

2023

## Book Series

- Adam Šmelko, Martin Kruliš, **Miroslav Kratochvíl**, Jiří Klepl, Jiří Mayer, Petr Šimunek. "Asteute Approach to Handling Memory Layouts of Regular Data Structures", Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 13777 LNCS - 507-528, [10.1007/978-3-031-22677-9\\_27](https://doi.org/10.1007/978-3-031-22677-9_27)

## Comment

- **Michael T Heneka**. "ApoE4 makes microglia trem(2)bling.", *Neuron*, 111 - (2) - 142-144, [10.1016/j.neuron.2022.12.032](https://doi.org/10.1016/j.neuron.2022.12.032)

## Journal

- **Maria Paulina Castelo Rueda**, Alessandra Zanon, Valentina Gilmozzi, Alexandros A. Lavdas, Athina Raftopoulou, **Sylvie Delcambre**, Fabiola Del Greco M, Christine Klein, **Anne Grünewald**, Peter P. Pramstaller, Andrew A. Hicks, Irene Pichler. "Molecular phenotypes of mitochondrial dysfunction in clinically non-manifesting heterozygous PRKN variant carriers", *Npj Parkinsons Disease*, 9 - (1) - [10.1038/s41531-023-00499-9](https://doi.org/10.1038/s41531-023-00499-9)
- **Laura de Nies**, **Valentina Galata**, **Camille Martin-Gallausiaux**, **Milena Despotovic**, **Susheel Bhanu Busi**, Chantal J. Snoeck, **Lea Delacour**, **Deepthi Poornima Budagavi**, **Cédric Christian Laczny**, **Janine Habier**, **Paula Cristina Lupu**, **Rashi Halder**, **Joëlle V. Fritz**, **Taina Marques**, Estelle Sandt, Marc Paul O'Sullivan, **Soumyabrata Ghosh**, **Venkata Satagopam**, CON-VINCE Consortium, **Rejko Krüger**, Guy Fargherazzi, Markus Ollert, Feng Q. Hefeng, **Patrick May**, **Paul Wilmes**. "Altered infective competence of the human gut microbiome in COVID-19", *Microbiome*, 11 - (1) - [10.1186/s40168-023-01472-7](https://doi.org/10.1186/s40168-023-01472-7)
- Martyna Marynowska, David Sillam-Dussès, Boris Untereiner, Dominika Klimek, Xavier Goux, **Piotr Gawron**, Yves Roisin, Philippe Delfosse, Magdalena Calusinska. "A holobiont approach towards polysaccharide degradation by the highly compartmentalised gut system of the soil-feeding higher termite *Labiotermes labralis*", *Bmc Genomics*, 24 - (1) - [10.1186/s12864-023-09224-5](https://doi.org/10.1186/s12864-023-09224-5)
- **Carlos Vega**, **Reinhard Schneider**, **Venkata Satagopam**. "Analysis: Flawed Datasets of Monkeypox Skin Images", *Journal Of Medical Systems*, 47 - (1) - [10.1007/s10916-023-01928-1](https://doi.org/10.1007/s10916-023-01928-1)
- **Anne Marie Hanff**, Christopher McCrum, **Armin Rauschenberger**, Gloria A. Aguayo, Maurice P. Zeegers, Anja K. Leist, **Rejko Krüger**. "Validation of a Parkinson's disease questionnaire-39-based functional mobility composite score (FMCS) in people with Parkinson's disease", *Parkinsonism And Related Disorders*, 112 - [10.1016/j.parkreldis.2023.105442](https://doi.org/10.1016/j.parkreldis.2023.105442)
- **Georgia D. Kaprou**, Abhay Andar, Pranjul Shah, **Carole L. Linster**, **Nicole Paczia**. "Novel design for a microfluidic-based platform for yeast replicative lifespan (RLS) analysis", *Micro And Nano Engineering*, 19 - [10.1016/j.mne.2023.100199](https://doi.org/10.1016/j.mne.2023.100199)
- Gabriel Sigmund, Marlene Ågerstrand, Alexandre Antonelli, Thomas Backhaus, Tomas Brodin, Miriam L. Diamond, Walter R. Erdelen, David C. Evers, Thilo Hofmann, Thorsten Hueffer, **Adelene Lai**, Joao P.M. Torres, Leonie Mueller, Allison L. Perrigo, Matthias C. Rillig, Andreas Schaeffer, Martin Scheringer, Kristin Schirmer, Ahmed Tlili, Anna Soehl, Rita Triebkorn, Penny Vlahos, Colette vom Berg, Zhanyun Wang, Ksenia J. Groh. "Addressing chemical pollution in biodiversity research", *Global Change Biology*, 29 - (12) - 3240-3255, [10.1111/gcb.16689](https://doi.org/10.1111/gcb.16689)
- **Sandro L. Pereira**, **Dajana Grossmann**, **Sylvie Delcambre**, **Andreas Hermann**, **Anne Grünewald**. "Novel insights into Parkin-mediated mitochondrial dysfunction and neuroinflammation in Parkinson's disease", *Current Opinion In Neurobiology*, 80 - [10.1016/j.conb.2023.102720](https://doi.org/10.1016/j.conb.2023.102720)
- **Axel Chemla**, **Giuseppe Arena**, **Claudia Saraiva**, **Clara Berenguer-Escuder**, **Dajana Grossmann**, **Anne Grünewald**, Christine Klein, Philip Seibler, **Jens C. Schwamborn**, **Rejko Krüger**. "Generation of two induced pluripotent stem cell lines and the corresponding isogenic controls from Parkinson's disease patients carrying the heterozygous mutations c.1290A > G (p.T351A) or c.2067A > G (p.T610A) in the RHO1 gene encoding Miro1", *Stem Cell Research*, 69 - [10.1016/j.scr.2023.103085](https://doi.org/10.1016/j.scr.2023.103085)
- Anna Schleimer, Alain C. Frantz, Lorraine Richart, Jörg Mehnert, Gono Semiadi, Johanna Rode-Margono, **Michel Mittelbronn**, Stuart Young, Frank Drygala. "Conservation prioritisation through genomic reconstruction of demographic histories applied to two endangered suids in the Malay Archipelago", *Diversity And Distributions*, 29 - (6) - 713-726, [10.1111/ddi.13689](https://doi.org/10.1111/ddi.13689)
- **Milena Despotovic**, **Laura de Nies**, **Susheel Bhanu Busi**, **Paul Wilmes**. "Reservoirs of antimicrobial resistance in the context of One Health", *Current Opinion In Microbiology*, 73 - [10.1016/j.mib.2023.102291](https://doi.org/10.1016/j.mib.2023.102291)
- Philippe Rocca-Serra, **Wei Gu**, Vassilios Ioannidis, Tooba Abbassi-Daloi, Salvador Capella-Gutierrez, Ishwar Chandramouliswaran, Andrea Splendiani, Tony Burdett, Robert T. Giessmann, David Henderson, Dominique Batista, Ibrahim Emam, Yojana Gadiya, Lucas Giovanni, Egon Willighagen, Chris Evelo, Alasdair J.G. Gray, Philip Gribbon, Nick Juty, **Danielle Welter**, Karsten Quast, Paul Peeters, Tom Plasterer, Colin Wood, Eelke van der Horst, Dorothy Reilly, Herman van Vlijmen, Serena Scollen, Allyson Lister, Milo Thurston, Ramon Granell, Susanna Assunta Sansone. "The FAIR Cookbook - the essential resource for and by FAIR doers", *Scientific Data*, 10 - (1) - 292, [10.1038/s41597-023-02166-3](https://doi.org/10.1038/s41597-023-02166-3)
- **Danielle Welter**, Nick Juty, Philippe Rocca-Serra, Fuqi Xu, David Henderson, **Wei Gu**, Jolanda Strubel, Robert T. Giessmann, Ibrahim Emam, Yojana Gadiya, Tooba Abbassi-Daloi, Ebtisam Alharbi, Alasdair J.G. Gray, Melanie Courtot, Philip Gribbon, Vassilios Ioannidis, Dorothy S. Reilly, Nick Lynch, Jan Willem Boiten, **Venkata Satagopam**, Carole Goble, Susanna Assunta Sansone, Tony Burdett. "FAIR in action - a flexible framework to guide FAIRification", *Scientific Data*, 10 - (1) - 291, [10.1038/s41597-023-02167-2](https://doi.org/10.1038/s41597-023-02167-2)
- Alfonso De Falco, Christophe M. Olinger, Barbara Klink, **Michel Mittelbronn**, Daniel Stieber. "Digital PCR cluster predictor: a universal R-package and shiny app for the automated analysis of multiplex digital PCR data", *Bioinformatics (Oxford, England)*, 39 - (5) - [10.1093/bioinformatics/btad282](https://doi.org/10.1093/bioinformatics/btad282)
- Marie Macnee, Eduardo Pérez-Palma, Tobias Brünger, Chiara Klöckner, Konrad Platzter, Arthur Stefanski, Ludovica Montanucci, Allan Bayat, Maximilian Radtke, Ryan L. Collins, Michael Talkowski, Daniel Blankenberg, Rikke S. Møller, Johannes R. Lemke, Michael Nothnagel, **Patrick May**, Dennis Lal. "CNV-ClinViewer: enhancing the clinical interpretation of large copy-number variants online", *Bioinformatics (Oxford, England)*, 39 - (5) - [10.1093/bioinformatics/btad290](https://doi.org/10.1093/bioinformatics/btad290)
- Christina Ising, **Michael T. Heneka**. "Chronic inflammation: a potential target in tauopathies", *The Lancet Neurology*, 22 - (5) - 371-373, [10.1016/S1474-4422\(23\)00116-3](https://doi.org/10.1016/S1474-4422(23)00116-3)
- Sascha Jung, Javier Arcos Hodar, **Antonio del Sol**. "Measuring biological age using a functionally interpretable multi-tissue RNA clock", *Aging Cell*, 22 - (5) - [10.1111/ace.13799](https://doi.org/10.1111/ace.13799)

- Hannes Manell, Qiujin Shen, Azazul Chowdhury, **Kirsten Roomp**, Iris Ciba, Daniel Weghuber, Masood Kamali-Moghaddam, Peter Bergsten, Anders Forslund. "Biomarker screening in children and adolescents reveals that CUB domain-containing protein 1 is associated with obesity and that hepatocyte growth factor is associated with weight gain", *Obesity Medicine*, 39 - [10.1016/j.obmed.2023.100481](https://doi.org/10.1016/j.obmed.2023.100481)
- Hans Peter H. Arp, **Dagny Aurich, Emma L. Schymanski**, Kerry Sims, Sarah E. Hale. "Avoiding the Next Silent Spring: Our Chemical Past, Present, and Future", *Environmental Science And Technology*, 57 - (16) - 6355-6359, [10.1021/acs.est.3c01735](https://doi.org/10.1021/acs.est.3c01735)
- Bob Biewer, Eric Rompen, **Michel Mittelbronn**, Gaël P. Hammer, Pascale Quatresooz, **Felix Kleine Borgmann**. "Effects of Minocycline Hydrochloride as an Adjuvant Therapy for a Guided Bone Augmentation Procedure in The Rat Calvarium", *Dentistry Journal*, 11 - (4) - [10.3390/dj11040092](https://doi.org/10.3390/dj11040092)
- Mikhail Raevskiy, Vladislav Yanvarev, Sascha Jung, **Antonio Del Sol**, Yulia A. Medvedeva. "Epi-Impute: Single-Cell RNA-seq Imputation via Integration with Single-Cell ATAC-seq", *International Journal Of Molecular Sciences*, 24 - (7) - [10.3390/ijms24076229](https://doi.org/10.3390/ijms24076229)
- Emadeldin Hassani, Isabel Spier, **Dheeraj R Bobbili**, Rana Aldisi, Hannah Klinkhammer, Friederike David, Nuria Duenas, Robert Huneburg, Claudia Perne, Joan Brunet, Gabriel Capella, Markus M Nothen, Andreas J Forstner, Andreas Mayr, Peter Krawitz, **Patrick May**, Stefan Aretz, Carlo Maj. "Clinically relevant combined effect of polygenic background, rare pathogenic germline variants, and family history on colorectal cancer incidence.", *Bmc Medical Genomics*, 16 - (1) - 42, [10.1186/s12920-023-01469-z](https://doi.org/10.1186/s12920-023-01469-z)
- Parisima Ghaffarian Zavarzadeh, **Zahra Abedi**. "Novel potential drugs for the treatment of primary open-angle glaucoma using protein-protein interaction network analysis", *Genomics And Informatics*, 21 - (1) - [10.5808/gi.22070](https://doi.org/10.5808/gi.22070)
- Maria Angeliki S. Pavlou, **Kartikeya Singh, Srikanth Ravichandran, Rashi Halder**, Nathalie Nicot, Cindy Birck, Luc Grandbarbe, **Antonio del Sol**, Alessandro Michelucci. "Transcriptional and Chromatin Accessibility Profiling of Neural Stem Cells Differentiating into Astrocytes Reveal Dynamic Signatures Affected under Inflammatory Conditions", *Cells*, 12 - (6) - [10.3390/cells12060948](https://doi.org/10.3390/cells12060948)
- Adrien Rougny, **Irina Balaur**, Augustin Luna, **Alexander Mazein**. "StonPy: a tool to parse and query collections of SBGN maps in a graph database", *Bioinformatics*, 39 - (3) - [10.1093/bioinformatics/btad100](https://doi.org/10.1093/bioinformatics/btad100)
- Rupsha Fraser, Aurelio Orta-Resendiz, **Alexander Mazein**, David Dockrell, Michaela Müller-Trutwin. "Severe COVID-19 versus multisystem inflammatory syndrome: comparing two critical outcomes of SARS-CoV-2 infection", *European Respiratory Review*, 32 - (167) - [10.1183/16000617.0197-2022](https://doi.org/10.1183/16000617.0197-2022)
- Jussara Dias, **Arthur N. Montanari**, Elbert E.N. Macau. "Power-grid vulnerability and its relation with network structure", *Chaos*, 33 - (3) - [10.1063/5.0137919](https://doi.org/10.1063/5.0137919)
- Leticia Soriano-Baguet, Dirk Brenner**. "Metabolism and epigenetics at the heart of T cell function.", *Trends In Immunology*, 44 - (3) - 231-244, [10.1016/j.it.2023.01.002](https://doi.org/10.1016/j.it.2023.01.002)
- Clemens Neudorfer, Konstantin Butenko, Simon Oxenford, Nanditha Rajamani, Johannes Achtzehn, Lukas Goede, Barbara Hollunder, Ana Sofia Rios, Lauren Hart, Jordy Tasserie, Kavisha B Fernando, T A Khoa Nguyen, Bassam Al-Fatly, Matteo Vissani, Michael Fox, R Mark Richardson, Ursula van Rienen, Andrea A Kuhn, **Andreas D Husch**, Enrico Opri, Till Dembek, Ningfei Li, Andreas Horn. "Lead-DBS v3.0: Mapping deep brain stimulation effects to local anatomy and global networks.", *Neuroimage*, 268 - 119862, [10.1016/j.neuroimage.2023.119862](https://doi.org/10.1016/j.neuroimage.2023.119862)
- Jade Brandani, Hannes Peter, Stilianos Fodelianakis, Tyler J Kohler, Massimo Bourquin, Gregoire Michoud, **Susheel Bhanu Busi**, Leila Ezzat, Stuart Lane, Tom J Battin. "Homogeneous Environmental Selection Structures the Bacterial Communities of Benthic Biofilms in Proglacial Floodplain Streams.", *Applied And Environmental Microbiology*, 89 - (3) - e0201022, [10.1128/aem.02010-22](https://doi.org/10.1128/aem.02010-22)
- Leticia Soriano-Baguet, Melanie Grusdat, Henry Kurniawan, Mohaned Benzarti, Carole Binsfeld, Anouk Ewen, Joseph Longworth, Lynn Bonetti, Luana Guerra, Davide G Franchina, Takumi Kobayashi, Veronika Horkova, Charlene Verschuere**, Sergio Helgueta, Deborah Gerard, Tushar H More, Antonia Henne, **Catherine Dostert, Sophie Farinelle**, Antoine Lesur, **Jean-Jacques Gerardy, Christian Jager, Michel Mittelbronn**, Lasse Sinkkonen, Karsten Hiller, Johannes Meiser, **Dirk Brenner**. "Pyruvate dehydrogenase fuels a critical citrate pool that is essential for Th17 cell effector functions.", *Cell Reports*, 42 - (3) - 112153, [10.1016/j.celrep.2023.112153](https://doi.org/10.1016/j.celrep.2023.112153)
- Charlotte Braatz, Max P Komes, Kishore Aravind Ravichandran, Matheus Garcia de Fragas, Angelika Griep, Stephanie Schwartz, Roisin M McManus, **Michael T Heneka**. "NLRP3-directed antisense oligonucleotides reduce microglial immunoactivities in vitro.", *Journal Of Neurochemistry*, [10.1111/jnc.15778](https://doi.org/10.1111/jnc.15778)
- Pierre-Emmanuel Sugier, Elise A Lucotte, Cloe Domenighetti, Matthew H Law, Mark M Iles, Kevin Brown, Christopher Amos, James D McKay, Rayjean J Hung, Mojgan Karimi, Delphine Bacq-Daian, Anne Boland-Auge, Robert Olaso, Jean-Francois Deleuze, Fabienne Lesueur, Evgenia Ostroumova, Ausrele Kesminiene, Florent de Vathaire, Pascal Guenel, Ashwin Ashok Kumar Sreelatha, Claudia Schulte, Sandeep Grover, **Patrick May, Dheeraj R Bobbili**, Milena Radivojkov-Blagojevic, Peter Lichtner, Andrew B Singleton, Dena G Hernandez, Connor Edsall, George D Mellick, Alexander Zimprich, Walter Pirker, Ekaterina Rogava, Anthony E Lang, Sulev Koks, Pille Taba, Suzanne Lesage, Alexis Brice, Jean-Christophe Corvol, Marie-Christine Chartier-Harlin, Eugenie Mutez, Kathrin Brockmann, Angela B Deutschland, Georges M Hadjigeorgiou, Efthimios Dardiotis, Leonidas Stefanis, Athina Maria Simiti, Enza Maria Valente, Simona Petrucci, Letizia Straniero, Anna Zecchinelli, Gianni Pezzoli, Laura Brighina, Carlo Ferrarese, Grazia Annesi, Andrea Quattrone, Monica Gagliardi, Hirotaka Matsuo, Akiyoshi Nakayama, Nobutaka Hattori, Kenya Nishioka, Sun Ju Chung, Yun Joong Kim, **Pierre Kolber**, Bart P C van de Warrenburg, Bastiaan R Bloem, Jan Aasly, Mathias Toft, Lasse Pihlstrom, Leonor Correia Guedes, Joaquim J Ferreira, Soraya Bardien, Jonathan Carr, Eduardo Tolosa, Mario Ezquerro, Pau Pastor, Monica Diez-Fairen, Karin Wirdefeldt, Nancy Pedersen, Caroline Ran, Andrea C Belin, Andreas Puschmann, Emil Ygland Rodstrom, Carl E Clarke, Karen E Morrison, Manuela Tan, Dimitri Krainc, Lena F Burbulla, Matt J Farrer, **Rejko Kruger**, Thomas Gasser, Manu Sharma, Therese Truong, Alexis Elbaz, EPITHYR consortium, Comprehensive Unbiased Risk Factor Assessment for Genetics and Environment in, Parkinson's Disease (Courage-PD) consortium. "Investigation of Shared Genetic Risk Factors Between Parkinson's Disease and Cancers.", *Movement Disorders*, 38 - (4) - 604-615, [10.1002/mds.29337](https://doi.org/10.1002/mds.29337)
- Susheel Bhanu Busi, Laura de Nies**, Paraskevi Pramateftaki, Massimo Bourquin, Tyler J Kohler, Leila Ezzat, Stilianos Fodelianakis, Gregoire Michoud, Hannes Peter, Michail Styllas, Matteo Tolosano, Vincent De Staercke, Martina Schon, **Valentina Galata, Paul Wilmes**, Tom Battin. "Glacier-Fed Stream Biofilms Harbor Diverse Resistomes and Biosynthetic Gene Clusters.", *Microbiology Spectrum*, 11 - (1) - e0406922, [10.1128/spectrum.04069-22](https://doi.org/10.1128/spectrum.04069-22)
- Jérôme Guitton, **Floriane Gavotto**, Emeline Cros-Perrial, Lars Petter Jordheim, Christelle Machon. "A Proposed Methodology to Deal with the Impact of In Vitro Cellular Matrix on the Analytical Performances of a Targeted Metabolomic LC-HRMS Method", *International Journal Of Molecular Sciences*, 24 - (4) - [10.3390/ijms24043770](https://doi.org/10.3390/ijms24043770)
- Emma L. Schymanski**. "FAIR Game", *The Analytical Scientist*, <https://hdl.handle.net/10993/54443>
- Lukas Henning, Henrike Antony, Annika Breuer, Julia Muller, Gerald Seifert, Etienne Audinat, Parmveer Singh, Frederic Brosseron, **Michael T Heneka**, Christian Steinhauser, Peter Bedner. "Reactive microglia are the major source of tumor necrosis factor alpha and contribute to astrocyte dysfunction and acute seizures in experimental temporal lobe epilepsy.", *Glia*, 71 - (2) - 168-186, [10.1002/glia.24265](https://doi.org/10.1002/glia.24265)
- Nicole J. Van Bergen, Karen Gunanayagam, Adam M. Bournazos, **Adhish S. Walvekar, Marc O. Warmoes**, Liana N. Semcesen, Sebastian Lunke, Shobhana Bommireddipalli, Tim Sikora, **Myrto Patraskaki**, Dean L. Jones, Denisse Garza, Dale Sebire, Samuel Gooley, Catriona A. McLean, Parm Naidoo, Mugil Rajasekaran, David A. Stroud, **Carole L. Linster**, Mathew Wallis, Sandra T. Cooper, John Christodoulou. "Severe NAD(P)HX Dehydratase (NAXD)

- Neurometabolic Syndrome May Present in Adulthood after Mild Head Trauma.", *International Journal Of Molecular Sciences*, 24 - (4) - [10.3390/ijms24043582](https://doi.org/10.3390/ijms24043582)
- Mária Mészáros, Thi Ha My Phan, Judit P. Vigh, Gergő Porkoláb, Anna Kocsis, Emese K. Páli, Tamás F. Polgár, Fruzsina R. Walter, **Silvia Bolognin**, **Jens C. Schwamborn**, Jeng-Shiung Jan, Mária A. Deli, Szilvia Veszelka. "Targeting Human Endothelial Cells with Glutathione and Alanine Increases the Crossing of a Polypeptide Nanocarrier through a Blood–Brain Barrier Model and Entry to Human Brain Organoids.", *Cells*, 12 - (3) - [10.3390/cells12030503](https://doi.org/10.3390/cells12030503)
  - Antonello E. Rigamonti, **Gianfranco Frigerio**, Diana Caroli, Alessandra De Col, Silvano G. Cella, Alessandro Sartorio, Silvia Fustinoni. "A Metabolomics-Based Investigation of the Effects of a Short-Term Body Weight Reduction Program in a Cohort of Adolescents with Obesity: A Prospective Interventional Clinical Study", *Nutrients*, 15 - (3) - [10.3390/nu15030529](https://doi.org/10.3390/nu15030529)
  - Nikiforos Alygizakis, Francois Lestremau, Pablo Gago-Ferrero, Rubén Gil-Solsona, Katarzyna Arturi, Juliane Hollender, **Emma L. Schymanski**, Valeria Dulio, Jaroslav Slobodnik, Nikolaos S. Thomaidis. "Towards a harmonized identification scoring system in LC-HRMS/MS based non-target screening (NTS) of emerging contaminants", *Trac - Trends In Analytical Chemistry*, 159 - [10.1016/j.trac.2023.116944](https://doi.org/10.1016/j.trac.2023.116944)
  - Eva-Juliane Vollstedt, Susen Schaaake, Katja Lohmann, Shalini Padmanabhan, Alexis Brice, Suzanne Lesage, Christelle Tesson, Marie Vidailhet, Isabel Wurster, Faycel Hentati, Anat Mirelman, Nir Giladi, Karen Marder, Cheryl Waters, Stanley Fahn, Meike Kasten, Norbert Bruggemann, Max Borsche, Tatiana Foroud, Eduardo Tolosa, Alicia Garrido, Grazia Annesi, Monica Gagliardi, Maria Bozi, Leonidas Stefanis, Joaquim J Ferreira, Leonor Correia Guedes, Micol Avenali, Simona Petrucci, Lorraine Clark, Ekaterina Y Fedotova, Natalya Y Abramycheva, Victoria Alvarez, Manuel Menendez-Gonzalez, Silvia Jesus Maestre, Pilar Gomez-Garre, Pablo Mir, Andrea Carmine Belin, Caroline Ran, Chin-Hsien Lin, Ming-Che Kuo, David Crosiers, Zbigniew K Wszolek, Owen A Ross, Joseph Jankovic, Kenya Nishioka, Manabu Funayama, Jordi Clarimon, Caroline H Williams-Gray, Marta Camacho, Mario Cornejo-Olivas, Luis Torres-Ramirez, Yih-Ru Wu, Guey-Jen Lee-Chen, Ana Morgadinho, Teeratom Pulkes, Pichet Termsarasab, Daniela Berg, Gregor Kuhlenbaumer, Andrea A Kuhn, Friederike Borngreber, Giuseppe de Michele, Anna De Rosa, Alexander Zimprich, Andreas Puschmann, George D Mellick, Jolanta Dorszewska, Jonathan Carr, Rosangela Ferese, Stefano Gambardella, Bruce Chase, Katerina Markopoulou, Wataru Satake, Tatsushi Toda, Malco Rossi, Marcelo Merello, Timothy Lynch, Diana A Olszewska, Shen-Yang Lim, Azlina Ahmad-Annuar, Ai Huey Tan, Bashayer Al-Mubarak, Hasmet Hanagasi, Dariusz Kozirowski, Sibel Ertan, Gencer Genc, Patricia de Carvalho Aguiar, Melinda Barkhuizen, Marcia M G Pimentel, Rachel Saunders-Pullman, Bart van de Warrenburg, Susan Bressman, Mathias Toft, Silke Appel-Cresswell, Anthony E Lang, Matej Skorvanek, Agnita J W Boon, **Rejko Kruger**, Esther M Sammler, Vitor Tumas, Bao-Rong Zhang, Gaetan Garraux, Sun Ju Chung, Yun Joong Kim, Juliane Winkelmann, Carolyn M Sue, Eng-King Tan, Joana Damasio, Peter Klivenyi, Vladimir S Kostic, David Arkadir, Mika Martikainen, Vanderci Borges, Jens Michael Hertz, Laura Brighina, Mariana Spitz, Oksana Suchowersky, Olaf Riess, Parimal Das, Brit Mollenhauer, Emilia M Gatto, Maria Skaalum Petersen, Nobutaka Hattori, Ruey-Meei Wu, Sergey N Illarionov, Enza Maria Valente, Jan O Aasly, Anna Aasly, Roy N Alcalay, Avner Thaler, Matthew J Farrer, Kathrin Brockmann, Jean-Christophe Corvol, Christine Klein, MJFF Global Genetic Parkinson's Disease Study Group. "Embracing Monogenic Parkinson's Disease: The MJFF Global Genetic PD Cohort.", *Movement Disorders*, 38 - (2) - 286-303, [10.1002/mds.29288](https://doi.org/10.1002/mds.29288)
  - **Piotr Gawron**, **Ewa Smula**, **Reinhard Schneider**, **Marek Ostaszewski**. "Exploration and comparison of molecular mechanisms across diseases using MINERVA Net.", *Protein Science*, 32 - (2) - e4565, [10.1002/pro.4565](https://doi.org/10.1002/pro.4565)
  - Rupsha Fraser, Aurelio Orta-Resendiz, **Alexander Mazein**, David H Dockrell. "Upper respiratory tract mucosal immunity for SARS-CoV-2 vaccines.", *Trends In Molecular Medicine*, 29 - (4) - 255-267, [10.1016/j.molmed.2023.01.003](https://doi.org/10.1016/j.molmed.2023.01.003)
  - **Emma L. Schymanski**, Stanislaus J. Schymansk. "Water science must be Open Science.", *Nature Water*, (1) - 4-6, <https://doi.org/10.1038/s44221-022-00014-z>
  - Gloria A Aguayo, Lu Zhang, Michel Vaillant, Moses Ngari, Magali Perquin, Valerie Moran, Laetitia Huiart, **Rejko Kruger**, Francisco Azuaje, Cyril Ferdynus, Guy Fagherazzi. "Machine learning for predicting neurodegenerative diseases in the general older population: a cohort study.", *Bmc Medical Research Methodology*, 23 - (1) - 8, [10.1186/s12874-023-01837-4](https://doi.org/10.1186/s12874-023-01837-4)
  - Ernesto Gargiulo, Elodie Viry, Pablo Elias Morande, Anne Largeot, Susanne Gonder, Feng Xian, Nikolaos Ioannou, Mohaned Benzarti, Felix Bruno Kleine Borgmann, **Michel Mittelbronn**, Gunnar Dittmar, Petr V Nazarov, Johannes Meiser, Basile Stamatopoulos, Alan G Ramsay, Etienne Moussay, Jerome Paggetti. "Extracellular Vesicle Secretion by Leukemia Cells In Vivo Promotes CLL Progression by Hampering Antitumor T-cell Responses.", *Blood Cancer Discovery*, 4 - (1) - 54-77, [10.1158/2643-3230.BCD-22-0029](https://doi.org/10.1158/2643-3230.BCD-22-0029)
  - Leila Moradiahgou, **Reinhard Schneider**, Bahram Maleki Zanjani, Taher Harkinezhad. "Comparative Computational Screening of Natural-Based Partial Agonists for PPARgamma Receptor.", *Medicinal Chemistry*, 19 - (6) - 594-618, [10.2174/1573406419666230103142021](https://doi.org/10.2174/1573406419666230103142021)
  - Vassilis Stratoulas, Rocío Ruiz, Shigeaki Kanatani, Ahmed M. Osman, Lily Keane, Jose A. Armengol, Antonio Rodríguez-Moreno, Adriana Natalia Murgoci, Irene García-Domínguez, Isabel Alonso-Bellido, Fernando González Ibáñez, Katherine Picard, Guillermo Vázquez-Cabrera, Mercedes Posada-Pérez, Nathalie Vernoux, Dario Tejera, Kathleen Grabert, Mathilde Cheray, Patricia González-Rodríguez, Eva M. Pérez-Villegas, Irene Martínez-Gallego, Alejandro Lastra-Romero, David Brodin, Javier Avila-Cariño, Yang Cao, Mikko Airavaara, Per Uhlén, **Michael T. Heneka**, Marie Ève Tremblay, Klas Blomgren, Jose L. Venero, Bertrand Joseph. "ARG1-expressing microglia show a distinct molecular signature and modulate postnatal development and function of the mouse brain", *Nature Neuroscience*, [10.1038/s41593-023-01326-3](https://doi.org/10.1038/s41593-023-01326-3)
  - **Kerstin Neininger**, Tamara Slosarek, Claudia Marx, Attila Wohlbrandt, Murali Sukumaran, **Wei Gu**, Gabriel Sieglerschmid, Erwin Böttinger, Andreas Kremer. "Interoperability for EU DSM: Implementation of CEF building blocks in the Smart4Health project - success stories and lessons learned", *F1000Research*, 12 - [10.12688/f1000research.128648.1](https://doi.org/10.12688/f1000research.128648.1)
  - **Michel Mittelbronn**. "Neurooncology: 2023 update", *Free Neuropathology*, 4 - [10.17879/freeneuropathology-2023-4692](https://doi.org/10.17879/freeneuropathology-2023-4692)
  - Courtney M. Kloske, Christopher J. Barnum, Andre F. Batista, Elizabeth M. Bradshaw, Adam M. Brickman, Guojun Bu, Jessica Dennison, Mary D. Gearon, Alison M. Goate, Christian Haass, **Michael T. Heneka**, William T. Hu, Lenique K.L. Huggins, Nahdia S. Jones, Radosveta Koldamova, Cynthia A. Lemere, Shane A. Liddelow, Edoardo Marcora, Samuel E. Marsh, Henrietta M. Nielsen, Kellen K. Petersen, Melissa Petersen, Stefanie D. Piña-Escudero, Wei Qiao Qiu, Yakeel T. Quiroz, Eric Reiman, Claire Sexton, Malú Gámez Tansey, Julia Tcw, Charlotte E. Teunissen, Betty M. Tijms, Rik van der Kant, Rebecca Wallings, Stacie C. Weninger, Whitney Wharton, Donna M. Wilcock, Tyler James Wishard, Susan L. Worley, Henrik Zetterberg, Maria C. Carrillo. "APOE and immunity: Research highlights", *Alzheimer'S And Dementia*, [10.1002/alz.13020](https://doi.org/10.1002/alz.13020)
  - Itzy E. Morales Pantoja, Lena Smirnova, Alysson R. Muotri, Karl J. Wahlin, Jeffrey Kahn, J. Lomax Boyd, David H. Gracias, Timothy D. Harris, Tzahi Cohen-Karni, Brain S. Caffo, Alexander S. Szalay, Fang Han, Donald J. Zack, Ralph Etienne-Cummings, Akwasi Akwaboah, July Carolina Romero, Dowlette Mary Alam El Din, Jesse D. Plotkin, Barton L. Paulhamus, Erik C. Johnson, Frederic Gilbert, J. Lowry Curley, Ben Cappiello, **Jens C. Schwamborn**, Eric J. Hill, Paul Roach, Daniel Tornero, Caroline Krall, Rheinalt Parri, Fenna Sillé, Andre Levchenko, Rabih E. Jabbour, Brett J. Kagan, Cynthia A. Berlinicke, Qi Huang, Alexandra Maertens, Kathrin Herrmann, Katya Tsaïoun, Raha Dastgheyb, Christa Whelan Habela, Joshua T. Vogelstein, Thomas Hartung. "First Organoid Intelligence (OI) workshop to form an OI community", *Frontiers In Artificial Intelligence*, 6 - [10.3389/frai.2023.1116870](https://doi.org/10.3389/frai.2023.1116870)

- Martin Ullrich, Nils Roth, Arne Kuderle, Robert Richer, Till Gladow, Heiko Gasner, Franz Marxreiter, **Jochen Klucken**, Bjoern M. Eskofier, Felix Kluge. "Fall Risk Prediction in Parkinson's Disease Using Real-World Inertial Sensor Gait Data", Ieee Journal Of Biomedical And Health Informatics, 27 - (1) - 319-328, [10.1109/JBHI.2022.3215921](https://doi.org/10.1109/JBHI.2022.3215921)
- Cinthia C. Alves, **Thais Arns**, Maria L. Oliveira, Philippe Moreau, Dinler A. Antunes, Erick C. Castelli, Celso T. Mendes-Junior, Silvana Giuliani, Eduardo A. Donadi. "Computational and atomistic studies applied to the understanding of the structural and behavioral features of the immune checkpoint HLA-G molecule and gene", Human Immunology, [10.1016/j.humimm.2023.01.004](https://doi.org/10.1016/j.humimm.2023.01.004)
- **Léon-Charles Tranchevent, Rashi Halder, Enrico Glaab**. "Systems level analysis of sex-dependent gene expression changes in Parkinson's disease.", Npj Parkinsons Disease, 9 - (1) - 8, [10.1038/s41531-023-00446-8](https://doi.org/10.1038/s41531-023-00446-8)
- Leonie Schumacher, Rédouane Slimani, Laimdota Zizmare, Jakob Ehlers, Felix Kleine Borgmann, Julia C. Fitzgerald, Petra Fallier-Becker, Anja Beckmann, Alexander Größmer, Carola Meier, Ali El-Ayoubi, Kavi Devraj, **Michel Mittelbronn**, Christoph Trautwein, Ulrike Naumann. "TGF-Beta Modulates the Integrity of the Blood Brain Barrier In Vitro, and Is Associated with Metabolic Alterations in Pericytes.", Biomedicines, 11 - (1) - [10.3390/biomedicines11010214](https://doi.org/10.3390/biomedicines11010214)
- Frederic Brosseron, Anne Maass, Luca Kleinedam, Kishore Aravind Ravichandran, Carl-Christian Kolbe, Steffen Wolfsgruber, Francesco Santarelli, Lisa M. Häslér, Róisín McManus, Christina Ising, Sandra Röske, Oliver Peters, Nicoleta-Carmen Cosma, Luisa-Sophie Schneider, Xiao Wang, Josef Priller, Eike J. Spruth, Slawek Altenstein, Anja Schneider, Klaus Fliessbach, Jens Wiltfang, Björn H. Schott, Katharina Buerger, Daniel Janowitz, Martin Dichgans, Robert Perneczky, Boris-Stephan Rauchmann, Stefan Teipel, Ingo Kilimann, Doreen Görß, Christoph Laske, Matthias H. Munk, Emrah Düzel, Renat Yakupow, Laura Dobisch, Coraline D. Metzger, Wenzel Glanz, Michael Ewers, Peter Dechent, John Dylan Haynes, Klaus Scheffler, Nina Roy, Ayda Rostamzadeh, Annika Spottke, Alfredo Ramirez, David Mengel, Matthis Synofzik, Mathias Jucker, Eicke Latz, Frank Jessen, Michael Wagner, **Michael T. Heneka**, the DELCODE study group. "Serum IL-6, sAXL, and YKL-40 as systemic correlates of reduced brain structure and function in Alzheimer's disease: results from the DELCODE study.", Alzheimers Research & Therapy, 15 - (1) - 13, [10.1186/s13195-022-01118-0](https://doi.org/10.1186/s13195-022-01118-0)
- Arianna Minoia, Luca Dalle Carbonare, **Jens Christian Schwamborn, Silvia Bolognin**, Maria Teresa Valenti. "Bone Tissue and the Nervous System: What Do They Have in Common?", Cells, 12 - (1) - [10.3390/cells12010051](https://doi.org/10.3390/cells12010051)
- Victoria Moiseeva, Andrés Cisneros, Valentina Sica, Oleg Deryagin, Yiwei Lai, Sascha Jung, Eva Andrés, Juan An, Jessica Segalés, Laura Ortet, Vera Lukesova, Giacomo Volpe, Alberto Benguria, Ana Dopazo, Salvador Aznar Benitah, Yasuteru Urano, **Antonio del Sol**, Miguel A. Esteban, Yasuyuki Ohkawa, Antonio L. Serrano, Eusebio Perdiguero, Pura Muñoz-Cánoves. "Senescence atlas reveals an aged-like inflamed niche that blunts muscle regeneration.", Nature, 613 - (7942) - 169-178, [10.1038/s41586-022-05535-x](https://doi.org/10.1038/s41586-022-05535-x)

## 2022

### Book

- **Muhammad Ali, Mariana Messias Ribeiro, Antonio Del Sol**. "Computational Methods to Identify Cell-Fate Determinants, Identity Transcription Factors, and Niche-Induced Signaling Pathways for Stem Cell Research.", Methods In Molecular Biology (Clifton, N.J.), 2471 - 83-109, [10.1007/978-1-0716-2193-6\\_4](https://doi.org/10.1007/978-1-0716-2193-6_4)

### Book Series

- **Carlos Vega, Miroslav Kratochvil, Venkata Satagopam, Reinhard Schneider**. "Translational Challenges of Biomedical Machine Learning Solutions in Clinical and Laboratory Settings", Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 13347 LNBI - 353-358, [10.1007/978-3-031-07802-6\\_30](https://doi.org/10.1007/978-3-031-07802-6_30)

### Case Reports

- Sergio Castro-Gomez, Julius Binder, Arndt-Hendrik Schievelkamp, **Michael Thomas Heneka**. "CNS Superficial Siderosis Mimicking a Motor Neuron Disease.", Brain Sciences, 12 - (11) - [10.3390/brainsci12111558](https://doi.org/10.3390/brainsci12111558)
- **Gabriela Novak**, Steven Finkbeiner, Gaia Skibinski, **Michela Bernini, Cristina Donato, Alexander Skupin**. "Generation of two human induced pluripotent stem cell lines from fibroblasts of Parkinson's disease patients carrying the ILE368ASN mutation in PINK1 (LCSBI002) and the R275W mutation in Parkin (LCSBI004).", Stem Cell Research, 61 - 102765, [10.1016/j.scr.2022.102765](https://doi.org/10.1016/j.scr.2022.102765)

### Editorial

- **Jochen G Schneider**, Effie Tozzo, Manu V Chakravarthy. "Editorial: Mitochondrial Biology and Its Role in Metabolic Diseases.", Frontiers In Endocrinology, 13 - 944728, [10.3389/fendo.2022.944728](https://doi.org/10.3389/fendo.2022.944728)
- **Wei Gu**, Panyong Rong, Martin Hofmann-Apitius, **Venkata Satagopam**. "Editorial: Digital Innovation and Data-Driven Research in Neurodegenerative Diseases.", Frontiers In Neurology, 13 - 961847, [10.3389/fneur.2022.961847](https://doi.org/10.3389/fneur.2022.961847)

### Journal

- Melissa Schepers, Dean Paes, Assia Tiane, Ben Rombaut, Elisabeth Piccart, Lieve van Veggel, Pascal Gervois, Esther Wolfs, Ivo Lambrichts, Chiara Brullo, Olga Bruno, Ernesto Fedele, Roberta Ricciarelli, Charles Ffrench-Constant, Marie E Bechler, Pauline van Schaik, Wia Baron, Evy Lefevere, **Kobi Wasner, Anne Grunewald**, Catherine Verfaillie, Paulien Baeten, Bieke Broux, Paul Wieringa, Niels Hellings, Jos Prickaerts, Tim Vanmierlo. "Selective PDE4 subtype inhibition provides new opportunities to intervene in neuroinflammatory versus myelin damaging hallmarks of multiple sclerosis.", Brain Behavior And Immunity, 109 - 1-22, [10.1016/j.bbi.2022.12.020](https://doi.org/10.1016/j.bbi.2022.12.020)
- **B J Kunath, O Hickl, P Queiros, C Martin-Gallausiaux, L A Lebrun, R Halder, C C Laczny**, T S B Schmidt, M R Hayward, D Becher, **A Heintz-Buschart, C de Beaufort**, P Bork, **P May, P Wilmes**. "Alterations of oral microbiota and impact on the gut microbiome in type 1 diabetes mellitus revealed by integrated multi-omic analyses.", Microbiome, 10 - (1) - 243, [10.1186/s40168-022-01435-4](https://doi.org/10.1186/s40168-022-01435-4)
- Dietlind L Gerloff, Elena I Iliina, Camille Cialini, Uxue Mata Salcedo, **Michel Mittelbronn**, Tanja Muller. "Prediction and verification of glycosyltransferase activity by bioinformatics analysis and protein engineering.", Star Protocols, 4 - (1) - 101905, [10.1016/j.xpro.2022.101905](https://doi.org/10.1016/j.xpro.2022.101905)

- Marie Macnee, Eduardo Perez-Palma, Javier A Lopez-Rivera, Alina Ivaniuk, **Patrick May**, Rikke S Moller, Dennis Lal. "Data-driven historical characterization of epilepsy-associated genes.", *European Journal Of Paediatric Neurology*, 42 - 82-87, [10.1016/j.ejpn.2022.12.005](https://doi.org/10.1016/j.ejpn.2022.12.005)
- Dilek Mercan, **Michael Thomas Heneka**. "The Contribution of the Locus Coeruleus-Noradrenaline System Degeneration during the Progression of Alzheimer's Disease.", *Biology-Basel*, 11 - (12) - [10.3390/biology11121822](https://doi.org/10.3390/biology11121822)
- Stanislav Iakhno, **Francesco Delogu**, Ozgun C O Umu, Nils P Kjos, Ingrid M Hakenasen, Liv T Mydland, Margareth Overland, Henning Sorum. "Longitudinal analysis of the faecal microbiome in pigs fed Cyberlindnera jadinii yeast as a protein source during the weanling period followed by a rapeseed- and faba bean-based grower-finisher diet.", *Animal Microbiome*, 4 - (1) - 62, [10.1186/s42523-022-00217-5](https://doi.org/10.1186/s42523-022-00217-5)
- Joanne Trinh, Andrew A Hicks, Inke R Konig, **Sylvie Delcambre**, Theresa Luth, Susen Schaake, **Kobi Wasner**, **Jenny Ghelfi**, Max Borsche, Carles Vilarino-Guell, Faycel Hentati, Elisabeth L Germer, Peter Bauer, Masashi Takanashi, Vladimir Kostic, Anthony E Lang, Norbert Bruggemann, Peter P Pramstaller, Irene Pichler, Alex Rajput, Nobutaka Hattori, Matthew J Farrer, Katja Lohmann, Hansi Weissensteiner, **Patrick May**, Christine Klein, **Anne Grunewald**. "Mitochondrial DNA heteroplasmy distinguishes disease manifestation in PINK1/PRKN-linked Parkinson's disease.", *Brain*, [10.1093/brain/awac464](https://doi.org/10.1093/brain/awac464)
- Kyra Geyer, Steffen Hartmann, **Randolph R. Singh**, Tobias J. Erb. "Multiple Functions of the Type II Thioesterase Associated with the Phosloactomycin Polyketide Synthase.", *Biochemistry*, 61 - (23) - 2662-2671, [10.1021/acs.biochem.2c00234](https://doi.org/10.1021/acs.biochem.2c00234)
- Maria Pires Pacheco, Jimmy Ji, Tessy Prohaska, **Maria Moscardo Garcia**, Thomas Sauter. "scFASTCORMICS: A Contextualization Algorithm to Reconstruct Metabolic Multi-Cell Population Models from Single-Cell RNAseq Data.", *Metabolites*, 12 - (12) - [10.3390/metabo12121211](https://doi.org/10.3390/metabo12121211)
- S. Reif, S. Schubert, J. Stiefel, F. Husri, T. Fischlein, M. Pauschinger, **J. Klucken**. "Supporting patients with heart failure with digital therapeutics—A pilot study in Germany.", *Digital Health*, 8 - 20552076221143899, [10.1177/20552076221143899](https://doi.org/10.1177/20552076221143899)
- Eric Bach, **Emma L. Schymanski**, Juho Rousu. "Joint structural annotation of small molecules using liquid chromatography retention order and tandem mass spectrometry data", *Nature Machine Intelligence*, 4 - (12) - 1224-1237, [10.1038/s42256-022-00577-2](https://doi.org/10.1038/s42256-022-00577-2)
- **Irina Balaur**, Ludovic Roy, Vasundra Toure, **Alexander Mazein**, Charles Auffray. "GraphML-SBGN bidirectional converter for metabolic networks.", *Journal Of Integrative Bioinformatics*, 19 - (4) - [10.1515/jib-2022-0030](https://doi.org/10.1515/jib-2022-0030)
- Aurélie Fischer, Nolwenn Badier, Lu Zhang, Abir Elbéji, **Paul Wilmes**, Pauline Oustric, Charles Benoy, Markus Ollert, Guy Fagherazzi. "Long COVID Classification: Findings from a Clustering Analysis in the Predi-COVID Cohort Study.", *International Journal Of Environmental Research And Public Health*, 19 - (23) - [10.3390/ijerph192316018](https://doi.org/10.3390/ijerph192316018)
- Maria G. Balta, Olav Schreurs, **Rashi Halder**, Thomas M. Küntziger, Frank Sætre, Inger Johanne S. Blix, Espen S. Bækkevold, **Enrico Glaab**, Karl Schenck. "RvD1n-3 DPA Downregulates the Transcription of Pro-Inflammatory Genes in Oral Epithelial Cells and Reverses Nuclear Translocation of Transcription Factor p65 after TNF- $\alpha$  Stimulation.", *International Journal Of Molecular Sciences*, 23 - (23) - [10.3390/ijms232314878](https://doi.org/10.3390/ijms232314878)
- Fubo Cheng, Wenxu Zheng, Chang Liu, **Peter Antony Barbuti**, Libo Yu-Taeger, Nicolas Casadei, Jeannette Huebener-Schmid, Jakob Admard, Karsten Boldt, Katrin Junger, Marius Ueffing, Henry Houlden, Manu Sharma, **Rejko Kruger**, Kathrin Grundmann-Hauser, Thomas Ott, Olaf Riess. "Intronic enhancers of the human SNCA gene predominantly regulate its expression in brain in vivo.", *Science Advances*, 8 - (47) - eabq6324, [10.1126/sciadv.abq6324](https://doi.org/10.1126/sciadv.abq6324)
- Heiko Gassner, Jana Friedrich, Alisa Masuch, Jelena Jukic, Sabine Stallforth, Martin Regensburger, Franz Marxreiter, Jurgen Winkler, **Jochen Klucken**. "The Effects of an Individualized Smartphone-Based Exercise Program on Self-defined Motor Tasks in Parkinson Disease: Pilot Interventional Study.", *Jmir Rehabilitation And Assistive Technologies*, 9 - (4) - e38994, [10.2196/38994](https://doi.org/10.2196/38994)
- **Menglin Zheng**, Bingqing Xie, **Satoshi Okawa**, Soon Yi Liew, Hongkui Deng, **Antonio Del Sol**. "A single cell-based computational platform to identify chemical compounds targeting desired sets of transcription factors for cellular conversion.", *Stem Cell Reports*, 18 - (1) - 131-144, [10.1016/j.stemcr.2022.10.013](https://doi.org/10.1016/j.stemcr.2022.10.013)
- Rosa C Paolicelli, Amanda Sierra, Beth Stevens, Marie-Eve Tremblay, Adriano Aguzzi, Bahareh Ajami, Ido Amit, Etienne Audinat, Ingo Bechmann, Mariko Bennett, Frederick Bennett, Alain Bessis, Knut Biber, Staci Bilbo, Mathew Blurton-Jones, Erik Boddeke, Dora Brites, Bert Brone, Guy C Brown, Oleg Butovsky, Monica J Carson, Bernardo Castellano, Marco Colonna, Sally A Cowley, Colm Cunningham, Dimitrios Davalos, Philip L De Jager, Bart de Strooper, Adam Denes, Bart J L Eggen, Ukpong Eyo, Elena Galea, Sonia Garel, Florent Ginhoux, Christopher K Glass, Ozgun Gokce, Diego Gomez-Nicola, Berta Gonzalez, Siamon Gordon, Manuel B Graeber, Andrew D Greenhalgh, Pierre Gressens, Melanie Greter, David H Gutmann, Christian Haass, **Michael T Heneka**, Frank L Heppner, Soyong Hong, David A Hume, Steffen Jung, Helmut Kettenmann, Jonathan Kipnis, Ryuta Koyama, Greg Lemke, Marina Lynch, Ania Majewska, Marzia Malcangio, Tarja Malm, Renzo Mancuso, Takahiro Masuda, Michela Matteoli, Barry W McColl, Veronique E Miron, Anna Victoria Molofsky, Michelle Monje, Eva Mracsko, Agnes Nadjar, Jonas J Neher, Urte Neniskyte, Harald Neumann, Mami Noda, Bo Peng, Francesca Peri, V Hugh Perry, Phillip G Popovich, Clare Pridans, Josef Priller, Marco Prinz, Davide Ragozzino, Richard M Ransohoff, Michael W Salter, Anne Schaefer, Dorothy P Schafer, Michal Schwartz, Mikael Simons, Cody J Smith, Wolfgang J Streit, Tuan Leng Tay, Li-Huei Tsai, Alexei Verkhratsky, Rommy von Bernhardi, Hiroaki Wake, Valerie Wittamer, Susanne A Wolf, Long-Jun Wu, Tony Wyss-Coray. "Microglia states and nomenclature: A field at its crossroads.", *Neuron*, 110 - (21) - 3458-3483, [10.1016/j.neuron.2022.10.020](https://doi.org/10.1016/j.neuron.2022.10.020)
- **Oskar Hickl**, **Pedro Queirós**, **Paul Wilmes**, **Patrick May**, Anna Heintz-Buschart. "binny: an automated binning algorithm to recover high-quality genomes from complex metagenomic datasets.", *Briefings In Bioinformatics*, 23 - (6) - [10.1093/bib/bbac431](https://doi.org/10.1093/bib/bbac431)
- Remi Stevelink, Dania Al-Toma, Floor E. Jansen, Herm J. Lamberink, Ali A. Asadi-Pooya, Mohsen Farzadaghi, Gonçalo Cação, Sita Jayalakshmi, Anuja Patil, Çiğdem Özkara, Enay Aydin, Joanna Gesche, Christoph P. Beier, Linda J. Stephen, Martin J. Brodie, Gopeekrishnan Unnithan, Ashalatha Radhakrishnan, Julia Höfler, Eugen Trinkka, **Roland Krause**, Emanuele Cerulli Irelli, Carlo Di Bonaventura, Jerzy P. Szaflarski, Laura E. Hernández-Vanegas, Monica L. Moya-Alfaro, Yingying Zhang, Dong Zhou, Nicola Pietrafusa, Nicola Specchio, Giorgi Japaridze, Sándor Beniczky, Mubeen Janmohamed, Patrick Kwan, Marte Syvertsen, Kaja K. Selmer, Bernd J. Vorderwülbecke, Martin Holtkamp, Lakshminarayananapuram G. Viswanathan, Sanjib Sinha, Betül Baykan, Ebru Altindag, Felix von Podewils, Juliane Schulz, Udaya Seneviratne, Alejandro Vilorio-Alebesque, Ioannis Karakis, Wendyl J. D'Souza, Josemir W. Sander, Bobby P.C. Koeleman, Willem M. Otte, Kees P.J. Braun, EpiPGX Consortium. "Individualised prediction of drug resistance and seizure recurrence after medication withdrawal in people with juvenile myoclonic epilepsy: A systematic review and individual participant data meta-analysis.", *Eclinicalmedicine*, 53 - 101732, [10.1016/j.eclinm.2022.101732](https://doi.org/10.1016/j.eclinm.2022.101732)
- Holger R Roth, Ziyue Xu, Carlos Tor-Diez, Ramon Sanchez Jacob, Jonathan Zember, Jose Molto, Wenqi Li, Sheng Xu, Baris Turkbey, Evrim Turkbey, Dong Yang, Ahmed Harouni, Nicola Rieke, Shishuai Hu, Fabian Isensee, Claire Tang, Qinji Yu, **Jan Solter**, Tong Zheng, Vitali Liauchuk, Ziqi Zhou, Jan Hendrik Moltz, Bruno Oliveira, Yong Xia, Klaus H Maier-Hein, Qikai Li, Andreas Husch, Luyang Zhang, Vassili Kovalev, Li Kang, Alessa Hering, Joao L Vilaca, Mona Flores, Daguang Xu, Bradford Wood, Marius George Linguraru. "Rapid artificial intelligence solutions in a pandemic-The COVID-19-20 Lung CT Lesion Segmentation Challenge.", *Medical Image Analysis*, 82 - 102605, [10.1016/j.media.2022.102605](https://doi.org/10.1016/j.media.2022.102605)

- **Corrado Ameli, Sonja Fixemer, David S. Bouvier, Alexander Skupin.** "PaFS: A Parameter-Free Segmentation Approach for 3D Fluorescent Images", *Sn Computer Science*, 3 - (6) - [10.1007/s42979-022-01265-z](https://doi.org/10.1007/s42979-022-01265-z)
- Sumaiya Iqbal, Tobias Brunger, Eduardo Perez-Palma, Marie Macnee, Andreas Brunklaus, Mark J Daly, Arthur J Campbell, David Hoksza, **Patrick May**, Dennis Lal. "Delineation of functionally essential protein regions for 242 neurodevelopmental genes.", *Brain*, 146 - (2) - 519-533, [10.1093/brain/awac381](https://doi.org/10.1093/brain/awac381)
- Bob Biewer, Felix Kleine-Borgmann, Gael P Hammer, Eric H Rompen, **Michel Mittelbronn**, Pascale Quatresouz. "Effects of Low Intensity Pulsed Ultrasound Stimulation on the Temporal Dynamics of Irradiated Bone Tissue Healing: A Histomorphometric Study in Rabbits.", *International Journal Of Molecular Sciences*, 23 - (20) - [10.3390/ijms232012426](https://doi.org/10.3390/ijms232012426)
- **Mehri Baniasadi**, Mikkel V Petersen, **Jorge Goncalves**, Andreas Horn, **Vanja Vlasov, Frank Hertel, Andreas Husch.** "DBSegment: Fast and robust segmentation of deep brain structures considering domain generalization.", *Human Brain Mapping*, 44 - (2) - 762-778, [10.1002/hbm.26097](https://doi.org/10.1002/hbm.26097)
- Frank Menger, Alberto Celma, **Emma L Schymanski**, Foon Yin Lai, Lubertus Bijlsma, Karin Wiberg, Felix Hernandez, Juan V Sancho, Lutz Ahrens. "Enhancing spectral quality in complex environmental matrices: Supporting suspect and non-target screening in zebra mussels with ion mobility.", *Environment International*, 170 - 107585, [10.1016/j.envint.2022.107585](https://doi.org/10.1016/j.envint.2022.107585)
- **Lukas Pavelka, Armin Rauschenberger, Zied Landoulsi, Sinthuja Pachchek, Taina Marques, Clarissa P C Gomes, Enrico Glaab, Patrick May, Rejko Kruger**, NCER-PD Consortium. "Body-First Subtype of Parkinson's Disease with Probable REM-Sleep Behavior Disorder Is Associated with Non-Motor Dominant Phenotype.", *Journal Of Parkinsons Disease*, 12 - (8) - 2561-2573, [10.3233/JPD-223511](https://doi.org/10.3233/JPD-223511)
- **Menglin Zheng, Satoshi Okawa**, Miren Bravo, Fei Chen, Maria-Luz Martinez-Chantar, **Antonio Del Sol.** "ChemPert: mapping between chemical perturbation and transcriptional response for non-cancer cells.", *Nucleic Acids Research*, 51 - (D1) - D877-89, [10.1093/nar/gkac862](https://doi.org/10.1093/nar/gkac862)
- Makoto Kiyose, Eva Herrmann, Jenny Roesler, Pia S Zeiner, Joachim P Steinbach, Marie-Therese Forster, Karl H Plate, Marcus Czabanka, Thomas J Vogl, Elke Hattingen, **Michel Mittelbronn**, Stella Breuer, Patrick N Harter, Simon Bernatz. "MR imaging profile and histopathological characteristics of tumour vasculature, cell density and proliferation rate define two distinct growth patterns of human brain metastases from lung cancer.", *Neuroradiology*, 65 - (2) - 275-285, [10.1007/s00234-022-03060-2](https://doi.org/10.1007/s00234-022-03060-2)
- **Arthur N. Montanari**, Leandro Freitas, **Daniele Proverbio, Jorge Gonçalves.** "Functional observability and subspace reconstruction in nonlinear systems", *Physical Review Research*, 4 - (4) - [10.1103/PhysRevResearch.4.043195](https://doi.org/10.1103/PhysRevResearch.4.043195)
- **Sonia Sabate-Soler, Michela Bernini, Jens Christian Schwamborn.** "Immunocompetent brain organoids—microglia enter the stage", *Progress In Biomedical Engineering*, 4 - (4) - [10.1088/2516-1091/ac8dcf](https://doi.org/10.1088/2516-1091/ac8dcf)
- St Elmo Wilken, Mathieu Besancon, **Miroslav Kratochvil**, Chilperic Armel Foko Kuete, **Christophe Trefois, Wei Gu**, Oliver Ebenhoh. "Interrogating the effect of enzyme kinetics on metabolism using differentiable constraint-based models.", *Metabolic Engineering*, 74 - 72-82, [10.1016/j.ymben.2022.09.002](https://doi.org/10.1016/j.ymben.2022.09.002)
- **Laura de Nies, Susheel Bhanu Busi, Benoit Josef Kunath, Patrick May, Paul Wilmes.** "Mobilome-driven segregation of the resistome in biological wastewater treatment.", *Elife*, 11 - [10.7554/eLife.81196](https://doi.org/10.7554/eLife.81196)
- **Velma T E Aho, Marek Ostaszewski, Camille Martin-Gallausiaux, Cedric C Laczny, Jochen G Schneider, Paul Wilmes.** "SnapShot: The Expobiome Map.", *Cell Host & Microbe*, 30 - (9) - 1340-1340.e1, [10.1016/j.chom.2022.08.015](https://doi.org/10.1016/j.chom.2022.08.015)
- **Paul Wilmes, Camille Martin-Gallausiaux, Marek Ostaszewski, Velma T E Aho, Polina V Novikova, Cedric C Laczny, Jochen G Schneider.** "The gut microbiome molecular complex in human health and disease.", *Cell Host & Microbe*, 30 - (9) - 1201-1206, [10.1016/j.chom.2022.08.016](https://doi.org/10.1016/j.chom.2022.08.016)
- Daniel Weiss, **Zied Landoulsi, Patrick May**, Manu Sharma, Michael Schupbach, Hana You, Jean Christophe Corvol, Steffen Paschen, Ann-Kristin Helmers, Michael Barbe, Gereon Fink, Andrea A Kuhn, Christine Brefel Courbon, Lars Wojtecki, Philippe Damier, Valerie Fraix, Jean-Luc Houeto, Jean Regis, Friederike Sixel-Doring, Marcus O Pinsker, Stephane Thobois, Alireza Gharabaghi, Valerie Stoker, Lars Timmermann, Alfons Schitzler, Paul Krack, Marie Vidailhet, Gunther Deuschl, **Rejko Kruger.** "Genetic stratification of motor and QoL outcomes in Parkinson's disease in the EARLYSTIM study.", *Parkinsonism & Related Disorders*, 103 - 169-174, [10.1016/j.parkreldis.2022.08.025](https://doi.org/10.1016/j.parkreldis.2022.08.025)
- Johanna Kruger, Julian Schubert, Josua Kegele, Audrey Labalme, Miaomiao Mao, Jacqueline Heighway, Guiscard Seeböhm, Pu Yan, Mahmoud Koko, Kezban Aslan-Kara, Hande Caglayan, Bernhard J Steinhoff, Yvonne G Weber, Pascale Keo-Kosal, Samuel F Berkovic, Michael S Hildebrand, Steven Petrou, **Roland Krause, Patrick May**, Gaetan Lesca, Snezana Maljevic, Holger Lerche. "Loss-of-function variants in the KCNQ5 gene are implicated in genetic generalized epilepsies.", *Ebiomedicine*, 84 - 104244, [10.1016/j.ebiom.2022.104244](https://doi.org/10.1016/j.ebiom.2022.104244)
- **Daniele Proverbio, Arthur N Montanari, Alexander Skupin, Jorge Goncalves.** "Buffering variability in cell regulation motifs close to criticality.", *Physical Review E*, 106 - (3) - L032402, [10.1103/PhysRevE.106.L032402](https://doi.org/10.1103/PhysRevE.106.L032402)
- Oluyomi M Adesoji, Herbert Schulz, **Patrick May, Roland Krause**, Holger Lerche, Michael Nothnagel, ILAE Consortium on Complex Epilepsies. "Benchmarking of univariate pleiotropy detection methods applied to epilepsy.", *Human Mutation*, 43 - (9) - 1314-1332, [10.1002/humu.24417](https://doi.org/10.1002/humu.24417)
- Tobias Brunger, Eduardo Perez-Palma, Ludovica Montanucci, Michael Nothnagel, Rikke S Moller, Stephanie Schorge, Sameer Zuberi, Joseph Symonds, Johannes R Lemke, Andreas Brunklaus, Stephen F Traynelis, **Patrick May**, Dennis Lal. "Conserved patterns across ion channels correlate with variant pathogenicity and clinical phenotypes.", *Brain*, 146 - (3) - 923-934, [10.1093/brain/awac305](https://doi.org/10.1093/brain/awac305)
- Alexander Heinz, Yannic Nonnenmacher, Antonia Henne, Michelle-Amirah Khalil, Ketlin Bejkollari, Catherine Dostert, Shirin Hosseini, Oliver Goldmann, Wei He, Roberta Palorini, Charlene Verschuere, Martin Korte, Ferdinando Chiaradonna, Eva Medina, **Dirk Brenner**, Karsten Hiller. "Itaconate controls its own synthesis via feedback-inhibition of reverse TCA cycle activity at IDH2.", *Biochimica Et Biophysica Acta-Molecular Basis Of Disease*, 1868 - (12) - 166530, [10.1016/j.bbadis.2022.166530](https://doi.org/10.1016/j.bbadis.2022.166530)
- Laura Mahoney-Sanchez, Hind Bouchaoui, **Ibrahim Boussaad**, Aurelie Jonneaux, Kelly Timmerman, Olivier Berdeaux, Scott Ayton, **Rejko Kruger**, James A Duce, David Devos, Jean-Christophe Devedjian. "Alpha synuclein determines ferroptosis sensitivity in dopaminergic neurons via modulation of ether-phospholipid membrane composition.", *Cell Reports*, 40 - (8) - 111231, [10.1016/j.celrep.2022.111231](https://doi.org/10.1016/j.celrep.2022.111231)
- **Muhammad Ali, Oihane Uriarte Huarte**, Tony Heurtaux, **Pierre Garcia, Beatriz Pardo Rodriguez, Kamil Grzyb, Rashi Halder, Alexander Skupin, Manuel Buttini, Enrico Glaab.** "Single-Cell Transcriptional Profiling and Gene Regulatory Network Modeling in Tg2576 Mice Reveal Gender-Dependent Molecular Features Preceding Alzheimer-Like Pathologies.", *Molecular Neurobiology*, [10.1007/s12035-022-02985-2](https://doi.org/10.1007/s12035-022-02985-2)
- Sandeep Grover, Ashwin Ashok Kumar Sreelatha, Lasse Pihlstrom, Cloé Domenighetti, Claudia Schulte, Pierre-Emmanuel Sugier, Milena Radivojkov-Bлагоjevic, Peter Lichtner, Océane Mohamed, Berta Portugal, **Zied Landoulsi, Patrick May, Dheeraj Bobbili**, Connor Edsall, Felix Bartusch, Maximilian Hanussek, Jens Krüger, Dena G. Hernandez, Cornelis Blauwendraat, George D. Mellick, Alexander Zimprich, Walter Pirker, Manuela Tan, Ekaterina Rogava, Anthony Lang, Sulev Koks, Pille Taba, Suzanne Lesage, Alexis Brice, Jean-Christophe Corvol, Marie-Christine Chartier-Harlin, Eugenie Mutez, Kathrin Brockmann, Angela B. Deutschländer, Georges M. Hadjigeorgiou, Efthimos Dardiotis, Leonidas Stefanis, Athina Maria Simiti, Enza Maria Valente, Simona Petrucci, Letizia Straniero, Anna Zecchinelli, Gianni Pezzoli, Laura Brighina, Carlo Ferrarese, Grazia Annesi, Andrea Quattrone, Monica

- Gagliardi, Lena F. Burbulla, Hirotaka Matsuo, Yusuke Kawamura, Nobutaka Hattori, Kenya Nishioka, Sun Ju Chung, Yun Joong Kim, **Lukas Pavelka**, Bart P.C. van de Warrenburg, Bastiaan R. Bloem, Andrew B. Singleton, Jan Aasly, Mathias Toft, Leonor Correia Guedes, Joaquim J. Ferreira, Soraya Bardien, Jonathan Carr, Eduardo Tolosa, Mario Ezquerro, Pau Pastor, Monica Diez-Fairen, Karin Wirdefeldt, Nancy L. Pedersen, Caroline Ran, Andrea C. Belin, Andreas Puschmann, Clara Hellberg, Carl E. Clarke, Karen E. Morrison, Dimitri Krainc, Matt J. Farrer, **Rejko Kruger**, Alexis Elbaz, Thomas Gasser, Manu Sharma, and the Comprehensive Unbiased Risk Factor Assessment for Genetics and, Environment in Parkinson's Disease (COURAGE-PD) Consortium. "Genome-wide Association and Meta-analysis of Age at Onset in Parkinson Disease: Evidence From the COURAGE-PD Consortium.", *Neurology*, 99 - (7) - E698-E710, [10.1212/WNL.0000000000200699](https://doi.org/10.1212/WNL.0000000000200699)
- **Jesus Fuentes, Jorge Goncalves**. "Renyi Entropy in Statistical Mechanics.", *Entropy*, 24 - (8) - [10.3390/e24081080](https://doi.org/10.3390/e24081080)
  - Alexandra Leer, **Beatriz Garcia Santa Cruz, Frank Hertel**, Klaus Peter Koch, **Rene Peter Bremm**. "Design of an experimental platform for gait analysis with ActiSense and StereoPi", *Current Directions In Biomedical Engineering*, 8 - (2) - 572-575, [10.1515/cdbme-2022-1146](https://doi.org/10.1515/cdbme-2022-1146)
  - Aurélie Fischer, Lu Zhang, Abir Elbéji, **Paul Wilmes**, Pauline Oustric, Therese Staub, Petr V Nazarov, Markus Ollert, Guy Fagherazzi. "Long COVID Symptomatology After 12 Months and Its Impact on Quality of Life According to Initial Coronavirus Disease 2019 Disease Severity.", *Open Forum Infectious Diseases*, 9 - (8) - ofac397, [10.1093/ofid/ofac397](https://doi.org/10.1093/ofid/ofac397)
  - Ramon Diaz-Uriarte, **Elisa Gómez de Lope**, Rosalba Giugno, Holger Fröhlich, Petr V. Nazarov, Isabel A. Nepomuceno-Chamorro, **Armin Rauschenberger, Enrico Glaab**. "Ten quick tips for biomarker discovery and validation analyses using machine learning.", *Plos Computational Biology*, 18 - (8) - e1010357, [10.1371/journal.pcbi.1010357](https://doi.org/10.1371/journal.pcbi.1010357)
  - Tony Heurtaux, **David S. Bouvier**, Alexandre Benani, Sergio Helgueta Romero, Katrin B. M. Frauenknecht, **Michel Mittelbronn, Lasse Sinkkonen**. "Normal and Pathological NRF2 Signalling in the Central Nervous System.", *Antioxidants*, 11 - (8) - [10.3390/antiox11081426](https://doi.org/10.3390/antiox11081426)
  - Ebtisam Alharbi, Yojana Gadiya, David Henderson, Andrea Zaliani, Alejandra Delfin-Rossaro, Anne Cambon-Thomsen, Manfred Kohler, Gesa Witt, **Danielle Welter**, Nick Juty, Caroline Jay, Ola Engkvist, Carole Goble, Dorothy S Reilly, **Venkata Satagopam**, Vassilios Ioannidis, **Wei Gu**, Philip Gribbon. "Selection of data sets for FAIRification in drug discovery and development: Which, why, and how?", *Drug Discovery Today*, 27 - (8) - 2080-2085, [10.1016/j.drudis.2022.05.010](https://doi.org/10.1016/j.drudis.2022.05.010)
  - Melanie Vausort, Magdalena Niedolistek, Andrew I Lumley, Marta Okninska, Aleksandra Paterek, Michal Maczewski, **Xiangyi Dong, Christian Jager, Carole L Linster**, Przemyslaw Leszek, Yvan Devaux. "Regulation of N6-Methyladenosine after Myocardial Infarction.", *Cells*, 11 - (15) - [10.3390/cells11152271](https://doi.org/10.3390/cells11152271)
  - Nicole J Van Bergen, **Adhish S Walvekar, Myrto Patraskaki**, Tim Sikora, **Carole L Linster**, John Christodoulou. "Clinical and biochemical distinctions for a metabolite repair disorder caused by NAXD or NAXE deficiency.", *Journal Of Inherited Metabolic Disease*, 45 - (6) - 1028-1038, [10.1002/jimd.12541](https://doi.org/10.1002/jimd.12541)
  - **Emma L. Schymanski**. "Global Challenges: Opening up Chemistry, Pandemics, and Air Pollution", *Acs Environmental Au*, 2 - (4) - 287-289, [10.1021/acsenvironau.2c00032](https://doi.org/10.1021/acsenvironau.2c00032)
  - Yolanda Pires-Afonso, Arnaud Muller, **Kamil Grzyb**, Anais Oudin, Yahaya A Yabo, Carole Sousa, Andrea Scafidi, Aurelie Poli, Antonio Cosma, **Rashi Halder, Djaili Coowar**, Anna Golebiewska, **Alexander Skupin**, Simone P Niclou, Alessandro Michelucci. "Elucidating tumour-associated microglia/macrophage diversity along glioblastoma progression and under ACOD1 deficiency.", *Molecular Oncology*, 16 - (17) - 3167-3191, [10.1002/1878-0261.13287](https://doi.org/10.1002/1878-0261.13287)
  - **Begona Talavera Andujar, Dagny Aurich, Velma T E Aho, Randolph R Singh**, Tiejun Cheng, Leonid Zaslavsky, Evan E Bolton, Brit Mollenhauer, **Paul Wilmes, Emma L Schymanski**. "Studying the Parkinson's disease metabolome and exposome in biological samples through different analytical and cheminformatics approaches: a pilot study.", *Analytical And Bioanalytical Chemistry*, 414 - (25) - 7399-7419, [10.1007/s00216-022-04207-z](https://doi.org/10.1007/s00216-022-04207-z)
  - Cloe Domenighetti, Venceslas Douillard, Pierre-Emmanuel Sugier, Ashwin Ashok Kumar Sreelatha, Claudia Schulte, Sandeep Grover, **Patrick May, Dheeraj R Bobbili**, Milena Radivojkov-Blagojevic, Peter Lichtner, Andrew B Singleton, Dena G Hernandez, Connor Edsall, Pierre-Antoine Gourraud, George D Mellick, Alexander Zimprich, Walter Pirker, Ekaterina Rogaeva, Anthony E Lang, Sulev Koks, Pille Taba, Suzanne Lesage, Alexis Brice, Jean-Christophe Corvol, Marie-Christine Chartier-Harlin, Eugénie Mutez, Kathrin Brockmann, Angela B Deutschlander, Georges M Hadjigeorgiou, Efthimos Dardiotis, Leonidas Stefanis, Athina Maria Simitsi, Enza Maria Valente, Simona Petrucci, Stefano Duga, Letizia Straniero, Anna Zecchinelli, Gianni Pezzoli, Laura Brighina, Carlo Ferrarese, Grazia Annesi, Andrea Quattrone, Monica Gagliardi, Hirotaka Matsuo, Akiyoshi Nakayama, Nobutaka Hattori, Kenya Nishioka, Sun Ju Chung, Yun Joong Kim, **Pierre Kolber**, Bart P C van de Warrenburg, Bastiaan R Bloem, Jan Aasly, Mathias Toft, Lasse Pihlstrom, Leonor Correia Guedes, Joaquim J Ferreira, Soraya Bardien, Jonathan Carr, Eduardo Tolosa, Mario Ezquerro, Pau Pastor, Monica Diez-Fairen, Karin Wirdefeldt, Nancy L Pedersen, Caroline Ran, Andrea C Belin, Andreas Puschmann, Emil Ygland Rodstrom, Carl E Clarke, Karen E Morrison, Manuela Tan, Dimitri KraincMD, Lena F Burbulla, Matt J Farrer, **Rejko Kruger**, Thomas Gasser, Manu Sharma, Nicolas Vince, Alexis Elbaz, Comprehensive Unbiased Risk Factor Assessment for Genetics and Environment in, Parkinson's Disease (Courage-PD) Consortium. "The Interaction between HLA-DRB1 and Smoking in Parkinson's Disease Revisited.", *Movement Disorders*, 37 - (9) - 1929-1937, [10.1002/mds.29133](https://doi.org/10.1002/mds.29133)
  - Maria G Balta, Olav Schreurs, Trond V Hansen, Jorn E Tungen, Anders Vik, **Enrico Glaab**, Thomas M Kuntziger, Karl Schenck, Espen S Baekkevold, Inger Johanne S Blix. "Expression and function of resolvin RvD1n-3 DPA receptors in oral epithelial cells.", *European Journal Of Oral Sciences*, 130 - (4) - e12883, [10.1111/eos.12883](https://doi.org/10.1111/eos.12883)
  - **Atte Aalto, François Lamoline, Jorge Gonçalves**. "Linear system identifiability from single-cell data", *Systems & Control Letters*, 165 - [10.1016/j.sysconle.2022.105287](https://doi.org/10.1016/j.sysconle.2022.105287)
  - **Carlos Vega, Piotr Gawron, Jacek Lebioda, Valentin Grouès, Piotr Matyjaszczyk, Claire Pauly, Ewa Smula, Rejko Krüger, Reinhard Schneider, Venkata Satagopam**. "Smart Scheduling (SMASCH): multi-appointment scheduling system for longitudinal clinical research studies.", *Jamia Open*, 5 - (2) - ooac038, [10.1093/jamiaopen/ooac038](https://doi.org/10.1093/jamiaopen/ooac038)
  - **Pauline Mencke, Zoe Hanss, Javier Jarazo, Francois Massart**, Arkadiusz Rybicki, Elizabet Petkovski, **Enrico Glaab, Ibrahim Boussaad**, Vincenzo Bonifati, **Jens Christian Schwamborn**, Wim Mandemakers, **Rejko Kruger**. "Generation of isogenic control DJ-1-delP GC13 for the genetic Parkinson's disease-patient derived iPSC line DJ-1-delP (LCSBi008-A-1).", *Stem Cell Research*, 62 - 102815, [10.1016/j.scr.2022.102815](https://doi.org/10.1016/j.scr.2022.102815)
  - Leila Ezzat, Stilianos Fodelianakis, Tyler J Kohler, Massimo Bourquin, Jade Brandani, **Susheel Bhanu Busi**, Daniele Daffonchio, Vincent De Staercke, Ramona Marasco, Gregoire Michoud, Emmy Oppliger, Hannes Peter, Paraskevi Pramateftaki, Martina Schon, Michail Styllas, Virginia Tadei, Matteo Tolosano, Tom J Battin. "Benthic Biofilms in Glacier-Fed Streams from Scandinavia to the Himalayas Host Distinct Bacterial Communities Compared with the Streamwater.", *Applied And Environmental Microbiology*, 88 - (12) - e0042122, [10.1128/aem.00421-22](https://doi.org/10.1128/aem.00421-22)
  - **Daniele Proverbio, Françoise Kemp, Stefano Magni**, Leslie Ogorzaly, Henry-Michel Cauchie, **Jorge Gonçalves, Alexander Skupin, Atte Aalto**. "Model-based assessment of COVID-19 epidemic dynamics by wastewater analysis.", *Science Of The Total Environment*, 827 - 154235, [10.1016/j.scitotenv.2022.154235](https://doi.org/10.1016/j.scitotenv.2022.154235)
  - Varun S Sharma, Andrea Fossati, Rodolfo Ciuffa, Marija Buljan, **Evan G Williams**, Zhen Chen, Wenguang Shao, Patrick G A Pedrioli, Anthony W Purcell, Maria Rodriguez Martinez, Jiangning Song, Matteo Manica, Ruedi Aebersold, Chen Li. "PCfun: a hybrid computational framework for systematic

- characterization of protein complex function.", Briefings In Bioinformatics, 23 - (4) - [10.1093/bib/bbac239](https://doi.org/10.1093/bib/bbac239)
- Joseph A Charbonnet, Carrie A McDonough, Feng Xiao, Trever Schwichtenberg, Dunning Cao, Sarit Kaserzon, Kevin V Thomas, Pradeep Dewapriya, Benjamin J Place, **Emma L Schymanski**, Jennifer A Field, Damian E Helbling, Christopher P Higgins. "Communicating Confidence of Per- and Polyfluoroalkyl Substance Identification via High-Resolution Mass Spectrometry.", Environmental Science & Technology Letters, 9 - (6) - 473-481, [10.1021/acs.estlett.2c00206](https://doi.org/10.1021/acs.estlett.2c00206)
  - Yizhou Hu, Yiwen Jiang, Jinan Behnan, **Mariana Messias Ribeiro**, Chrysoula Kalantzi, Ming-Dong Zhang, Daohua Lou, Martin Haring, Nilesh Sharma, **Satoshi Okawa**, **Antonio Del Sol**, Igor Adameyko, Mikael Svensson, Oscar Persson, Patrik Ernfors. "Neural network learning defines glioblastoma features to be of neural crest perivascular or radial glia lineages.", Science Advances, 8 - (23) - eabm6340, [10.1126/sciadv.abm6340](https://doi.org/10.1126/sciadv.abm6340)
  - **G Arena**, K Sharma, **G Agyeah**, **R Kruger**, **A Grunewald**, J C Fitzgerald. "Neurodegeneration and Neuroinflammation in Parkinson's Disease: a Self-Sustained Loop.", Current Neurology And Neuroscience Reports, 22 - (8) - 427-440, [10.1007/s11910-022-01207-5](https://doi.org/10.1007/s11910-022-01207-5)
  - Massimo Bourquin, **Susheel Bhanu Busi**, Stilianos Fodelianakis, Hannes Peter, Alex Washburne, Tyler J Kohler, Leila Ezzat, Gregoire Michoud, **Paul Wilmes**, Tom J Battin. "The microbiome of cryospheric ecosystems.", Nature Communications, 13 - (1) - 3087, [10.1038/s41467-022-30816-4](https://doi.org/10.1038/s41467-022-30816-4)
  - Joanne Trinh, **Emma L. Schymanski**, **Semra Smajic**, Meike Kasten, Esther Sammler, **Anne Grunewald**. "Molecular mechanisms defining penetrance of LRRK2-associated Parkinson's disease", Medizinische Genetik, 34 - (2) - 103-116, [10.1515/medgen-2022-2127](https://doi.org/10.1515/medgen-2022-2127)
  - Francesca Bowring, Jessica Welch, Charlotte Woodward, Christine Lo, Michael Lawton, Patricia Sulzer, Anne Marie Hanff, **Rejko Kruger**, Inga Liepelt-Scarfone, Michele T. Hu. "Exploration of whether socioeconomic factors affect the results of priority setting partnerships: updating the top 10 research priorities for the management of Parkinson's in an international setting", Bmj Open, 12 - (6) - [10.1136/bmjopen-2021-049530](https://doi.org/10.1136/bmjopen-2021-049530)
  - Tyler J Kohler, Stilianos Fodelianakis, Gregoire Michoud, Leila Ezzat, Massimo Bourquin, Hannes Peter, **Susheel Bhanu Busi**, Paraskevi Pramateftaki, Nicola Deluigi, Michail Styllas, Matteo Tolosano, Vincent de Staercke, Martina Schon, Jade Brandani, Ramona Marasco, Daniele Daffonchio, **Paul Wilmes**, Tom J Battin. "Glacier shrinkage will accelerate downstream decomposition of organic matter and alters microbiome structure and function.", Global Change Biology, 28 - (12) - 3846-3859, [10.1111/gcb.16169](https://doi.org/10.1111/gcb.16169)
  - Shadrack J. Barnabas, Timo Böhme, Stephen K. Boyer, Matthias Irmer, Christoph Ruttkies, Ian Wetherbee, **Todor Kondic**, **Emma L. Schymanski**, Lutz Weber. "Extraction of chemical structures from literature and patent documents using open access chemistry toolkits: a case study with PFAS", Digital Discovery, (1) - 490, [10.1039/d2dd00019a](https://doi.org/10.1039/d2dd00019a)
  - Gunter Hoglinger, Claudia Schulte, Wolfgang H Jost, Alexander Storch, Dirk Voitalla, **Rejko Kruger**, Bjorn Falkenburger, Kathrin Brockmann. "GBA-associated PD: chances and obstacles for targeted treatment strategies.", Journal Of Neural Transmission, 129 - (9) - 1219-33, [10.1007/s00702-022-02511-7](https://doi.org/10.1007/s00702-022-02511-7)
  - Mark Corbett, Ravi Ramessur, David Marshall, **Marcio L Acencio**, **Marek Ostaszewski**, Ines A Barbosa, Nick Dand, Paola Di Meglio, Salma Haddad, Andreas H M Jensen, Witte Koopmann, Satveer K Mahil, Seher Rahmatulla, Joe Rastrick, Jake Saklatvala, Stephan Weidinger, Kath Wright, Kilian Eyerich, Jonathan N Barker, Matladi Ndlovu, Curdin Conrad, Lone Skov, Catherine H Smith, BIOMAP consortium. "Biomarkers of systemic treatment response in people with psoriasis: a scoping review.", British Journal Of Dermatology, 187 - (4) - 494-506, [10.1111/bjd.21677](https://doi.org/10.1111/bjd.21677)
  - Niklas Schwarz, Simone Seiffert, Manuela Pendziwiat, Annika Verena Rademacher, Tobias Brunger, Ulrike B S Hedrich, Paul B Augustijn, Hartmut Baier, Allan Bayat, Francesca Bisulli, Russell J Buono, Ben Zeev Bruria, Michael G Doyle, Renzo Guerrini, Gali Heimer, Michele Iacomino, Hugh Kearney, Karl Martin Klein, Ioanna Kousiappa, Wolfram S Kunz, Holger Lerche, Laura Licchetta, Ebba Lohmann, Raffaella Minardi, Marie McDonald, Sarah Montgomery, Lejla Mulahasanovic, Renske Oegema, Barel Ortal, Savvas S Papacostas, Francesca Ragona, Tiziana Granata, Phillip S Reif, Felix Rosenow, Annick Rothschild, Paolo Scudieri, Pasquale Striano, Paolo Tinuper, George A Tanteles, Annalisa Vetro, Felix Zahnert, Ethan M Goldberg, Federico Zara, Dennis Lal, **Patrick May**, Hiltrud Muhle, Ingo Helbig, Yvonne Weber. "Spectrum of Phenotypic, Genetic, and Functional Characteristics in Patients With Epilepsy With KCNC2 Pathogenic Variants.", Neurology, 98 - (20) - E2046-E2059, [10.1212/WNL.0000000000000660](https://doi.org/10.1212/WNL.0000000000000660)
  - **Adelene Lai**, Alex M Clark, Beate I Escher, Marc Fernandez, Leah R McEwen, Zhenyu Tian, Zhanyun Wang, **Emma L Schymanski**. "The Next Frontier of Environmental Unknowns: Substances of Unknown or Variable Composition, Complex Reaction Products, or Biological Materials (UVCBs).", Environmental Science & Technology, 56 - (12) - 7448-7466, [10.1021/acs.est.2c00321](https://doi.org/10.1021/acs.est.2c00321)
  - Martin Lang, **Anne Grunewald**, Peter P Pramstaller, Andrew A Hicks, Irene Pichler. "A genome on shaky ground: exploring the impact of mitochondrial DNA integrity on Parkinson's disease by highlighting the use of cybrid models.", Cellular And Molecular Life Sciences, 79 - (5) - 283, [10.1007/s00018-022-04304-3](https://doi.org/10.1007/s00018-022-04304-3)
  - **Takumi Kobayashi**, **Dirk Brenner**. "A FAsT contribution: Adipocytes rewire their metabolism to acquire immune functions.", Cell Metabolism, 34 - (5) - 656-657, [10.1016/j.cmet.2022.04.007](https://doi.org/10.1016/j.cmet.2022.04.007)
  - Wei He, Antonia Henne, Mario Lauterbach, Eike Geissmar, Fabian Nikolka, Celia Kho, Alexander Heinz, **Catherine Dostert**, **Melanie Grusdat**, **Thekla Cordes**, Janika Harm, Oliver Goldmann, **Anouk Ewen**, **Charlene Verschueren**, Julia Blay-Cadanet, Robert Geffers, Hendrikus Garritsen, Manfred Kneiling, Christian K Holm, Christian M Metallo, Eva Medina, Zeinab Abdullah, Eicke Latz, **Dirk Brenner**, **Karsten Hiller**. "Mesaconate is synthesized from itaconate and exerts immunomodulatory effects in macrophages.", Nature Metabolism, 4 - (5) - 524-533, [10.1038/s42255-022-00565-1](https://doi.org/10.1038/s42255-022-00565-1)
  - F Chen, W A M Elgaher, M Winterhoff, K Bussow, F H Waqas, E Graner, Y Pires-Afonso, L Casares Perez, L de la Vega, N Sahini, L Czichon, W Zobl, T Zillinger, M Shehata, S Pleschka, H Bahre, C Falk, **A Michelucci**, S Schuchardt, W Blankenfeldt, A K H Hirsch, F Pessler. "Citraconate inhibits ACOD1 (IRG1) catalysis, reduces interferon responses and oxidative stress, and modulates inflammation and cell metabolism.", Nature Metabolism, 4 - (5) - 534-546, [10.1038/s42255-022-00577-x](https://doi.org/10.1038/s42255-022-00577-x)
  - **Egle Danileviciute**, **Ni Zeng**, Christophe M Capelle, **Nicole Paczia**, Mark A Gillespie, **Henry Kurniawan**, Mohaned Benzarti, Myriam P Merz, **Djalil Coowar**, Sabrina Fritah, Daniela Maria Vogt Weisenhorn, **Gemma Gomez Giro**, **Melanie Grusdat**, Alexandre Baron, Coralie Guerin, **Davide G Franchina**, Cathy Leonard, Olivia Domingues, Sylvie Delhalle, Wolfgang Wurst, Jonathan D Turner, **Jens Christian Schwamborn**, **Johannes Meiser**, **Rejko Kruger**, Jeff Ranish, **Dirk Brenner**, **Carole L Linster**, **Rudi Balling**, Markus Ollert, Feng Q Hefeng. "PARK7/DJ-1 promotes pyruvate dehydrogenase activity and maintains Treg homeostasis during ageing.", Nature Metabolism, 4 - (5) - 589-607, [10.1038/s42255-022-00576-y](https://doi.org/10.1038/s42255-022-00576-y)
  - Ravi Ramessur, Mark Corbett, David Marshall, **Marcio L Acencio**, Ines A Barbosa, Nick Dand, Paola Di Meglio, Salma Haddad, Andreas H M Jensen, Witte Koopmann, Satveer K Mahil, **Marek Ostaszewski**, Seher Rahmatulla, Joe Rastrick, Jake Saklatvala, Stephan Weidinger, Kath Wright, Kilian Eyerich, Matladi Ndlovu, Jonathan N Barker, Lone Skov, Curdin Conrad, Catherine H Smith, BIOMAP consortium. "Biomarkers of disease progression in people with psoriasis: a scoping review.", British Journal Of Dermatology, 187 - (4) - 481-493, [10.1111/bjd.21627](https://doi.org/10.1111/bjd.21627)
  - **Pauline Mencke**, **Ibrahim Boussaad**, Gizem Onal, Anneke J A Kievit, Agnita J W Boon, Wim Mandemakers, Vincenzo Bonifati, **Rejko Kruger**. "Generation and characterization of a genetic Parkinson's disease-patient derived iPSC line DJ-1-delP (LCSBI008-A).", Stem Cell Research, 62 - 102792, [10.1016/j.scr.2022.102792](https://doi.org/10.1016/j.scr.2022.102792)



- **Kobi Wasner, Semra Smajic, Jenny Ghelfi, Sylvie Delcambre, Cesar A Prada-Medina, Evelyn Knappe, Giuseppe Arena, Patrycja Mulica, Gideon Agyeah, Aleksandar Rakovic, Ibrahim Boussaad, Katja Badanjak, Jochen Ohnmacht, Jean-Jacques Gerardy, Masashi Takanashi, Joanne Trinh, Michel Mittelbronn, Nobutaka Hattori, Christine Klein, Paul Antony, Philip Seibler, Malte Spielmann, Sandro L Pereira, Anne Grunewald.** "Parkin Deficiency Impairs Mitochondrial DNA Dynamics and Propagates Inflammation.", *Movement Disorders*, 37 - (7) - 1405-1415, [10.1002/mds.29025](https://doi.org/10.1002/mds.29025)
- **Susheel Bhanu Busi, Massimo Bourquin, Stilianos Fodelianakis, Gregoire Michoud, Tyler J Kohler, Hannes Peter, Paraskevi Pramateftaki, Michail Styllas, Matteo Tolosano, Vincent De Staercke, Martina Schon, Laura de Nies, Ramona Marasco, Daniele Daffonchio, Leila Ezzat, Paul Wilmes, Tom J Battin.** "Genomic and metabolic adaptations of biofilms to ecological windows of opportunity in glacier-fed streams.", *Nature Communications*, 13 - (1) - 2168, [10.1038/s41467-022-29914-0](https://doi.org/10.1038/s41467-022-29914-0)
- **Christophe M. Capelle, Séverine Ciré, Olivia Domingues, Isabelle Ernens, Fanny Hedin, Aurélie Fischer, Chantal J. Snoeck, Wim Ammerlaan, Maria Konstantinou, Kamil Grzyb, Alexander Skupin, Cara L. Carty, Christiane Hilger, Georges Gilson, Aljosa Celebic, Paul Wilmes, Antonio Del Sol, Ian M. Kaplan, Fay Betsou, Tamir Abdelrahman, Antonio Cosma, Michel Vaillant, Guy Fagherazzi, Markus Ollert, Feng Q. Hefeng.** "Combinatorial analysis reveals highly coordinated early-stage immune reactions that predict later antiviral immunity in mild COVID-19 patients.", *Cell Reports Medicine*, 3 - (4) - 100600, [10.1016/j.xcrm.2022.100600](https://doi.org/10.1016/j.xcrm.2022.100600)
- **Lars Tonges, Carsten Buhmann, Stephan Klebe, Jochen Klucken, Eun Hae Kwon, Thomas Muller, David J Pedrosa, Nils Schroter, Peter Riederer, Paul Lingor.** "Blood-based biomarker in Parkinson's disease: potential for future applications in clinical research and practice.", *Journal Of Neural Transmission*, 129 - (9) - 1201-1217, [10.1007/s00702-022-02498-1](https://doi.org/10.1007/s00702-022-02498-1)
- **Gianfranco Frigerio, Camilla Moruzzi, Rosa Mercadante, Emma L. Schymanski, Silvia Fustinoni.** "Development and Application of an LC-MS/MS Untargeted Exposomics Method with a Separated Pooled Quality Control Strategy.", *Molecules*, 27 - (8) - [10.3390/molecules27082580](https://doi.org/10.3390/molecules27082580)
- **Hana Brunhoferova, Silvia Venditti, Cédric C. Laczny, Laura Lebrun, Joachim Hansen.** "Bioremediation of 27 Micropollutants by Symbiotic Microorganisms of Wetland Macrophytes", *Sustainability*, 14 - (7) - [10.3390/su14073944](https://doi.org/10.3390/su14073944)
- **Anna Schleimer, Lorraine Richart, Frank Drygala, François Casabianca, Oscar Maestrini, Hannah Weigand, Chantal Schwartz, Michel Mittelbronn, Alain C. Frantz.** "Introgressive hybridisation between domestic pigs (*Sus scrofa domestica*) and endemic Corsican wild boars (*S. s. meridionalis*): effects of human-mediated interventions.", *Heredity*, 128 - (4) - 279-90, [10.1038/s41437-022-00517-1](https://doi.org/10.1038/s41437-022-00517-1)
- **Christophe M Capelle, Anna Chen, Ni Zeng, Alexandre Baron, Kamil Grzyb, Thais Arns, Alexander Skupin, Markus Ollert, Feng Q Hefeng.** "Stress hormone signalling inhibits Th1 polarization in a CD4 T-cell-intrinsic manner via mTORC1 and the circadian gene PER1.", *Immunology*, 165 - (4) - 428-44, [10.1111/imm.13448](https://doi.org/10.1111/imm.13448)
- **Fikile Mhlongo, Maria Lorena Cordero-Maldonado, Alexander D Crawford, David Katerere, Maxleene Sandasi, Anna C Hattingh, Trevor C Koekemoer, Maryna van de Venter, Alvaro M Viljoen.** "Evaluation of the wound healing properties of South African medicinal plants using zebrafish and in vitro bioassays.", *Journal Of Ethnopharmacology*, 286 - 114867, [10.1016/j.jep.2021.114867](https://doi.org/10.1016/j.jep.2021.114867)
- **Ciaran Campbell, Mark McCormack, Sonn Patel, Caragh Stapleton, Dheeraj Bobbili, Roland Krause, Chantal Depondt, Graeme J Sills, Bobby P Koeleman, Pasquale Striano, Federico Zara, Josemir W Sander, Holger Lerche, Wolfram S Kunz, Kari Stefansson, Hreinn Stefansson, Colin P Doherty, Erin L Heinzen, Ingrid E Scheffer, David B Goldstein, Terence O'Brien, David Cotter, Samuel F Berkovic, Sanjay M Sisodiya, Norman Delanty, Gianpiero L Cavalleri, EpiPGX Consortium.** "A pharmacogenomic assessment of psychiatric adverse drug reactions to levetiracetam.", *Epilepsia*, 63 - (6) - 1563-1570, [10.1111/epi.17228](https://doi.org/10.1111/epi.17228)
- **Sonja Fixemer, Corrado Ameli, Gael Hammer, Luis Salamanca, Oihane Uriarte Huarte, Chantal Schwartz, Jean-Jacques Gerardy, Naguib Mechawar, Alexander Skupin, Michel Mittelbronn, David S Bouvier.** "Microglia phenotypes are associated with subregional patterns of concomitant tau, amyloid-beta and alpha-synuclein pathologies in the hippocampus of patients with Alzheimer's disease and dementia with Lewy bodies.", *Acta Neuropathologica Communications*, 10 - (1) - 36, [10.1186/s40478-022-01342-7](https://doi.org/10.1186/s40478-022-01342-7)
- **Rick Helmus, Bas van de Velde, Andrea M. Brunner, Thomas L. ter Laak, Annemarie P. van Wezel, Emma L. Schymanski.** "patRoos 2.0: Improved non-target analysis workflows including automated transformation product screening", *Journal Of Open Source Software*, 71 - (7) - 4029, [10.21105/joss.04029](https://doi.org/10.21105/joss.04029)
- **Nicolas Malvaux, Fanette Defraigne, Styliani Bartziali, Camille Bellora, Kathleen Mommaerts, Fay Betsou, Anne Schuhmacher.** "In Vitro Comparative Study of Platelets Treated with Two Pathogen-Inactivation Methods to Extend Shelf Life to 7 Days.", *Pathogens*, 11 - (3) - [10.3390/pathogens11030343](https://doi.org/10.3390/pathogens11030343)
- **Sonia Sabate-Soler, Sarah Louise Nickels, Claudia Saraiva, Emanuel Berger, Ugne Dubonyte, Kyriaki Barmpa, Yan Jun Lan, Tsukasa Kouno, Javier Jarazo, Graham Robertson, Jafar Sharif, Haruhiko Koseki, Christian Thome, Jay W Shin, Sally A Cowley, Jens C Schwamborn.** "Microglia integration into human midbrain organoids leads to increased neuronal maturation and functionality.", *Glia*, 70 - (7) - 1267-1288, [10.1002/glia.24167](https://doi.org/10.1002/glia.24167)
- **Carolin Gabbert, Inke R Konig, Theresa Luth, Beke Kolms, Meike Kasten, Eva-Juliane Vollstedt, Alexander Balck, Anne Grunewald, Christine Klein, Joanne Trinh.** "Coffee, smoking and aspirin are associated with age at onset in idiopathic Parkinson's disease.", *Journal Of Neurology*, 269 - (8) - 4195-4203, [10.1007/s00415-022-11041-x](https://doi.org/10.1007/s00415-022-11041-x)
- **Daniele Proverbio, Françoise Kemp, Stefano Magni, Jorge Goncalves.** "Performance of early warning signals for disease re-emergence: A case study on COVID-19 data.", *Plos Computational Biology*, 18 - (3) - e1009958, [10.1371/journal.pcbi.1009958](https://doi.org/10.1371/journal.pcbi.1009958)
- **Alexandra Sipol, Erik Hameister, Busheng Xue, Julia Hofstetter, Maxim Barenboim, Rupert Ollinger, Gaurav Jain, Carolin Prexler, Rebeca Alba Rubio, Michaela C Baldauf, Davide G Franchina, Andreas Petry, Juliane Schmah, Uwe Thiel, Agnes Gorlach, Gunnar Cario, Dirk Brenner, Gunther H S Richter, Thomas G P Grunewald, Roland Rad, Elmar Wolf, Jurgen Ruland, Poul H Sorensen, Stefan E G Burdach.** "MondoA drives malignancy in B-ALL through enhanced adaptation to metabolic stress.", *Blood*, 139 - (8) - 1184-1197, [10.1182/blood.2020007932](https://doi.org/10.1182/blood.2020007932)
- **Elena I. Ilina, Camille Cialini, Dietlind L. Gerloff, Maitane Duarte Garcia-Escudero, Céline Jeanty, Marie-Laëtitia Thézénas, Antoine Lesur, Vincent Puard, François Bernardin, Alina Moter, Anne Schuster, Monika Dieterle, Anna Golebiewska, Jean-Jacques Gérardy, Gunnar Dittmar, Simone P. Niclou, Tanja Müller, Michel Mittelbronn.** "Enzymatic activity of glycosyltransferase GLT8D1 promotes human glioblastoma cell migration.", *IScience*, 25 - (2) - 103842, [10.1016/j.isci.2022.103842](https://doi.org/10.1016/j.isci.2022.103842)
- **Francesco Brunelli, Liliana Torosantucci, Vania Gelmetti, Davide Franzone, Anne Grunewald, Rejko Kruger, Giuseppe Arena, Enza Maria Valente.** "PINK1 Protects against Staurosporine-Induced Apoptosis by Interacting with Beclin1 and Impairing Its Pro-Apoptotic Cleavage.", *Cells*, 11 - (4) - [10.3390/cells11040678](https://doi.org/10.3390/cells11040678)
- **Gregory C Addicks, Hongbo Zhang, Dongryeol Ryu, Goutham Vasam, Alexander E Green, Philip L Marshall, Sonia Patel, Baeki E Kang, Doyoun Kim, Elena Katsyuba, Evan G Williams, Jean-Marc Renaud, Johan Auwerx, Keir J Menzies.** "GCN5 maintains muscle integrity by acetylating YY1 to promote dystrophin expression.", *Journal Of Cell Biology*, 221 - (2) - [10.1083/jcb.202104022](https://doi.org/10.1083/jcb.202104022)
- **Richard Milne, Katherine I Morley, Mohamed A Almarri, Jerome Atutornu, Elena E Baranova, Paul Bevan, Maria Cerezo, Yali Cong, Alessia Costa, Carolina Feijao, Claudia de Freitas, Josepine Fernow, Peter Goodhand, Quratulain Hasan, Aiko Hibino, Gry Houeland, Heidi C Howard, Zakir Hussain Sheikh, Charlotta Ingvaldstad Malmgren, Vera L Izhevskaya, Aleksandra Jedrzejak, Cao Jinhong, Megumi Kimura, Erika Kleiderman, Keying Liu, Deborah**

- Mascalzoni, Alvaro Mendes, Jusaku Minari, Dianne Nicol, Emilia Niemiec, Christine Patch, Barbara Prainsack, Marie Riviere, Lauren Robarts, Jonathan Roberts, Virginia Romano, Haytham A Sheerah, James Smith, Alexandra Soulier, Claire Steed, Vigdis Stefansdottir, Cornelia Tandre, **Adrian Thorogood**, Torsten H Voigt, Nan Wang, Go Yoshizawa, Anna Middleton. "Return of genomic results does not motivate intent to participate in research for all: Perspectives across 22 countries.", *Genetics In Medicine*, 24 - (5) - 1120-1129, [10.1016/j.gim.2022.01.002](https://doi.org/10.1016/j.gim.2022.01.002)
- Jean-David Morel, Lucie Sauzeat, Ludger J E Goeminne, Pooja Jha, **Evan Williams**, Riekelt H Houtkooper, Ruedi Aebersold, Johan Auwerx, Vincent Balter. "The mouse metallomic landscape of aging and metabolism.", *Nature Communications*, 13 - (1) - 607, [10.1038/s41467-022-28060-x](https://doi.org/10.1038/s41467-022-28060-x)
  - **Pierre Garcia, Wiebke Jurgens-Wemheuer, Oihane Uriarte Huarte, Alessandro Michelucci**, Annette Masuch, Simone Brioschi, Andreas Weihofen, Eric Koncina, **Djalil Coowar**, Tony Heurtaux, **Enrico Glaab, Rudi Balling, Carole Sousa**, Tony Kaoma, Nathalie Nicot, Tatjana Pfander, Walter Schulz-Schaeffer, Ahmad Allouche, Nicolas Fischer, Knut Biber, Felix Kleine-Borgmann, **Michel Mittelbronn, Marek Ostaszewski, Kristopher J Schmit, Manuel Buttini**. "Neurodegeneration and neuroinflammation are linked, but independent of alpha-synuclein inclusions, in a seeding/spreading mouse model of Parkinson's disease.", *Glia*, 70 - (5) - 935-60, [10.1002/glia.24149](https://doi.org/10.1002/glia.24149)
  - **Catherine Sedrani, Paul Wilmes**. "Toward hypothesis-driven, personalized microbiome screening.", *Cell Reports Methods*, 2 - (1) - 100139, [10.1016/j.crmeth.2021.100139](https://doi.org/10.1016/j.crmeth.2021.100139)
  - **Alise Zagare, Kyriaki Barmpa, Semra Smajic, Lisa M Smits, Kamil Grzyb, Anne Grunewald, Alexander Skupin, Sarah L Nickels, Jens C Schwamborn**. "Midbrain organoids mimic early embryonic neurodevelopment and recapitulate LRRK2-p.Gly2019Ser-associated gene expression.", *American Journal Of Human Genetics*, 109 - (2) - 311-27, [10.1016/j.ajhg.2021.12.009](https://doi.org/10.1016/j.ajhg.2021.12.009)
  - Veronica Mutti, Federica Bono, Zaira Tomasoni, Leonardo Bontempi, Adele Guglielmi, **Silvia Bolognin, Jens C Schwamborn**, Cristina Missale, Chiara Fiorentini. "Structural Plasticity of Dopaminergic Neurons Requires the Activation of the D3R-nAChR Heteromer and the PI3K-ERK1/2/Akt-Induced Expression of c-Fos and p70S6K Signaling Pathway.", *Molecular Neurobiology*, 59 - (4) - 2129-49, [10.1007/s12035-022-02748-z](https://doi.org/10.1007/s12035-022-02748-z)
  - Ni Zeng, Christophe M Capelle, Alexandre Baron, **Takumi Kobayashi**, Severine Cire, Vera Tslaf, Cathy Leonard, **Djalil Coowar**, Haruhiko Koseki, Astrid M Westendorf, Jan Buer, **Dirk Brenner, Rejko Kruger, Rudi Balling**, Markus Ollert, Feng Q Hefeng. "DJ-1 depletion prevents immunoevasion in T-cell compartments.", *Embo Reports*, 23 - (3) - e53302, [10.15252/embr.202153302](https://doi.org/10.15252/embr.202153302)
  - Susanne Schmitz, Michel Vaillant, Christell Renoux, Robert L Konsbruck, Pierre Hertz, Magali Perquin, **Lukas Pavelka, Rejko Kruger**, Laetitia Huiart. "Prevalence and Cost of Care for Parkinson's Disease in Luxembourg: An Analysis of National Healthcare Insurance Data.", *Pharmacoeconomics - Open*, 6 - (3) - 405-14, [10.1007/s41669-021-00321-3](https://doi.org/10.1007/s41669-021-00321-3)
  - Mahmoud Koko, Joshua E Motelow, Kate E Stanley, **Dheeraj R Bobbili**, Ryan S Dhindsa, **Patrick May**, Canadian Epilepsy Network, Epi4K Consortium, Epilepsy Phenome/Genome Project, EpiPGX Consortium, EuroEPINOMICS-CoGIE Consortium. "Association of ultra-rare coding variants with genetic generalized epilepsy: A case-control whole exome sequencing study.", *Epilepsia*, 63 - (3) - 723-735, [10.1111/epi.17166](https://doi.org/10.1111/epi.17166)
  - **Gabriela Novak, Dimitrios Kyriakis, Kamil Grzyb, Michela Bernini**, Sophie Rodius, Gunnar Dittmar, Steven Finkbeiner, **Alexander Skupin**. "Single-cell transcriptomics of human iPSC differentiation dynamics reveal a core molecular network of Parkinson's disease.", *Communications Biology*, 5 - (1) - 49, [10.1038/s42003-021-02973-7](https://doi.org/10.1038/s42003-021-02973-7)
  - Aaqib Sohail, Azeem A Iqbal, Nishika Sahini, Fangfang Chen, Mohamed Tantawy, Fakhar Waqas, Moritz Winterhoff, Thomas Ebsen, Kristin Schultz, Robert Geffers, Klaus Schughart, Matthias Preusse, Mahmoud Shehata, Heike Bahre, Marina C Pils, Carlos A Guzman, Ahmed Mostafa, Stephan Pleschka, Christine Falk, **Alessandro Michelucci**, Frank Pessler. "Itaconate and derivatives reduce interferon responses and inflammation in influenza A virus infection.", *Plos Pathogens*, 18 - (1) - e1010219, [10.1371/journal.ppat.1010219](https://doi.org/10.1371/journal.ppat.1010219)
  - Greta Del Mistro, Shamala Riemann, Sebastian Schindler, Stefan Beissert, Roland E Kontermann, Aurelien Ginolhac, **Rashi Halder**, Luana Presta, Lasse Sinkkonen, Thomas Sauter, Dagmar Kulms. "Focal adhesion kinase plays a dual role in TRAIL resistance and metastatic outgrowth of malignant melanoma.", *Cell Death & Disease*, 13 - (1) - 54, [10.1038/s41419-022-04502-8](https://doi.org/10.1038/s41419-022-04502-8)
  - Cloe Domenighetti, Pierre-Emmanuel Sugier, Ashwin Ashok Kumar Sreelatha, Claudia Schulte, Sandeep Grover, Oceane Mohamed, Berta Portugal, **Patrick May, Dheeraj R Bobbili**, Milena Radivojkov-Blagojevic, Peter Lichtner, Andrew B Singleton, Dena G Hernandez, Connor Edsall, George D Mellick, Alexander Zimprich, Walter Pirker, Ekaterina Rogaeva, Anthony E Lang, Sulev Koks, Pille Taba, Suzanne Lesage, Alexis Brice, Jean-Christophe Corvol, Marie-Christine Chartier-Harlin, Eugenie Mutez, Kathrin Brockmann, Angela B Deutschlander, Georges M Hadjigeorgiou, Efthimos Dardiotis, Leonidas Stefanis, Athina Maria Simitsi, Enza Maria Valente, Simona Petrucci, Stefano Duga, Letizia Straniero, Anna Zecchinelli, Gianni Pezzoli, Laura Brighina, Carlo Ferrarese, Grazia Annesi, Andrea Quattrone, Monica Gagliardi, Hirotaka Matsuo, Yasuke Kawamura, Nobutaka Hattori, Kenya Nishioka, Sun Ju Chung, Yun Joong Kim, Pierre Kolber, Bart P C van de Warrenburg, Bastiaan R Bloem, Jan Aasly, Mathias Toft, Lasse Pihlstrom, Leonor Correia Guedes, Joaquim J Ferreira, Soraya Bardien, Jonathan Carr, Eduardo Tolosa, Mario Ezquerro, Pau Pastor, Monica Diez-Fairen, Karin Wirdefeldt, Nancy L Pedersen, Caroline Ran, Andrea C Belin, Andreas Puschmann, Clara Hellberg, Carl E Clarke, Karen E Morrison, Manuela Tan, Dimitri Krainc, Lena F Burbulla, Matt J Farrer, **Rejko Kruger**, Thomas Gasser, Manu Sharma, Alexis Elbaz, Comprehensive Unbiased Risk Factor Assessment for Genetics and Environment in Parkinson's Disease (Courage-PD) Consortium. "Dairy Intake and Parkinson's Disease: A Mendelian Randomization Study.", *Movement Disorders*, 37 - (4) - 857-864, [10.1002/mds.28902](https://doi.org/10.1002/mds.28902)
  - Fubo Cheng, Wenxu Zheng, **Peter Antony Barbuti**, Paola Bonsi, Change Liu, Nicolas Casadei, Giulia Ponterio, Maria Meringolo, Jakob Admard, **Claire Marie Dording**, Libo Yu-Taeger, Huu Phuc Nguyen, Kathrin Grundmann-Hauser, Thomas Ott, Henry Houlden, Antonio Pisani, **Rejko Kruger**, Olaf Riess. "DYT6 mutated THAP1 is a cell type dependent regulator of the SP1 family.", *Brain*, 145 - (11) - 3968-3984, [10.1093/brain/awac001](https://doi.org/10.1093/brain/awac001)
  - **Arthur N Montanari**, Chao Duan, Luis A Aguirre, Adilson E Motter. "Functional observability and target state estimation in large-scale networks.", *Proceedings Of The National Academy Of Sciences Of The United States Of America*, 119 - (1) - [10.1073/pnas.2113750119](https://doi.org/10.1073/pnas.2113750119)
  - Werner Brack, Damia Barcelo Culleres, Alistair B A Boxall, Helene Budzinski, Sara Castiglioni, Adrian Covaci, Valeria Dulio, Beate I Escher, Peter Fantke, Faith Kandie, Despo Fatta-Kassinos, Felix J Hernandez, Klara Hilscherova, Juliane Hollender, Henner Hollert, Annika Jahnke, Barbara Kasprzyk-Hordern, Stuart J Khan, Andreas Kortenkamp, Klaus Kummerer, Brice Lalonde, Marja H Lamoree, Yves Levi, Pablo Antonio Lara Martin, Cassiana C Montagner, Christian Mougin, Titus Msagati, Jorg Oehlmann, Leo Posthuma, Malcolm Reid, Martin Reinhard, Susan D Richardson, Pawel Rostkowski, **Emma Schymanski**, Flurina Schneider, Jaroslav Slobodnik, Yasuyuki Shibata, Shane Allen Snyder, Fernando Fabriz Sodre, Ivana Teodorovic, Kevin V Thomas, Gisela A Umbuzeiro, Pham Hung Viet, Karina Gin Yew-Hoong, Xiaowei Zhang, Ettore Zuccato. "One planet: one health. A call to support the initiative on a global science-policy body on chemicals and waste.", *Environmental Sciences Europe*, 34 - (1) - 21, [10.1186/s12302-022-00602-6](https://doi.org/10.1186/s12302-022-00602-6)
  - Vitor Martins dos Santos, Mihail Anton, Barbara Szomolay, **Marek Ostaszewski**, Ilja Arts, Rui Benfeitas, Victoria Dominguez Del Angel, Polonca Ferk, Dirk Fey, Carole Goble, Martin Golebiewski, Kristina Gruđen, Katharina F. Heil, Henning Hermjakob, Pascal Kahlem, Maria I. Klapa, Jasper Koehorst, Alexey Kolodkin, Martina Kutmon, Brane Leskošek, Sébastien Moretti, Wolfgang Müller, Marco Pagni, Tadeja Rezen, Miguel Rocha, Damjana Rozman, David Šáfránek, Rahuman S. Malik Sheriff, Maria Suarez Diez, Kristel Van Steen, Hans V Westerhoff, Ulrike Wittig, Katherine Wolstencroft, Anze Zupanic, Chris T.

Evelo, John M. Hancock. "Systems Biology in ELIXIR: modelling in the spotlight.", F1000Research, 11 - [10.12688/f1000research.126734.1](https://doi.org/10.12688/f1000research.126734.1)

- **Adelene Lai**, Jonas Schaub, Christoph Steinbeck, **Emma L. Schymanski**. "An algorithm to classify homologous series within compound datasets.", Journal Of Cheminformatics, 14 - (1) - 85, [10.1186/s13321-022-00663-y](https://doi.org/10.1186/s13321-022-00663-y)
- Stefania Vetrano, Gerben Bouma, Robert J Benschop, Thomas Birngruber, Antonio Costanzo, G R A M D'Haens, Loredana Frasca, Rainer Hillenbrand, Lars Iversen, Claus Johansen, Arthur Kaser, Hans J P M Koenen, Christa Noehammer, Laurent Peyrin-Biroulet, Jeroen Raes, Leonardo Ricotti, Philip Rosenstiel, **Venkata P Satagopam**, Stefan Schreiber, Severine Vermeire, Andreas Wollenberg, Stephan Weidinger, Daniel Ziemek, Silvio Danese, ImmUniverse Consortium. "ImmUniverse Consortium: Multi-omics integrative approach in personalized medicine for immune-mediated inflammatory diseases.", Frontiers In Immunology, 13 - 1002629, [10.3389/fimmu.2022.1002629](https://doi.org/10.3389/fimmu.2022.1002629)
- Kenza Nedara, Camille Reinhardt, Emilie Lebraud, **Giuseppe Arena**, Celine Gracia, Valerie Buard, Catherine Pioche-Durieu, Florence Castelli, Benoit Colsch, Paule Benit, Pierre Rustin, Benoit Albaud, Pierre Gestraud, Sylvain Baulande, Nicolas Servant, Eric Deutsch, Jean-Marc Verbavatz, Catherine Brenner, Fabien Milliat, Nazanine Modjtahedi. "Relevance of the TRIAP1/p53 axis in colon cancer cell proliferation and adaptation to glutamine deprivation.", Frontiers In Oncology, 12 - 958155, [10.3389/fonc.2022.958155](https://doi.org/10.3389/fonc.2022.958155)
- **Hiba Mohammed Taha**, Reza Aalizadeh, Nikiforos Alygizakis, Jean-Philippe Antignac, Hans Peter H Arp, Richard Bade, Nancy Baker, Lidia Belova, Lubertus Bijlsma, Evan E Bolton, Werner Brack, Alberto Celma, Wen-Ling Chen, Tiejun Cheng, **Parviel Chirsir**, Lubos Cirka, Lisa A D'Agostino, Yannick Djoumbou Feunang, Valeria Dulio, Stellan Fischer, Pablo Gago-Ferrero, Aikaterini Galani, Birgit Geueke, Natalia Glowacka, Juliane Gluge, Ksenia Groh, Sylvia Grosse, Peter Haglund, Pertti J Hakkinen, Sarah E Hale, Felix Hernandez, Elisabeth M-L Janssen, Tim Jonkers, Karin Kiefer, Michal Kirchner, Jan Koschorreck, Martin Krauss, **Jessy Krier**, Marja H Lamoree, Marion Letzel, Thomas Letzel, Qingliang Li, James Little, Yanna Liu, David M Lunderberg, Jonathan W Martin, Andrew D McEachran, John A McLean, Christiane Meier, Jeroen Meijer, Frank Menger, Carla Merino, Jane Muncke, Matthias Muschket, Michael Neumann, Vanessa Neveu, Kelsey Ng, Herbert Oberacher, Jake O'Brien, Peter Oswald, Martina Oswaldova, Jaqueline A Picache, Cristina Postigo, **Noelia Ramirez**, Thorsten Reemtsma, Justin Renaud, Pawel Rostkowski, Heinz Rudel, Reza M Salek, Saer Samanipour, Martin Scherlinger, Ivo Schliebner, Wolfgang Schulz, Tobias Schulze, Manfred Sengl, Benjamin A Shoemaker, Kerry Sims, Heinz Singer, **Randolph R Singh**, Mark Sumarah, Paul A Thiessen, Kevin V Thomas, **Sonia Torres**, Xenia Trier, Annemarie P van Wezel, Roel C H Vermeulen, Jelle J Vlaanderen, Peter C von der Ohe, Zhanyun Wang, Antony J Williams, Egon L Willighagen, David S Wishart, Jian Zhang, Nikolaos S Thomaidis, Juliane Hollender, Jaroslav Slobodnik, **Emma L Schymanski**. "The NORMAN Suspect List Exchange (NORMAN-SLE): facilitating European and worldwide collaboration on suspect screening in high resolution mass spectrometry.", Environmental Sciences Europe, 34 - (1) - 104, [10.1186/s12302-022-00680-6](https://doi.org/10.1186/s12302-022-00680-6)
- Yasen Wang, Huazhen Fang, **Junyang Jin**, Guijun Ma, **Xin He**, Xing Dai, **Zuogong Yue**, Cheng Cheng, Hai Tao Zhang, Donglin Pu, Dongrui Wu, Ye Yuan, **Jorge Gonçalves**, Jürgen Kurths, Han Ding. "Data-Driven Discovery of Stochastic Differential Equations", Engineering, 17 - 244-252, [10.1016/j.eng.2022.02.007](https://doi.org/10.1016/j.eng.2022.02.007)
- Max Meyrath, Martyna Szpakowska, Jean-Marc Plessier, Olivia Domingues, Jeremie Langlet, Bernard Weber, **Rejko Kruger**, Markus Ollert, Andy Chevigne, CON-VINCE Consortium. "Nanoluciferase-based cell fusion assay for rapid and high-throughput assessment of SARS-CoV-2-neutralizing antibodies in patient samples.", Methods in Enzymology, Methods In Enzymology, 675 - 351-81, [10.1016/bs.mie.2022.07.015](https://doi.org/10.1016/bs.mie.2022.07.015)
- **Regina Becker**, **Davit Chokoshvili**, Giovanni Comandé, Edward S. Dove, Alison Hall, Colin Mitchell, Fruzsina Molnár-Gábor, Pilar Nicolàs, Sini Tervo, **Adrian Thorogood**. "Secondary Use of Personal Health Data: When Is It "further Processing" under the GDPR, and What Are the Implications for Data Controllers?", European Journal Of Health Law, [10.1163/15718093-bja10094](https://doi.org/10.1163/15718093-bja10094)
- Jade Brandani, Hannes Peter, **Susheel Bhanu Busi**, Tyler J Kohler, Stilianos Fodelianakis, Leila Ezzat, Gregoire Michoud, Massimo Bourquin, Paraskevi Pramateftaki, Matteo Roncoroni, Stuart N Lane, Tom J Battin. "Spatial patterns of benthic biofilm diversity among streams draining proglacial floodplains.", Frontiers In Microbiology, 13 - 948165, [10.3389/fmicb.2022.948165](https://doi.org/10.3389/fmicb.2022.948165)
- **L. Pavelka**, **A. Rauschenberger**, **Z. Landoulsi**, **S. Pachchek**, **P. May**, **E. Glaab**, **R. Krüger**, on behalf of the NCER-PD Consortium. "Age at onset as stratifier in idiopathic Parkinson's disease – effect of ageing and polygenic risk score on clinical phenotypes.", Npj Parkinsons Disease, 8 - (1) - 102, [10.1038/s41531-022-00342-7](https://doi.org/10.1038/s41531-022-00342-7)
- Norberto Sánchez-Cruz, **Emma L. Schymanski**. "Paths to Cheminformatics: Q&A with Norberto Sánchez-Cruz and Emma Schymanski.", Journal Of Cheminformatics, 14 - (1) - 51, [10.1186/s13321-022-00628-1](https://doi.org/10.1186/s13321-022-00628-1)
- Ekaterina Mavrina, Leighann Kimble, Katharina Waurly, Dea Gogishvili, Nerea Gomez de San Jose, Shreyasee Das, Salome Coppens, Barbara Fernandes Gomes, Sara Mravinacova, Anna Lidia Wojdala, Katharina Bolewig, Sherif Bayoumy, **Felicia Burtscher**, Pablo Mohaupt, Eline Willemse, Charlotte Teunissen, MIRIAD consortium. "Multi-Omics Interdisciplinary Research Integration to Accelerate Dementia Biomarker Development (MIRIAD).", Frontiers In Neurology, 13 - 890638, [10.3389/fneur.2022.890638](https://doi.org/10.3389/fneur.2022.890638)
- **Beatriz Garcia Santa Cruz**, **Jan Sltér**, **Gemma Gomez-Giro**, **Claudia Saraiva**, **Sonia Sabate-Soler**, **Jennifer Modamio**, **Kyriaki Barmpa**, **Jens Christian Schwamborn**, **Frank Hertel**, **Javier Jarazo**, **Andreas Husch**. "Generalising from conventional pipelines using deep learning in high-throughput screening workflows.", Scientific Reports, 12 - (1) - 11465, [10.1038/s41598-022-15623-7](https://doi.org/10.1038/s41598-022-15623-7)
- **Ahmed Abdelmonem Hemedan**, Anna Niarakis, **Reinhard Schneider**, **Marek Ostaszewski**. "Boolean modelling as a logic-based dynamic approach in systems medicine.", Computational And Structural Biotechnology Journal, 20 - 3161-72, [10.1016/j.csbi.2022.06.035](https://doi.org/10.1016/j.csbi.2022.06.035)
- Theresa Luth, Susen Schaake, **Anne Grunewald**, **Patrick May**, Joanne Trinh, Hansi Weissensteiner. "Benchmarking Low-Frequency Variant Calling With Long-Read Data on Mitochondrial DNA.", Frontiers In Genetics, 13 - 887644, [10.3389/fgene.2022.887644](https://doi.org/10.3389/fgene.2022.887644)
- Christina Wolf, Alireza Pouya, Sara Bitar, Annika Pfeiffer, Diones Bueno, Liliana Rojas-Charry, Sabine Arndt, David Gomez-Zepeda, Stefan Tenzer, Federica Dal Bello, Caterina Vianello, Sandra Ritz, Jonas Schwirz, Kristina Dobrindt, Michael Peitz, Eva-Maria Hanschmann, **Pauline Mencke**, **Ibrahim Boussaad**, Marion Silies, Oliver Brüstle, Marta Giacomello, **Rejko Krüger**, Axel Methner. "GDAP1 loss of function inhibits the mitochondrial pyruvate dehydrogenase complex by altering the actin cytoskeleton.", Communications Biology, 5 - (1) - 541, [10.1038/s42003-022-03487-6](https://doi.org/10.1038/s42003-022-03487-6)
- Nicole Kiweler, **Catherine Delbrouck**, Vitaly I. Pozdeev, **Laura Neises**, **Leticia Soriano-Baguet**, Kim Eiden, Feng Xian, Mohaned Benzarti, **Lara Haase**, Eric Koncina, Maryse Schmoetten, **Christian Jaeger**, Muhammad Zaeem Noman, Alexei Vazquez, Bassam Janji, Gunnar Dittmar, **Dirk Brenner**, Elisabeth Letellier, **Johannes Meiser**. "Mitochondria preserve an autarkic one-carbon cycle to confer growth-independent cancer cell migration and metastasis.", Nature Communications, 13 - (1) - 2699, [10.1038/s41467-022-30363-y](https://doi.org/10.1038/s41467-022-30363-y)
- **Laura de Nies**, **Susheel Bhanu Busi**, Mina Tsenkova, **Rashi Halder**, **Paul Wilmes**. "Evolution of the murine gut resistome following broad-spectrum antibiotic treatment.", Nature Communications, 13 - (1) - 2296, [10.1038/s41467-022-29919-9](https://doi.org/10.1038/s41467-022-29919-9)
- Dominik Ternes, Mina Tsenkova, Vitaly Igorevich Pozdeev, Marianne Meyers, Eric Koncina, Sura Atatri, Martine Schmitz, Jessica Karta, Maryse Schmoetten, **Almut Heinken**, Fabien Rodriguez, Catherine Delbrouck, Anthoula Gaigneaux, Aurelien Ginolhac, Tam Thuy Dan Nguyen, **Lea Grandmougin**, **Audrey Frachet-Bour**, **Camille Martin-Gallaussiaux**, Maria Pacheco, Lorie Neuberger-Castillo, Paulo Miranda, Nikolaus Zuegel, Jean-Yves Ferrand, Manon

- Gantenbein, Thomas Sauter, Daniel Joseph Slade, **Ines Thiele**, **Johannes Meiser**, Serge Haan, **Paul Wilmes**, Elisabeth Letellier. "The gut microbial metabolite formate exacerbates colorectal cancer progression.", *Nature Metabolism*, 4 - (4) - 458-75, [10.1038/s42255-022-00558-0](https://doi.org/10.1038/s42255-022-00558-0)
- Maria C.P. Fuchs, Bruno C. Rossini, **Marcio L. Acencio**, Ney Lemke, Esteban R. González, Salvatore Moricca, Tiziana Panzavolta, Edson L. Furtado, Shinitiro Oda, Celso L. Marino. "Defense response-like reaction associated with an anomaly in *Eucalyptus grandis*", *Trees-Structure And Function*, 36 - (4) - 1285-1302, [10.1007/s00468-022-02288-y](https://doi.org/10.1007/s00468-022-02288-y)
  - **Davide G. Franchina**, **Henry Kurniawan**, **Melanie Grusdat**, **Carole Binsfeld**, **Luana Guerra**, **Lynn Bonetti**, **Leticia Soriano-Baguet**, **Anouk Ewen**, **Takumi Kobayashi**, **Sophie Farinelle**, Anna Rita Minafra, Niels Vandamme, Anaïs Carpentier, Felix K. Borgmann, **Christian Jäger**, Ying Chen, Markus Kleinewietfeld, Vasilis Vasilou, **Michel Mittelbronn**, Karsten Hiller, Philipp A. Lang, **Dirk Brenner**. "Glutathione-dependent redox balance characterizes the distinct metabolic properties of follicular and marginal zone B cells.", *Nature Communications*, 13 - (1) - 1789, [10.1038/s41467-022-29426-x](https://doi.org/10.1038/s41467-022-29426-x)
  - **David S. Bouvier**, **Sonja Fixemer**, Tony Heurtaux, Félicia Jeannelle, Katrin B. M. Frauenknecht, **Michel Mittelbronn**. "The Multifaceted Neurotoxicity of Astrocytes in Ageing and Age-Related Neurodegenerative Diseases: A Translational Perspective.", *Frontiers In Physiology*, 13 - 814889, [10.3389/fphys.2022.814889](https://doi.org/10.3389/fphys.2022.814889)
  - Wenjuan Yang, Andreas Denger, Caroline Diener, Frederic Küppers, **Leticia Soriano-Baguet**, Gertrud Schäfer, Archana K. Yanamandra, Renping Zhao, Arne Knörck, Eva C. Schwarz, Martin Hart, Frank Lammert, Leticia Prates Roma, **Dirk Brenner**, Grigorios Christidis, Volkhard Helms, Eckart Meese, Markus Hoth, Bin Qu. "Unspecific CTL Killing Is Enhanced by High Glucose via TNF-Related Apoptosis-Inducing Ligand.", *Frontiers In Immunology*, 13 - 831680, [10.3389/fimmu.2022.831680](https://doi.org/10.3389/fimmu.2022.831680)
  - Agnes Langer, Lara Lucke-Paulig, Lucia Gassner, **Rejko Krüger**, Daniel Weiss, AIREZA Gharabaghi, Heidemarie Zach, Walter Maetzler, Markus A. Hobert. "Additive Effect of Dopaminergic Medication on Gait Under Single and Dual-Tasking Is Greater Than of Deep Brain Stimulation in Advanced Parkinson Disease With Long-duration Deep Brain Stimulation", *Neuromodulation*, 26 - (2) - 364-373, [10.1016/j.neurom.2022.01.015](https://doi.org/10.1016/j.neurom.2022.01.015)
  - **Laure Pauly**, **Claire Pauly**, **Maxime Hansen**, **Valerie E Schroder**, **Armin Rauschenberger**, Anja K Leist, **Rejko Kruger**, NCER-PD Consortium. "Retrograde Procedural Memory in Parkinson's Disease: A Cross-Sectional, Case-Control Study.", *Journal Of Parkinsons Disease*, 12 - (3) - 1013-1022, [10.3233/JPD-213081](https://doi.org/10.3233/JPD-213081)
  - Szilvia Veszélka, Mária Mészáros, Gergő Porkoláb, Anikó Szecskó, Nóra Kondor, Györgyi Ferenc, Tamás F. Polgár, Gábor Katona, Zoltán Kóta, Lóránd Kelemen, Tibor Páli, Judit P. Vigh, Fruzsina R. Walter, **Silvia Bolognin**, **Jens C. Schwaborn**, Jeng-Shiung Jan, Mária A. Deli. "A Triple Combination of Targeting Ligands Increases the Penetration of Nanoparticles across a Blood-Brain Barrier Culture Model.", *Pharmaceutics*, 14 - (1) - [10.3390/pharmaceutics14010086](https://doi.org/10.3390/pharmaceutics14010086)
  - Odette Fründt, **Anne-Marie Hanff**, Tobias Mai, Christiane Kirchner, Emma Bouzanne des Mazery, Ali Amouzandeh, Carsten Buhmann, **Rejko Krüger**, Martin Südmeyer. "Impact of COVID-19 Pandemic on (Health) Care Situation of People with Parkinson's Disease in Germany (Care4PD).", *Brain Sciences*, 12 - (1) - [10.3390/brainsci12010062](https://doi.org/10.3390/brainsci12010062)
  - Cioé Domenighetti, Pierre-Emmanuel Sugier, Ashwin Ashok Kumar Sreelatha, Claudia Schulte, Sandeep Grover, Océane Mohamed, Berta Portugal, **Patrick May**, **Dheeraj R. Bobbili**, Milena Radivojkov-Blagojevic, Peter Lichtner, Andrew B. Singleton, Dena G. Hernandez, Connor Edsall, George D. Mellick, Alexander Zimprich, Walter Pirker, Ekaterina Rogaeva, Anthony E. Lang, Sulev Koks, Pille Taba, Suzanne Lesage, Alexis Brice, Jean-Christophe Corvol, Marie-Christine Chartier-Harlin, Eugénie Mutez, Kathrin Brockmann, Angela B. Deutschländer, Georges M. Hadjigeorgiou, Efthimos Dardiotis, Leonidas Stefanis, Athina Maria Simitsi, Enza Maria Valente, Simona Petrucci, Stefano Duga, Letizia Straniero, Anna Zecchinelli, Gianni Pezzoli, Laura Brighina, Carlo Ferrarese, Grazia Annesi, Andrea Quattrone, Monica Gagliardi, Hirotaka Matsuo, Yusuke Kawamura, Nobutaka Hatton, Kenya Nishioka, Sun Ju Chung, Yun Joong Kim, **Pierre Kolber**, Bart PC van de Warrenburg, Bastiaan R. Bloem, Jan Aasly, Mathias Toft, Lasse Pihlstrøm, Leonor Correia Guedes, Joaquim J. Ferreira, Soraya Barden, Jonathan Carr, Eduardo Tolosa, Mario Ezquerro, Pau Pastor, Monica Diez-Fairen, Karin Wirdefeldt, Nancy L. Pedersen, Caroline Ran, Andrea C. Belin, Andreas Puschmann, Clara Hellberg, Carl E. Clarke, Karen E. Morrison, Manuela Tan, Dimitri Krainc, Lena F. Burbulla, Matt J. Farrer, **Rejko Krüger**, Thomas Gasser, Manu Sharma, Alexis Elbaz, Comprehensive Unbiased Risk Factor Assessment for Genetics and Environment in, Parkinson's Disease (Courage-PD) consortium. "Mendelian Randomisation Study of Smoking, Alcohol, and Coffee Drinking in Relation to Parkinson's Disease.", *Journal Of Parkinsons Disease*, 12 - (1) - 267-82, [10.3233/JPD-212851](https://doi.org/10.3233/JPD-212851)

## Letter

- **Claire Pauly**, **Enrico Glaab**, **Maxime Hansen**, **Camille Martin-Gallaussiaux**, **Mirko Ledda**, **Taina M Marques**, **Paul Wilmes**, **Rejko Kruger**, Nico J Diederich, NCER-PD Consortium. "Disease Progression, Resilience, and Inflammation Markers During the Coronavirus Disease 2019 Pandemic in Parkinson's Disease.", *Movement Disorders*, 37 - (11) - 2315-2317, [10.1002/mds.29212](https://doi.org/10.1002/mds.29212)
- Gabriel Sigmund, Marlene Agerstrand, Tomas Brodin, Miriam L Diamond, Walter R Erdelen, David C Evers, **Adelene Lai**, Matthias C Rillig, Andreas Schaffer, Anna Soehl, Joao Paulo M Torres, Zhanyun Wang, Ksenia J Groh. "Broaden chemicals scope in biodiversity targets.", *Science*, 376 - (6599) - 1280, [10.1126/science.add3070](https://doi.org/10.1126/science.add3070)

## 2021

### Book

- **Andreas Husch**, **Frank Hertel**. "DBS imaging methods II: Electrode localization", *Connectomic Deep Brain Stimulation*, 127-146,

### Book Series

- Adam Šmelko, **Miroslav Kratochvíl**, Martin Kruliš, Tomáš Sieger. "GPU-Accelerated Mahalanobis-Average Hierarchical Clustering Analysis", *Euro-Par 2021: Parallel Processing. Euro-Par 2021. Lecture Notes in Computer Science.*, 12820 LNCS - 580-595, [10.1007/978-3-030-85665-6\\_36](https://doi.org/10.1007/978-3-030-85665-6_36)

### Conference Proceeding

- **Vanja Vlasov**, Marie Bofferding, **Loïc Marx**, Chencheng Zhang, **Jorge Goncalves**, **Andreas Husch**, **Frank Hertel**. "Automated Deep Learning-based Segmentation of Brain, SEEG and DBS Electrodes on CT Images", *Bildverarbeitung für die Medizin 2021, Proceedings, German Workshop on Medical Image Computing, Regensburg, March 7-9, 2021*, 92-97, [10.1007/978-3-658-33198-6\\_22](https://doi.org/10.1007/978-3-658-33198-6_22)

- **Corrado Ameli, Sonja Fixemer, David S. Bouvier, Alexander Skupin.** "PRAQA: Protein relative abundance quantification algorithm for 3D fluorescent images", BIOIMAGING 2021 - 8th International Conference on Bioimaging; Part of the 14th International Joint Conference on Biomedical Engineering Systems and Technologies, BIOSTEC 2021, 2 - 21-30, [10.5220/0010187400210030](https://doi.org/10.5220/0010187400210030)
- **Johan Markdahl, Daniele Proverbio, Jorge Goncalves.** "Robust synchronization of heterogeneous robot swarms on the sphere", Proceedings of the IEEE Conference on Decision and Control, 2020-December - 5798-5803, [10.1109/CDC42340.2020.9304268](https://doi.org/10.1109/CDC42340.2020.9304268)
- Johanna Happold, Robert Richer, Arne Kuderle, Heiko Gabner, **Jochen Klucken**, Bjoern M. Eskofier, Felix Kluge. "Evaluation of Orthostatic Reactions in Real-World Environments Using Wearable Sensors", Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS, 6987-6990, [10.1109/EMBC46164.2021.9630842](https://doi.org/10.1109/EMBC46164.2021.9630842)

## Journal

- Frederic Brosseron, Anne Maass, Luca Kleineidam, Kishore Aravind Ravichandran, Pablo Garcia Gonzalez, Roisin M McManus, Christina Ising, Francesco Santarelli, Carl-Christian Kolbe, Lisa M Hasler, Steffen Wolfsgruber, Marta Marquie, Merce Boada, Adelina Orellana, Itziar de Rojas, Sandra Roske, Oliver Peters, Nicoleta-Carmen Cosma, Arda Cetindag, Xiao Wang, Josef Priller, Eike J Spruth, Slawek Altenstein, Anja Schneider, Klaus Fliessbach, Jens Wiltfang, Bjorn H Schott, Katharina Burger, Daniel Janowitz, Martin Dichgans, Robert Perneczky, Boris-Stephan Rauchmann, Stefan Teipel, Ingo Kilimann, Doreen Goerss, Christoph Laske, Matthias H Munk, Emrah Duzel, Renat Yakupov, Laura Dobisch, Coraline D Metzger, Wenzel Glanz, Michael Ewers, Peter Dechent, John Dylan Haynes, Klaus Scheffler, Nina Roy, Ayda Rostamzadeh, Charlotte E Teunissen, Natalie L Marchant, Annika Spottke, Mathias Jucker, Eicke Latz, Michael Wagner, David Mengel, Matthias Synofzik, Frank Jessen, Alfredo Ramirez, Agustin Ruiz, **Michael T Heneka**, DELCODE study group. "Soluble TAM receptors sAXL and sTyro3 predict structural and functional protection in Alzheimer's disease.", Neuron, 110 - (6) - 1009-1022.e4, [10.1016/j.neuron.2021.12.016](https://doi.org/10.1016/j.neuron.2021.12.016)
- **Bianca De Saedeleer, Antoine Malabirade, Javier Ramiro-Garcia, Janine Habier, Jean-Pierre Trezzi, Samantha L Peters, Annegrat Daujeumont, Rashi Halder, Christian Jager, Susheel Bhanu Busi, Patrick May, Wolfgang Oertel, Brit Mollenhauer, Cedric C Laczny, Robert L Hettich, Paul Wilmes.** "Systematic characterization of human gut microbiome-secreted molecules by integrated multi-omics.", Isme Communications, 1 - 82, [10.1038/s43705-021-00078-0](https://doi.org/10.1038/s43705-021-00078-0)
- **Semra Smajic, Cesar A Prada-Medina, Zied Landoulsi, Jenny Ghelfi, Sylvie Delcambre, Carola Dietrich, Javier Jarazo, Jana Henck, Saranya Balachandran, Sinthuja Pachchek, Christopher M Morris, Paul Antony, Bernd Timmermann, Sascha Sauer, Sandro L Pereira, Jens C Schwaborn, Patrick May, Anne Grunewald, Malte Spielmann.** "Single-cell sequencing of human midbrain reveals glial activation and a Parkinson-specific neuronal state.", Brain, 145 - (3) - 964-978, [10.1093/brain/awab446](https://doi.org/10.1093/brain/awab446)
- Tim Van Den Bossche, **Benoit J Kunath**, Kay Schallert, Stephanie S Schape, Paul E Abraham, Jean Armengaud, Magnus O Arntzen, Ariane Bassignani, Dirk Benndorf, Stephan Fuchs, Richard J Giannone, Timothy J Griffin, Live H Hagen, **Rashi Halder**, Celine Henry, Robert L Hettich, Robert Heyer, Pratik Jagtap, Nico Jehmlich, Marlene Jensen, Catherine Juste, Manuel Kleiner, Olivier Langella, Theresa Lehmann, Emma Leith, **Patrick May**, Bart Mesuere, Guylaine Miotello, Samantha L Peters, Olivier Pible, **Pedro T Queiros**, Udo Reichl, Bernhard Y Renard, Henning Schiebenhoefer, Alexander Sczyrba, Alessandro Tanca, Kathrin Trappe, **Jean-Pierre Trezzi**, Sergio Uzzau, Pieter Verschaffelt, Martin von Bergen, **Paul Wilmes**, Maximilian Wolf, Lennart Martens, Thilo Muth. "Critical Assessment of MetaProteome Investigation (CAMPI): a multi-laboratory comparison of established workflows.", Nature Communications, 12 - (1) - 7305, [10.1038/s41467-021-27542-8](https://doi.org/10.1038/s41467-021-27542-8)
- **Dagny Aurich, Owen Miles, Emma L. Schymanski.** "Historical exposomics and high resolution mass spectrometry", Exposome, (1) - 1, [10.1093/exposome/osab007](https://doi.org/10.1093/exposome/osab007)
- **Enrico Glaab, Armin Rauschenberger, Rita Banzi, Chiara Gerardi, Paula Garcia, Jacques Demotes.** "Biomarker discovery studies for patient stratification using machine learning analysis of omics data: a scoping review.", Bmj Open, 11 - (12) - e053674, [10.1136/bmjopen-2021-053674](https://doi.org/10.1136/bmjopen-2021-053674)
- **Corey M Griffith, Adhish S Walvekar, Carole L Linster.** "Approaches for completing metabolic networks through metabolite damage and repair discovery.", Current Opinion In Systems Biology, 28 - None, [10.1016/j.coisb.2021.100379](https://doi.org/10.1016/j.coisb.2021.100379)
- **Ilya Potapov, Thirumala-Devi Kanneganti, Antonio Del Sol.** "Fostering experimental and computational synergy to modulate hyperinflammation.", Trends In Immunology, 43 - (1) - 4-7, [10.1016/j.it.2021.11.004](https://doi.org/10.1016/j.it.2021.11.004)
- **Gabriela Novak, Steven Finkbeiner, Gaia Skibinski, Alexander Skupin.** "Generation of two human induced pluripotent stem cell lines (iPSCs) with mutations of the alpha-synuclein (SNCA) gene associated with Parkinson's disease; the A53T mutation (LCSBi003) and a triplication of the SNCA gene (LCSBi007).", Stem Cell Research, 57 - 102600, [10.1016/j.scr.2021.102600](https://doi.org/10.1016/j.scr.2021.102600)
- Anne-Marie Hanff, Anja K Leist, Joelle V Fritz, **Claire Pauly, Rejko Kruger, Margareta Halek, NCER-PD Consortium.** "Determinants of Self-Stigma in People with Parkinson's Disease: A Mixed Methods Scoping Review.", Journal Of Parkinsons Disease, 12 - (2) - 509-522, [10.3233/JPD-212869](https://doi.org/10.3233/JPD-212869)
- Martina Di Rienzo, Alessandra Romagnoli, Fabiola Ciccocanti, Giulia Refolo, Veronica Consalvi, **Giuseppe Arena, Enza Maria Valente, Mauro Piacentini, Gian Maria Fimia.** "AMBRA1 regulates mitophagy by interacting with ATAD3A and promoting PINK1 stability.", Autophagy, 18 - (8) - 1752-1762, [10.1080/15548627.2021.1997052](https://doi.org/10.1080/15548627.2021.1997052)
- Emadeldin Hassanin, **Patrick May, Rana Aldisi, Isabel Spier, Andreas J Forstner, Markus M Nothen, Stefan Aretz, Peter Krawitz, Dheeraj Reddy Bobbili, Carlo Maj.** "Breast and prostate cancer risk: The interplay of polygenic risk, rare pathogenic germline variants, and family history.", Genetics In Medicine, 24 - (3) - 576-585, [10.1016/j.gim.2021.11.009](https://doi.org/10.1016/j.gim.2021.11.009)
- Verena Jakob, Arne Kuderle, Felix Kluge, **Jochen Klucken**, Bjoern M Eskofier, Jurgen Winkler, Martin Winterholler, Heiko Gassner. "Validation of a Sensor-Based Gait Analysis System with a Gold-Standard Motion Capture System in Patients with Parkinson's Disease.", Sensors, 21 - (22) - [10.3390/s21227680](https://doi.org/10.3390/s21227680)
- **Randolph R. Singh, Adelene Lai, Jessy Krier, Todor Kondi, Philippe Diderich, Emma L. Schymanski.** "Occurrence and Distribution of Pharmaceuticals and Their Transformation Products in Luxembourgish Surface Waters", Acs Environmental Au, 1 - (1) - 58-70, [10.1021/acsenvironau.1c00008](https://doi.org/10.1021/acsenvironau.1c00008)
- Chloe Mirzayi, Audrey Renson, Fatima Zohra, Shaimaa Elsafoury, Ludwig Geistlinger, Lora J Kasselmann, Kelly Eckenrode, Janneke van de Wijgert, Amy Loughman, Francine Z Marques, David A MacIntyre, Manimozhayan Arumugam, Rimsha Azhar, Francesco Beghini, Kirk Bergstrom, Ami Bhatt, Jordan E Bisanz, Jonathan Braun, Hector Corrada Bravo, Gregory A Buck, Frederic Bushman, David Casero, Gerard Clarke, Maria Carmen Collado, Paul D Cotter, John F Cryan, Ryan T Demmer, Suzanne Devkota, Eran Elinav, Juan S Escobar, Jennifer Fettweis, Robert D Finn, Anthony A Fodor, Sofia Forslund, Andre Franke, Cesare Furlanello, Jack Gilbert, Elizabeth Grice, Benjamin Haibe-Kains, Scott Handley, Pamela Herd, Susan Holmes, Jonathan P Jacobs, Lisa Karstens, Rob Knight, Dan Knights, Omry Koren, Douglas S Kwon, Morgan Langille, Brianna Lindsay, Dermot McGovern, Alice C McHardy, Shannon McWeeney, Noel T Mueller, Luigi Nezi, Matthew Olm, Noah Palm, Edoardo Pasolli, Jeroen Raes, Matthew R Redinbo, Malte Ruhlemann, R Balfour Sartor,

- Patrick D Schloss, Lynn Schriml, Eran Segal, Michelle Shardell, Thomas Sharpton, Ekaterina Smirnova, Harry Sokol, Justin L Sonnenburg, Sujatha Srinivasan, Louise B Thingholm, Peter J Turnbaugh, Vaibhav Upadhyay, Ramona L Walls, **Paul Wilmes**, Takuji Yamada, Georg Zeller, Mingyu Zhang, Ni Zhao, Liping Zhao, Wenjun Bao, Aedin Culhane, Viswanath Devanarayan, Joaquin Dopazo, Xiaohui Fan, Matthias Fischer, Wendell Jones, Rebecca Kusko, Christopher E Mason, Tim R Mercer, Susanna-Assunta Sansone, Andreas Scherer, Leming Shi, Shraddha Thakkar, Weida Tong, Russ Wolfinger, Christopher Hunter, Nicola Segata, Curtis Huttenhower, Jennifer B Dowd, Heidi E Jones, Levi Waldron, Genomic Standards Consortium, Massive Analysis and Quality Control Society. "Reporting guidelines for human microbiome research: the STORMS checklist.", *Nature Medicine*, 27 - (11) - 1885-1892, [10.1038/s41591-021-01552-x](https://doi.org/10.1038/s41591-021-01552-x)
- **Miroslav Kratochvil, Laurent Heirendt**, St Elmo Wilken, **Taneli Pusa, Sylvain Arreckx**, Alberto Noronha, Marvin van Aalst, **Venkata P Satagopam**, Oliver Ebenhoh, **Reinhard Schneider, Christophe Trefois, Wei Gu**. "COBREXA.jl: constraint-based reconstruction and exascale analysis.", *Bioinformatics*, 38 - (4) - 1171-2, [10.1093/bioinformatics/btab782](https://doi.org/10.1093/bioinformatics/btab782)
  - Catarina Pereira, **Alexander Mazein**, Carlos M Farinha, Michael A Gray, Karl Kunzelmann, **Marek Ostaszewski, Irina Balaur**, Margarida D Amaral, Andre O Falcao. "CyFI-MAP: an interactive pathway-based resource for cystic fibrosis.", *Scientific Reports*, 11 - (1) - 22223, [10.1038/s41598-021-01618-3](https://doi.org/10.1038/s41598-021-01618-3)
  - **Adrian Thorogood**, Michael J.S. Beauvais. "International coordination of research ethics review: An adequacy model", *Philosophies*, 6 - (4) - [10.3390/philosophies6040093](https://doi.org/10.3390/philosophies6040093)
  - **Adrian Thorogood**, Heidi L. Rehm, Peter Goodhand, Angela J.H. Page, Yann Joly, Michael Baudis, Jordi Rambla, Arcadi Navarro, Tommi H. Nyronen, Mikael Linden, Edward S. Dove, Marc Fiume, Michael Brudno, Melissa S. Cline, Ewan Bimney. "International federation of genomic medicine databases using GA4GH standards.", *Cell Genomics*, 1 - (2) - [10.1016/j.xgen.2021.100032](https://doi.org/10.1016/j.xgen.2021.100032)
  - Jonathan Lawson, Moran N Cabili, Giselle Kerry, Tiffany Boughtwood, **Adrian Thorogood, Pinar Alper**, Sarion R Bowers, Rebecca R Boyles, Anthony J Brookes, Matthew Brush, Tony Burdett, Hayley Clissold, Stacey Donnelly, Stephanie O M Dyke, Mallory A Freeberg, Melissa A Haendel, Chihiro Hata, Petr Holub, Francis Jeanson, Aina Jene, Minae Kawashima, Shuichi Kawashima, Melissa Konopko, Irene Kyomugisha, Haoyuan Li, Mikael Linden, Laura Lyman Rodriguez, Mizuki Morita, Nicola Mulder, Jean Muller, Satoshi Nagaie, Jamal Nasir, Soichi Ogishima, Vivian Ota Wang, Laura D Paglione, Ravi N Pandya, Helen Parkinson, Anthony A Philippakis, Fabian Prasser, Jordi Rambla, Kathy Reinold, Gregory A Rushton, Andrea Saltzman, Gary Saunders, Heidi J Sofia, John D Spalding, Morris A Swertz, Ilya Tulchinsky, Esther J van Enckevort, Susheel Varma, Craig Voisin, Natsuko Yamamoto, Chisato Yamasaki, Lyndon Zass, Jaime M Guidry Auvil, Tommi H Nyronen, Melanie Courtot. "The Data Use Ontology to streamline responsible access to human biomedical datasets.", *Cell Genomics*, 1 - (2) - None, [10.1016/j.xgen.2021.100028](https://doi.org/10.1016/j.xgen.2021.100028)
  - Craig Voisin, Mikael Linden, Stephanie O M Dyke, Sarion R Bowers, **Pinar Alper**, Maxmillian P Barkley, David Bernick, Jianpeng Chao, Melanie Courtot, Francis Jeanson, Melissa A Konopko, Martin Kuba, Jonathan Lawson, Jaakko Leinonen, Stephanie Li, Vivian Ota Wang, Anthony A Philippakis, Kathy Reinold, Gregory A Rushton, J Dylan Spalding, Juha Tornroos, Ilya Tulchinsky, Jaime M Guidry Auvil, Tommi H Nyronen. "GA4GH Passport standard for digital identity and access permissions.", *Cell Genomics*, 1 - (2) - None, [10.1016/j.xgen.2021.100030](https://doi.org/10.1016/j.xgen.2021.100030)
  - **Katja Badanjak, Patrycja Mulica, Semra Smajic, Sylvie Delcambre, Leon-Charles Tranchevent, Nico Diederich, Thomas Rauen, Jens C Schwamborn, Enrico Glaab**, Sally A Cowley, **Paul M A Antony, Sandro L Pereira, Carmen Venegas, Anne Grunewald**. "iPSC-Derived Microglia as a Model to Study Inflammation in Idiopathic Parkinson's Disease.", *Frontiers In Cell And Developmental Biology*, 9 - 740758, [10.3389/fcell.2021.740758](https://doi.org/10.3389/fcell.2021.740758)
  - **Rene Peter Bremm**, Christophe Berthold, **Rejko Kruger**, Klaus Peter Koch, **Jorge Goncalves, Frank Hertel**. "Therapeutic maps for a sensor-based evaluation of deep brain stimulation programming.", *Biomedical Engineering-Biomedizinische Technik*, 66 - (6) - 603-611, [10.1515/bmt-2020-0210](https://doi.org/10.1515/bmt-2020-0210)
  - Marcello Manfredi, **Evan Williams**, William C Cho, Marco Falasca. "Editorial: Recent Advances in In Vitro and In Vivo Multi-Omics Analyses of Extracellular Vesicles: Therapeutic Targets and Biomarkers.", *Frontiers In Molecular Biosciences*, 8 - 784436, [10.3389/fmolb.2021.784436](https://doi.org/10.3389/fmolb.2021.784436)
  - Malte Herold, **Aymeric Fouquier D'hérouël, Patrick May, Francesco Delogu**, Anke Wienecke-Baldacchino, Jessica Tapp, Cécile Walczak, **Paul Wilmes**, Henry Michel Cauchie, Guillaume Fournier, Leslie Gorzaly. "Genome sequencing of sars-cov-2 allows monitoring of variants of concern through wastewater", *Water*, 13 - (21) - [10.3390/w13213018](https://doi.org/10.3390/w13213018)
  - **Claire Pauly**, Fabiana Ribeiro, **Valerie E. Schröder, Laure Pauly, Rejko Krüger**, Anja K. Leist, **the CON-VINCE Consortium**. "The Moderating Role of Resilience in the Personality-Mental Health Relationship During the COVID-19 Pandemic.", *Frontiers In Psychiatry*, 12 - 745636, [10.3389/fpsy.2021.745636](https://doi.org/10.3389/fpsy.2021.745636)
  - Martin Ullrich, Annika Mucke, Arne Kuderle, Nils Roth, Till Gladow, Heiko Gabner, Franz Marxreiter, **Jochen Klucken**, Bjoern M Eskofier, Felix Kluge. "Detection of Unsupervised Standardized Gait Tests From Real-World Inertial Sensor Data in Parkinson's Disease.", *Ieee Transactions On Neural Systems And Rehabilitation Engineering*, 29 - 2103-2111, [10.1109/TNSRE.2021.3119390](https://doi.org/10.1109/TNSRE.2021.3119390)
  - **Jonas Walter, Silvia Bolognin, Suresh K Poovathingal, Stefano Magni**, Deborah Gerard, **Paul M A Antony, Sarah L Nickels, Luis Salamanca, Emanuel Berger, Lisa M Smits, Kamil Grzyb**, Rita Perfeito, Fredrik Hoel, **Xiaobing Qing, Jochen Ohnmacht**, Michele Bertacchi, **Javier Jarazo, Tomasz Ignac, Anna S Monzel, Laura Gonzalez-Cano, Rejko Kruger**, Thomas Sauter, Michele Studer, Luis Pereira de Almeida, Karl J Tronstad, Lasse Sinkkonen, **Alexander Skupin, Jens C Schwamborn**. "The Parkinson's-disease-associated mutation LRRK2-G2019S alters dopaminergic differentiation dynamics via NR2F1.", *Cell Reports*, 37 - (3) - 109864, [10.1016/j.celrep.2021.109864](https://doi.org/10.1016/j.celrep.2021.109864)
  - **Marek Ostaszewski**, Anna Niarakis, **Alexander Mazein**, Inna Kuperstein, Robert Phair, Aurelio Orta-Resendiz, Vidisha Singh, Sara Sadat Aghamiri, **Marcio Luis Acencio, Enrico Glaab**, Andreas Ruepp, Gisela Fobo, Corinna Montrone, Barbara Brauner, Goar Frishman, Luis Cristobal Monraz Gomez, Julia Somers, Matti Hoch, Shailendra Kumar Gupta, Julia Scheel, Hanna Borlinghaus, Tobias Czauderna, Falk Schreiber, Arnau Montagud, Miguel Ponce de Leon, Akira Funahashi, Yusuke Hiki, Noriko Hiroi, Takahiro G Yamada, Andreas Drager, Alina Renz, Muhammad Naveez, Zsolt Bocskei, Francesco Messina, Daniela Bornigen, Liam Fergusson, Marta Conti, Marius Rameil, Vanessa Nakonecni, Jakob Vanhoefer, Leonard Schmiester, Muying Wang, Emily E Ackerman, Jason E Shoemaker, Jeremy Zucker, Kristie Oxford, Jeremy Teuton, Ebru Kocakaya, Gokce Yagmur Summak, Kristina Hanspers, Martina Kutmon, Susan Coort, Lars Eijssen, Friederike Ehrhart, Devasahayam Arokia Balaya Rex, Denise Slenter, Marvin Martens, Nhung Pham, Robin Haw, Bijay Jassal, Lisa Matthews, Marija Orlic-Milacic, Andrea Senff Ribeiro, Karen Rothfels, Veronica Shamovsky, Ralf Stephan, Cristoffer Sevilla, Thawfeek Varusai, Jean-Marie Ravel, Rupsha Fraser, Vera Ortseifen, Silvia Marchesi, **Piotr Gawron, Ewa Smula, Laurent Heirendt, Venkata Satagopam**, Guanming Wu, Anders Riutta, Martin Golebiewski, Stuart Owen, Carole Goble, Xiaoming Hu, Rupert W Overall, Dieter Maier, Angela Bauch, Benjamin M Gyori, John A Bachman, **Carlos Vega, Valentin Groues**, Miguel Vazquez, Pablo Porras, Luana Licata, Marta Iannuccelli, Francesca Sacco, Anastasia Nesterova, Anton Yuryev, Anita de Waard, Denes Turei, Augustin Luna, Ozgun Babur, Sylvain Soliman, Alberto Valdeolivas, Marina Esteban-Medina, Maria Pena-Chilet, Kinza Rian, Tomas Helikar, Bhanwar Lal Puniya, Dezso Modos, Agatha Treveil, Marton Olbei, Bertrand De Meulder, Stephane Ballereau, Aurelien Dugourd, Aurelien Naldi, Vincent Noel, Laurence Calzone, Chris Sander, Emek Demir, Tamas Korcsmaros, Tom C Freeman, Franck Auge, Jacques S Beckmann, Jan Hasenauer, Olaf Wolkenhauer, Egon L Wilighagen, Alexander R Pico, Chris T Evelo, Marc E Gillespie, Lincoln D Stein, Henning Hermjakob, Peter D'Eustachio, Julio Saez-Rodriguez, Joaquin Dopazo, Alfonso Valencia, Hiroaki Kitano, Emmanuel Barillot, Charles Auffray, **Rudi Balling, Reinhard Schneider**, COVID-19 Disease Map Community. "COVID19 Disease Map, a computational knowledge repository of virus-host interaction mechanisms.", *Molecular Systems Biology*, 17 - (10) - e10387, [10.15252/msb.202110387](https://doi.org/10.15252/msb.202110387)

- **Evan G Williams**, Niklas Pfister, Suheeta Roy, Cyril Statzer, Jack Haverty, Jesse Ingels, Casey Bohl, Moaraj Hasan, Jelena Cuklina, Peter Buhlmann, Nicola Zamboni, Lu Lu, Collin Y Ewald, Robert W Williams, Ruedi Aebersold. "Multiomic profiling of the liver across diets and age in a diverse mouse population.", *Cell Systems*, 13 - (1) - 43-57.e6, [10.1016/j.cels.2021.09.005](https://doi.org/10.1016/j.cels.2021.09.005)
- Itxaso Anso, Luis G M Basso, Lei Wang, Alberto Marina, Edgar D Paez-Perez, **Christian Jager**, **Floriane Gavotto**, Montse Tersa, **Sebastian Perrone**, F-Xabier Contreras, Jacques Prandi, Martine Gilleron, **Carole L Linster**, Francisco Corzana, Todd L Lowary, Beatriz Trastoy, Marcelo E Guerin. "Molecular ruler mechanism and interfacial catalysis of the integral membrane acyltransferase PatA.", *Science Advances*, 7 - (42) - eabj4565, [10.1126/sciadv.abj4565](https://doi.org/10.1126/sciadv.abj4565)
- Pia S Zeiner, Leonhard Mann, Katharina Filipowski, Tatjana Starzetz, Marie-Therese Forster, Michael W Ronellenfitsch, Joachim P Steinbach, **Michel Mittelbronn**, Marlies Wagner, Patrick N Harter. "Immune profile and radiological characteristics of progressive multifocal leukoencephalopathy.", *European Journal Of Neurology*, 29 - (2) - 543-554, [10.1111/ene.15140](https://doi.org/10.1111/ene.15140)
- **Gabriela Novak**, Steven Finkbeiner, Gaia Skibinski, **Alexander Skupin**. "Generation of two human induced pluripotent stem cell lines from fibroblasts of unrelated Parkinson's patients carrying the G2019S mutation in the LRRK2 gene (LCSBi005, LCSBi006).", *Stem Cell Research*, 57 - 102569, [10.1016/j.scr.2021.102569](https://doi.org/10.1016/j.scr.2021.102569)
- Michelle L.M. Mulder, Xuehui He, Juul M.P.A. van den Reek, Paulo C.M. Urbano, Charlotte Kaffa, **Xinhui Wang**, Bram van Cranenbroek, Esther van Rijssen, Frank H.J. van den Hoogen, Irma Joosten, Wynand Alkema, Elke M.G.J. de Jong, Ruben L. Smeets, Mark H. Wenink, Hans J.P.M. Koenen. "Blood-based immune profiling combined with machine learning discriminates psoriatic arthritis from psoriasis patients", *International Journal Of Molecular Sciences*, 22 - (20) - [10.3390/ijms222010990](https://doi.org/10.3390/ijms222010990)
- **Javier Jarazo**, **Kyriaki Barmpa**, **Jennifer Modamio**, **Claudia Saraiva**, **Sonia Sabate-Soler**, **Isabel Rosety**, Anne Griesbeck, Florian Skwirblies, Gaia Zaffaroni, **Lisa M Smits**, Jihui Su, **Jonathan Arias-Fuenzalida**, **Jonas Walter**, **Gemma Gomez-Giro**, **Anna S Monzel**, **Xiaobing Qing**, **Armelle Vitali**, **Gerald Cruciani**, **Ibrahim Boussaad**, Francesco Brunelli, **Christian Jager**, Aleksandar Rakovic, Wen Li, Lin Yuan, **Emanuel Berger**, **Giuseppe Arena**, **Silvia Bolognin**, Ronny Schmidt, Christoph Schroder, **Paul M A Antony**, Christine Klein, **Rejko Kruger**, Philip Seibler, **Jens C Schwamborn**. "Parkinson's Disease Phenotypes in Patient Neuronal Cultures and Brain Organoids Improved by 2-Hydroxypropyl-beta-Cyclodextrin Treatment.", *Movement Disorders*, 37 - (1) - 80-94, [10.1002/mds.28810](https://doi.org/10.1002/mds.28810)
- **Peter A. Barbuti**, **Jochen Ohnmacht**, **Bruno F. R. Santos**, **Paul M. Antony**, **François Massart**, **Gérald Cruciani**, **Claire M. Dording**, **Lukas Pavelka**, Nicolas Casadei, Yong-Jun Kwon, **Rejko Krüger**. "Gene-corrected p.A30P SNCA patient-derived isogenic neurons rescue neuronal branching and function.", *Scientific Reports*, 11 - (1) - 21946, [10.1038/s41598-021-01505-x](https://doi.org/10.1038/s41598-021-01505-x)
- **Johan Markdahl**. "Counterexamples in synchronization: Pathologies of consensus seeking gradient descent flows on surfaces", *Automatica*, 134 - [10.1016/j.automatica.2021.109945](https://doi.org/10.1016/j.automatica.2021.109945)
- Fotis A Baltoumas, Sofia Zafeiropoulou, Evangelos Karatzas, Savvas Paragkamanis, Foteini Thanati, Ioannis Iliopoulos, Aristides G Eliopoulos, **Reinhard Schneider**, Lars Juhl Jensen, Evangelos Pafilis, Georgios A Pavlopoulos. "OnTheFly2.0: a text-mining web application for automated biomedical entity recognition, document annotation, network and functional enrichment analysis.", *Nar Genomics And Bioinformatics*, 3 - (4) - lqab090, [10.1093/nargab/lqab090](https://doi.org/10.1093/nargab/lqab090)
- Rachel Mendelsohn, Guadalupe C Garcia, Thomas M Bartol, Christopher T Lee, Priya Khandelwal, Emily Liu, Donald J Spencer, Adam Husar, Eric A Bushong, Sebastien Phan, Guy Perkins, Mark H Ellisman, **Alexander Skupin**, Terrence J Sejnowski, Padmini Rangamani. "Morphological principles of neuronal mitochondria.", *Journal Of Comparative Neurology*, 530 - (6) - 886-902, [10.1002/cne.25254](https://doi.org/10.1002/cne.25254)
- Theresa Luth, **Kobi Wasner**, Christine Klein, Susen Schaake, Ronnie Tse, **Sandro L Pereira**, Joshua Lass, Lasse Sinkkonen, **Anne Grunewald**, Joanne Trinh. "Nanopore Single-Molecule Sequencing for Mitochondrial DNA Methylation Analysis: Investigating Parkin-Associated Parkinsonism as a Proof of Concept.", *Frontiers In Aging Neuroscience*, 13 - 713084, [10.3389/fnagi.2021.713084](https://doi.org/10.3389/fnagi.2021.713084)
- **Beatriz Garcia Santa Cruz**, **Matias Nicolas Bossa**, **Jan Solter**, **Andreas Dominik Husch**. "Public Covid-19 X-ray datasets and their impact on model bias - A systematic review of a significant problem.", *Medical Image Analysis*, 74 - 102225, [10.1016/j.media.2021.102225](https://doi.org/10.1016/j.media.2021.102225)
- **Kathleen Mommaerts**, Eline A J Willemsse, Monica Marchese, Catherine Larue, Wiesje M van der Flier, Fay Betsou, Charlotte E Teunissen. "A Cystatin C Cleavage ELISA Assay as a Quality Control Tool for Determining Sub-Optimal Storage Conditions of Cerebrospinal Fluid Samples in Alzheimer's Disease Research.", *Journal Of Alzheimers Disease*, 83 - (3) - 1367-1377, [10.3233/JAD-210741](https://doi.org/10.3233/JAD-210741)
- Mahmoud Koko, **Roland Krause**, Thomas Sander, **Dheeraj Reddy Bobbili**, Michael Nothnagel, **Patrick May**, Holger Lerche, **Epi25 Collaborative**. "Distinct gene-set burden patterns underlie common generalized and focal epilepsies.", *Ebiomedicine*, 72 - 103588, [10.1016/j.ebiom.2021.103588](https://doi.org/10.1016/j.ebiom.2021.103588)
- Niklas Pfister, **Evan G. Williams**, Jonas Peters, Ruedi Aebersold, Peter Bühlmann. "Stabilizing variable selection and regression", *Annals Of Applied Statistics*, 15 - (3) - 1220-1246, [10.1214/21-AOAS1487](https://doi.org/10.1214/21-AOAS1487)
- Suheeta Roy, Maroun Bou Sleiman, Pooja Jha, Jesse F Ingels, Casey J Chapman, Melinda S McCarty, Jesse D Ziebarth, Michael Hook, Anna Sun, Wenyuan Zhao, Jinsong Huang, Sarah M Neuner, Lynda A Wilmott, Thomas M Shapaker, Arthur G Centeno, David G Ashbrook, Megan K Mulligan, Catherine C Kaczorowski, Liza Makowski, Yan Cui, Robert W Read, Richard A Miller, Khyobeni Mozhui, **Evan G Williams**, Saunak Sen, Lu Lu, Johan Auwerx, Robert W Williams. "Gene-by-environment modulation of lifespan and weight gain in the murine BXD family.", *Nature Metabolism*, 3 - (9) - 1217-1227, [10.1038/s42255-021-00449-w](https://doi.org/10.1038/s42255-021-00449-w)
- **Jessy Krier**, **Randolph R Singh**, **Todor Kondic**, **Adelene Lai**, Philippe Diderich, Jian Zhang, Paul A Thiessen, Evan E Bolton, **Emma L Schymanski**. "Discovering pesticides and their TPs in Luxembourg waters using open cheminformatics approaches.", *Environment International*, 158 - 106885, [10.1016/j.envint.2021.106885](https://doi.org/10.1016/j.envint.2021.106885)
- Mareike Neumann, Alex Steimle, Erica T Grant, Mathis Wolter, Amy Parrish, Stephanie Willieme, **Dirk Brenner**, Eric C Martens, Mahesh S Desai. "Deprivation of dietary fiber in specific-pathogen-free mice promotes susceptibility to the intestinal mucosal pathogen *Citrobacter rodentium*.", *Gut Microbes*, 13 - (1) - 1966263, [10.1080/19490976.2021.1966263](https://doi.org/10.1080/19490976.2021.1966263)
- Stilianos Fodelianakis, Alex D Washburne, Massimo Bourquin, Paraskevi Pramateftaki, Tyler J Kohler, Michail Styllas, Matteo Tolosano, Vincent De Staercke, Martina Schon, **Susheel Bhanu Busi**, Jade Brandani, **Paul Wilmes**, Hannes Peter, Tom J Battin. "Microdiversity characterizes prevalent phylogenetic clades in the glacier-fed stream microbiome.", *Isme Journal*, 16 - (3) - 666-75, [10.1038/s41396-021-01106-6](https://doi.org/10.1038/s41396-021-01106-6)
- Charles Auffray, **Rudi Balling**, Niklas Blomberg, Myrna C. Bonaldo, Bertrand Boutron, Samir Brahmachari, Christian Bréchet, Alfredo Cesario, Sai Juan Chen, Karine Clément, Daria Danilenko, Alberto Di Meglio, Andrea Gelemanov, **Carole Goble**, Takashi Gojobori, Jason D. Goldman, Michel Goldman, Yi Ke Guo, James Heath, Leroy Hood, Peter Hunter, Li Jin, Hiroaki Kitano, Bartha Knoppers, Doron Lancet, Catherine Larue, Mark Lathrop, Martine Laville, Ariel B. Lindner, Antoine Magnan, Andres Metspalu, Edgar Morin, Lisa F.P. Ng, Laurent Nicod, Denis Noble, Laurent Nottale, Helga Nowotny, Theresa Ochoa, Iruka N. Okeke, Tolu Oni, Peter Openshaw, Mehmet Oztürk, Susanna Palkonen, Janusz T. Paweska, Christophe Pison, Mihael H. Polymeropoulos, Christian Pristipino, Ulrike Protzer, Josep Roca, Damjana Rozman, Marc Santolini, Ferran Sanz, Giovanni Scambia, Eran Segal, Ismail Serageldin, Marcelo Bento Soares, Peter Sterk, Sumio Sugano, Giulio Superti-Furga, David Supple, Jesper Tegner, Mathias Uhlen, Andrea Urbani, Alfonso Valencia, Vincenzo Valentini,

- Sylvie van der Werf, Manlio Vinciguerra, Olaf Wolkenhauer, Emiel Wouters. "COVID-19 and beyond: a call for action and audacious solidarity to all the citizens and nations, it is humanity's fight", F1000Research, 9 - 1-18, [10.12688/F1000RESEARCH.26098.1](https://doi.org/10.12688/F1000RESEARCH.26098.1)
- Yajuan Gui, **Kamil Grzyb, Mélanie H. Thomas, Jochen Ohnmacht, Pierre Garcia, Manuel Buttini, Alexander Skupin**, Thomas Sauter, Lasse Sinkkonen. "Single-nuclei chromatin profiling of ventral midbrain reveals cell identity transcription factors and cell-type-specific gene regulatory variation.", Epigenetics & Chromatin, 14 - (1) - 43, [10.1186/s13072-021-00418-3](https://doi.org/10.1186/s13072-021-00418-3)
  - **Melanie H Thomas**, Yajuan Gui, **Pierre Garcia, Mona Karout, Borja Gomez Ramos, Christian Jaeger, Alessandro Michelucci**, Anhoula Gaigneaux, Heike Kollmus, Arthur Centeno, Klaus Schughart, **Rudi Balling, Michel Mittelbronn**, Joseph H Nadeau, Thomas Sauter, Robert W Williams, Lasse Sinkkonen, **Manuel Buttini**. "Quantitative trait locus mapping identifies a locus linked to striatal dopamine and points to collagen IV alpha-6 chain (COL4A6) as a novel regulator of striatal axonal branching in mice.", Genes Brain And Behavior, 20 - (8) - e12769, [10.1111/gbb.12769](https://doi.org/10.1111/gbb.12769)
  - **Valentina Galata, Susheel Bhanu Busi, Benoit Josef Kunath, Laura de Nies**, Magdalena Calusinska, **Rashi Halder, Patrick May, Paul Wilmes, Cedric Christian Laczny**. "Functional meta-omics provide critical insights into long- and short-read assemblies.", Briefings In Bioinformatics, 22 - (6) - [10.1093/bib/bbab330](https://doi.org/10.1093/bib/bbab330)
  - Katrine M Johannesen, Yuanyuan Liu, Mahmoud Koko, Cathrine E Gjerulfsen, Lukas Sonnenberg, Julian Schubert, Christina D Fenger, Ahmed Eltokhi, Maert Rannap, Nils A Koch, Stephan Lauxmann, Johanna Kruger, Josua Kegele, Laura Canafoglia, Silvana Franceschetti, Thomas Mayer, Johannes Rebstock, Pia Zacher, Susanne Ruf, Michael Alber, Katalin Sterbova, Petra Lassuthova, Marketa Vckova, Johannes R Lemke, Konrad Platzer, Ilona Krey, Constanze Heine, Dagmar Wiczorek, Judith Kroell-Seiger, Caroline Lund, Karl Martin Klein, P Y Billie Au, Jong M Rho, Alice W Ho, Silvia Masnada, Pierangelo Veggiotti, Lucio Giordano, Patrizia Accorsi, Christina E Hoei-Hansen, Pasquale Striano, Federico Zara, Helene Verhelst, Judith S Verhoeven, Bert van der Zwaag, Aster V E Harder, Eva Bristra, Manuela Pendziwiat, Sebastian Lebon, Maria Vaccarezza, Ngoc Minh Le, Jakob Christensen, Sabine Gronborg, Stephen W Scherer, Jennifer Howe, Walid Fazeli, Katherine B Howell, Richard Leventer, Chloe Stutterd, Sonja Walsh, Marion Gerard, Benedicte Gerard, Sara Matricardi, Claudia M Bonardi, Stefano Sartori, Andrea Berger, Dorota Hoffman-Zacharska, Massimo Mastrangelo, Francesca Darra, Arve Vollo, M Mahdi Motazacker, Phillis Lakeman, Mathilde Nizon, Cornelia Betzler, Cecilia Altuzarra, Roseline Caume, Agathe Roubertie, Philippe Gelisse, Carla Marini, Renzo Guerrini, Frederic Bilan, Daniel Tibussek, Margarete Koch-Hogrebe, M Scott Perry, Shoji Ichikawa, Elena Dadali, Artem Sharkov, Irina Mishina, Mikhail Abramov, Ilya Kanivets, Sergey Korostelev, Sergey Kutsev, Karen E Wain, Nancy Eisenhauer, Monisa Wagner, Juliann M Savatt, Karen Muller-Schluter, Haim Bassan, Artem Borovikov, Marie-Cecile Nassogne, Anne Destree, An-Sofie Schoonjans, Marije Meuwissen, Marga Buzatu, Anna Jansen, Emmanuel Scalais, Siddharth Srivastava, Wen-Hann Tan, Heather E Olson, Tobias Loddenkemper, Annapurna Poduri, Katherine L Helbig, Ingo Helbig, Mark P Fitzgerald, Ethan M Goldberg, Timo Roser, Ingo Borggraefe, Tobias Brunger, **Patrick May**, Dennis Lal, Damien Lederer, Guido Rubboli, Henrike O Heyne, Gaetan Lesca, Ulrike B S Hedrich, Jan Benda, Elena Gardella, Holger Lerche, Rikke S Moller. "Genotype-phenotype correlations in SCN8A-related disorders reveal prognostic and therapeutic implications.", Brain, 145 - (9) - 2991-3009, [10.1093/brain/awab321](https://doi.org/10.1093/brain/awab321)
  - Jelena Cuklina, Chloë H Lee, **Evan G Williams**, Tatjana Sajic, Ben C Collins, Maria Rodriguez Martinez, Varun S Sharma, Fabian Wendt, Sandra Goetze, Gregory R Keele, Bernd Wollscheid, Ruedi Aebersold, Patrick G A Pedrioli. "Diagnostics and correction of batch effects in large-scale proteomic studies: a tutorial.", Molecular Systems Biology, 17 - (8) - e10240, [10.15252/msb.202110240](https://doi.org/10.15252/msb.202110240)
  - **Françoise Kemp, Daniele Proverbio, Atte Aalto, Laurent Mombaerts, Aymeric Fouquier d'Hérouël, Andreas Husch**, Christophe Ley, **Jorge Gonçalves, Alexander Skupin, Stefano Magni**. "Modelling COVID-19 dynamics and potential for herd immunity by vaccination in Austria, Luxembourg and Sweden.", Journal Of Theoretical Biology, 530 - 110874, [10.1016/j.jtbi.2021.110874](https://doi.org/10.1016/j.jtbi.2021.110874)
  - **Johan Markdahl, Daniele Proverbio, La Mi, Jorge Goncalves**. "Almost global convergence to practical synchronization in the generalized Kuramoto model on networks over the n-sphere", Communications Physics, 4 - (1) - [10.1038/s42005-021-00689-y](https://doi.org/10.1038/s42005-021-00689-y)
  - Tony Heurtaux, Melanie Kirchmeyer, Eric Koncina, Paul Felten, Lorraine Richart, **Oihane Uriarte Huarte**, Herve Schohn, **Michel Mittelbronn**. "Apomorphine Reduces A53T alpha-Synuclein-Induced Microglial Reactivity Through Activation of NRF2 Signalling Pathway.", Cellular And Molecular Neurobiology, 42 - (8) - 2673-2695, [10.1007/s10571-021-01131-1](https://doi.org/10.1007/s10571-021-01131-1)
  - **Kathleen Mommaerts**, Camille Bellora, Pauline Lambert, Seval Turkmen, **Jens C Schwamborn**, Fay Betsou. "Method Optimization of Skin Biopsy-Derived Fibroblast Culture for Reprogramming Into Induced Pluripotent Stem Cells.", Biopreservation And Biobanking, 20 - (1) - 12-23, [10.1089/bio.2020.0159](https://doi.org/10.1089/bio.2020.0159)
  - **Céline Barlier**, Diego Barriaes, Alexey Samosyuk, Sascha Jung, **Srikanth Ravichandran**, Yulia A. Medvedeva, Juan Anguita, **Antonio del Sol**. "A Catalogus Immune Muris of the mouse immune responses to diverse pathogens.", Cell Death & Disease, 12 - (9) - 798, [10.1038/s41419-021-04075-y](https://doi.org/10.1038/s41419-021-04075-y)
  - Sisu Han, **Satoshi Okawa**, Grey Atteridge Wilkinson, Hussein Ghazale, Lata Adnani, Rajiv Dixit, Ligia Tavares, Imrul Faisal, Matthew J Brooks, Veronique Cortay, Dawn Zinyk, Adam Sivitilli, Saiqun Li, Faizan Malik, Yaroslav Ilynskyy, **Vladimir Espinosa Angarica**, Jinghua Gao, Vorapin Chinchalongporn, Ana-Maria Oproescu, Lakshmy Vasani, Yacine Touahri, Luke Ajay David, Eko Raharjo, Jung-Woong Kim, Wei Wu, Waleed Rahmani, Jennifer Ai-Wen Chan, Igor Kovalchuk, Liliana Attisano, Deborah Kurrasch, Colette Dehay, Anand Swaroop, Diogo S Castro, Jeff Biernaskie, **Antonio Del Sol**, Carol Schuurmans. "Proneural genes define ground-state rules to regulate neurogenic patterning and cortical folding.", Neuron, 109 - (18) - 2847-2863.e11, [10.1016/j.neuron.2021.07.007](https://doi.org/10.1016/j.neuron.2021.07.007)
  - **Junyang Jin**, Ye Yuan, **Jorge Goncalves**. "A Full Bayesian Approach to Sparse Network Inference Using Heterogeneous Datasets", IEEE Transactions On Automatic Control, 66 - (7) - 3282-3288, [10.1109/TAC.2020.3016964](https://doi.org/10.1109/TAC.2020.3016964)
  - Reza Aalizadeh, Nikiforos A Alygizakis, **Emma L Schymanski**, Martin Krauss, Tobias Schulze, Maria Ibanez, Andrew D McEachran, Alex Chao, Antony J Williams, Pablo Gago-Ferrero, Adrian Covaci, Christoph Moschet, Thomas M Young, Juliane Hollender, Jaroslav Slobodnik, Nikolaos S Thomaidis. "Development and Application of Liquid Chromatographic Retention Time Indices in HRMS-Based Suspect and Nontarget Screening.", Analytical Chemistry, 93 - (33) - 11601-11611, [10.1021/acs.analchem.1c02348](https://doi.org/10.1021/acs.analchem.1c02348)
  - Anika M Hartmann, Melanie Dell'Oro, Christian S Kessler, Dania Schumann, Nico Steckhan, Michael Jeitler, Jan Moritz Fischer, Michaela Spoo, Martin A Kriegel, **Jochen G Schneider**, Thomas Haupl, Farid I Kandil, Andreas Michalsen, Daniela A Koppold-Liebscher. "Efficacy of therapeutic fasting and plant-based diet in patients with rheumatoid arthritis (NutriFast): study protocol for a randomised controlled clinical trial.", Bmj Open, 11 - (8) - e047758, [10.1136/bmjopen-2020-047758](https://doi.org/10.1136/bmjopen-2020-047758)
  - Tatiana Usnich, Eva-Juliane Vollstedt, Nathalie Schell, Volha Skrahina, Xenia Bogdanovic, Hanaa Gaber, Toni M Forster, Andreas Heuer, Natalia Koleva-Alazeh, Ilona Csoti, Ayse Nazli Basak, Sibel Ertan, Gencer Genc, Peter Bauer, Katja Lohmann, **Anne Grunewald, Emma L Schymanski**, Joanne Trinh, Susen Schaake, Daniela Berg, Doreen Gruber, Stuart H Isaacson, Andrea A Kuhn, Brit Mollenhauer, David J Pedrosa, Kathrin Reetz, Esther M Sammler, Enza Maria Valente, Franco Valzania, Jens Volkmann, Simone Zittel, Norbert Bruggemann, Meike Kasten, Arndt Rolfs, Christine Klein, LIPAD Study Group. "LIPAD (LRRK2/Luebeck International Parkinson's Disease) Study Protocol: Deep Phenotyping of an International Genetic Cohort.", Frontiers In Neurology, 12 - 710572, [10.3389/fneur.2021.710572](https://doi.org/10.3389/fneur.2021.710572)



- Silke Zimmermann, Maria Beatriz Walter Costa, Akash Mathew, Shruthi Krishnan, **Jochen G. Schneider, Kirsten Roomp**, Berend Isermann, Ronald Biemann. "Osteocalcin Is Independently Associated with C-Reactive Protein during Lifestyle-Induced Weight Loss in Metabolic Syndrome.", *Metabolites*, 11 - (8) - [10.3390/metabo11080526](https://doi.org/10.3390/metabo11080526)
- Alexander Tobias Kaczmarek, Nike Bahlmann, Besarta Thaqi, **Patrick May**, Guenter Schwarz. "Machine learning-based identification and characterization of 15 novel pathogenic SUOX missense mutations.", *Molecular Genetics And Metabolism*, 134 - (1-2) - 188-194, [10.1016/j.ymgme.2021.07.011](https://doi.org/10.1016/j.ymgme.2021.07.011)
- **Armin Rauschenberger, Enrico Glaab**. "Predicting correlated outcomes from molecular data.", *Bioinformatics*, 37 - (21) - 3889-3895, [10.1093/bioinformatics/btab576](https://doi.org/10.1093/bioinformatics/btab576)
- Aaron C. Ericsson, **Susheel B. Busi**, Daniel J. Davis, Henda Nabli, David C. Eckhoff, Rebecca A. Dorfmeier, Giedre Turner, Payton S. Oswald, Marcus J. Crim, Elizabeth C. Bryda. "Molecular and culture-based assessment of the microbiome in a zebrafish (*Danio rerio*) housing system during set-up and equilibration.", *Animal Microbiome*, 3 - (1) - 55, [10.1186/s42523-021-00116-1](https://doi.org/10.1186/s42523-021-00116-1)
- **Enrico Glaab**, Ganesh Babu Manoharan, Daniel Abankwa. "Pharmacophore Model for SARS-CoV-2 3CLpro Small-Molecule Inhibitors and in Vitro Experimental Validation of Computationally Screened Inhibitors.", *Journal Of Chemical Information And Modeling*, 61 - (8) - 4082-4096, [10.1021/acs.jcim.1c00258](https://doi.org/10.1021/acs.jcim.1c00258)
- Cassandra Verheul, Ioannis Ntafoulis, Trisha V Kers, Youri Hoogstrate, Pier G Mastroberardino, Sander Barnhoorn, César Payán-Gómez, **Romain Tching Chi Yen**, Eduard A Struys, Stijn L W Koolen, Clemens M F Dirven, Sieger Leenstra, Pim J French, Martine L M Lamfers. "Generation, characterization, and drug sensitivities of 12 patient-derived IDH1-mutant glioma cell cultures.", *Neuro-Oncology Advances*, 3 - (1) - vdab103, [10.1093/naio/vdab103](https://doi.org/10.1093/naio/vdab103)
- Christophe M Capelle, Severine Cire, Wim Ammerlaan, Maria Konstantinou, **Rudi Balling**, Fay Betsou, Antonio Cosma, Markus Ollert, Feng Q Hefeng. "Standard Peripheral Blood Mononuclear Cell Cryopreservation Selectively Decreases Detection of Nine Clinically Relevant T Cell Markers.", *Immunohorizons*, 5 - (8) - 711-720, [10.4049/immunohorizons.2100049](https://doi.org/10.4049/immunohorizons.2100049)
- Michal Burzynski, Joel Machado, **Atte Aalto**, Michel Beine, **Jorge Goncalves**, Tom Haas, **Francoise Kemp, Stefano Magni, Laurent Mombaerts**, Pierre Picard, **Daniele Proverbio, Alexander Skupin**, Frederic Docquier. "COVID-19 crisis management in Luxembourg: Insights from an epidemionomic approach.", *Economics & Human Biology*, 43 - 101051, [10.1016/j.ehb.2021.101051](https://doi.org/10.1016/j.ehb.2021.101051)
- Ian Walsh, Dmytro Fishman, Dario Garcia-Gasulla, Tiina Titma, Gianluca Pollastri, Emidio Capriotti, Rita Casadio, Salvador Capella-Gutierrez, Davide Cirillo, Alessio Del Conte, Alexandros C. Dimopoulos, Victoria Dominguez Del Angel, Joaquin Dopazo, Piero Fariselli, José María Fernández, Florian Huber, Anna Kreshuk, Tom Lenaerts, Pier Luigi Martelli, Arcadi Navarro, Pilib Broin, Janet Piñero, Damiano Piovesan, Martin Reczko, Francesco Ronzano, **Venkata Satagopam**, Castrense Savojardo, Vojtech Spiwok, Marco Antonio Tangaro, Giacomo Tartari, David Salgado, Alfonso Valencia, Federico Zambelli, Jennifer Harrow, Fotis E. Psomopoulos, Silvio C.E. Tosatto. "DOME: recommendations for supervised machine learning validation in biology", *Nature Methods*, 18 - (10) - 1122-1127, [10.1038/s41592-021-01205-4](https://doi.org/10.1038/s41592-021-01205-4)
- Teatske M Altenburg, **Xinhui Wang**, Evi van Ekris, Lars Bo Andersen, Niels Christian Moller, Niels Wedderkopp, Mai J M Chinapaw. "The consequences of using different epoch lengths on the classification of accelerometer based sedentary behaviour and physical activity.", *Plos One*, 16 - (7) - e0254721, [10.1371/journal.pone.0254721](https://doi.org/10.1371/journal.pone.0254721)
- **Emma L Schymanski**, Evan E Bolton. "FAIR chemical structures in the Journal of Cheminformatics.", *Journal Of Cheminformatics*, 13 - (1) - 50, [10.1186/s13321-021-00520-4](https://doi.org/10.1186/s13321-021-00520-4)
- **Carlos Vega**. "From Hume to Wuhan: An Epistemological Journey on the Problem of Induction in COVID-19 Machine Learning Models and its Impact upon Medical Research", *Ieee Access*, 9 - 97243-50, [10.1109/ACCESS.2021.3095222](https://doi.org/10.1109/ACCESS.2021.3095222)
- **Francois Lamoline**. "Passivity of boundary controlled and observed stochastic port-Hamiltonian systems subject to multiplicative and input noise", *European Journal Of Control*, 62 - 41-46, [10.1016/j.ejcon.2021.06.010](https://doi.org/10.1016/j.ejcon.2021.06.010)
- **Anshika Chowdhary, Venkata Satagopam, Reinhard Schneider**. "Long Non-coding RNAs: Mechanisms, Experimental, and Computational Approaches in Identification, Characterization, and Their Biomarker Potential in Cancer.", *Frontiers In Genetics*, 12 - 649619, [10.3389/fgene.2021.649619](https://doi.org/10.3389/fgene.2021.649619)
- Anne Richelle, Benjamin P Kellman, Alexander T Wenzel, Austin W T Chiang, Tyler Reagan, Jahir M Gutierrez, Chintan Joshi, Shangzhong Li, Joanne K Liu, Helen Masson, Jooyong Lee, Zerong Li, **Laurent Heirendt, Christophe Trefois**, Edwin F Juarez, Tyler Bath, David Borland, Jill P Mesirov, Kimberly Robasky, Nathan E Lewis. "Model-based assessment of mammalian cell metabolic functionalities using omics data.", *Cell Reports Methods*, 1 - (3) - [10.1016/j.crmeth.2021.100040](https://doi.org/10.1016/j.crmeth.2021.100040)
- Fabiana Ribeiro, **Valerie E Schroder, Rejko Kruger**, Anja K Leist, **CON-VINCE Consortium**. "The evolution and social determinants of mental health during the first wave of the COVID-19 outbreak in Luxembourg.", *Psychiatry Research*, 303 - 114090, [10.1016/j.psychres.2021.114090](https://doi.org/10.1016/j.psychres.2021.114090)
- Philipp Hormann, **Sylvie Delcambre**, Jasmin Hanke, Robert Geffers, Marcel Leist, Karsten Hiller. "Impairment of neuronal mitochondrial function by L-DOPA in the absence of oxygen-dependent auto-oxidation and oxidative cell damage.", *Cell Death Discovery*, 7 - (1) - 151, [10.1038/s41420-021-00547-4](https://doi.org/10.1038/s41420-021-00547-4)
- Jie Zhu, Wenjuan Yang, Xiangda Zhou, Dorina Zophel, **Leticia Soriano-Bagué**, Denise Dolgener, Christopher Carlein, Chantal Hof, Renping Zhao, Shandong Ye, Eva C Schwarz, **Dirk Brenner**, Leticia Prates Roma, Bin Qu. "High Glucose Enhances Cytotoxic T Lymphocyte-Mediated Cytotoxicity.", *Frontiers In Immunology*, 12 - 689337, [10.3389/fimmu.2021.689337](https://doi.org/10.3389/fimmu.2021.689337)
- Gilbert Georg Klamminger, Jean-Jacques Gérardy, Finn Jelke, Giulia Mirizzi, Rédouane Slimani, Karoline Klein, **Andreas Husch, Frank Hertel, Michel Mittelbronn**, Felix B Kleine-Borgmann. "Application of Raman spectroscopy for detection of histologically distinct areas in formalin-fixed paraffin-embedded glioblastoma.", *Neuro-Oncology Advances*, 3 - (1) - vdab077, [10.1093/naio/vdab077](https://doi.org/10.1093/naio/vdab077)
- C Broderick, N Christian, C Apfelbacher, A L Bosma, N Dand, **S Ghosh**, N Hangel, M Hubenthal, M A Middelkamp-Hup, J L Min, A H Musters, L Paternoster, E Rodriguez, **V Satagopam**, P Scordis, P I Spuls, S Szymczak, S Weidinger, C H Smith, C Flohr, **BIOMAP consortium**. "The BIOMarkers in Atopic Dermatitis and Psoriasis (BIOMAP) glossary: developing a lingua franca to facilitate data harmonization and cross-cohort analyses.", *British Journal Of Dermatology*, 185 - (5) - 1066-1069, [10.1111/bjd.20587](https://doi.org/10.1111/bjd.20587)
- **Susana Martinez Arbas, Susheel Bhanu Busi, Pedro Queiros, Laura de Nies, Malte Herold, Patrick May, Paul Wilmes, Emilie E L Muller, Shaman Narayanasamy**. "Challenges, Strategies, and Perspectives for Reference-Independent Longitudinal Multi-Omic Microbiome Studies.", *Frontiers In Genetics*, 12 - 666244, [10.3389/fgene.2021.666244](https://doi.org/10.3389/fgene.2021.666244)
- Talent Chipiti, Alvaro M Viljoen, **Maria L Cordero-Maldonado**, Clinton G L Veale, Fanie R Van Heerden, Maxleene Sandasi, Weiyang Chen, **Alexander D Crawford**, Gill M Enslin. "Anti-seizure activity of African medicinal plants: The identification of bioactive alkaloids from the stem bark of *Rauvolfia caffra* using an in vivo zebrafish model.", *Journal Of Ethnopharmacology*, 279 - 114282, [10.1016/j.jep.2021.114282](https://doi.org/10.1016/j.jep.2021.114282)
- Sara Becker, **Claire Pauly**, Michael Lawton, **Geraldine Hipp**, Francesca Bowring, Patricia Sulzer, Michele Hu, **Rejko Kruger**, Thomas Gasser, Inga Liepelt-Scarfone. "Quantifying activities of daily living impairment in Parkinson's disease using the Functional Activities Questionnaire.", *Neurological*

Sciences, 43 - (2) - 1047-54, [10.1007/s10072-021-05365-1](https://doi.org/10.1007/s10072-021-05365-1)

- Stefan Wolking, Ciaran Campbell, Caragh Stapleton, Mark McCormack, Norman Delanty, Chantal Depondt, Michael R Johnson, Bobby P C Koeleman, **Roland Krause**, Wolfram S Kunz, Anthony G Marson, Josemir W Sander, Graeme J Sills, Pasquale Striano, Federico Zara, Sanjay M Sisodiya, Gianpiero L Cavalleri, Holger Lerche, **EpiPGX Consortium**. "Role of Common Genetic Variants for Drug-Resistance to Specific Anti-Seizure Medications.", *Frontiers In Pharmacology*, 12 - 688386, [10.3389/fphar.2021.688386](https://doi.org/10.3389/fphar.2021.688386)
- Holger R Roth, Ziyue Xu, Carlos Tor Diez, Ramon Sanchez Jacob, Jonathan Zember, Jose Molto, Wenqi Li, Sheng Xu, Baris Turkbey, Evrim Turkbey, Dong Yang, Ahmed Harouni, Nicola Rieke, Shishuai Hu, Fabian Isensee, Claire Tang, Qinji Yu, **Jan Solter**, Tong Zheng, Vitali Liauchuk, Ziqi Zhou, Jan Hendrik Moltz, Bruno Oliveira, Yong Xia, Klaus H Maier-Hein, Qikai Li, **Andreas Husch**, Luyang Zhang, Vassili Kovalev, Li Kang, Alessa Hering, Joao L Vilaca, Mona Flores, Daguang Xu, Bradford Wood, Marius George Linguraru. "Rapid Artificial Intelligence Solutions in a Pandemic - The COVID-19-20 Lung CT Lesion Segmentation Challenge.", *medRxiv*, [10.21203/rs.3.rs-571332/v1](https://doi.org/10.21203/rs.3.rs-571332/v1)
- **Sune S. Nielsen, Marek Ostaszewski**, Fintan McGee, **David Hoksza**, Simone Zorzan. "Machine Learning to Support the Presentation of Complex Pathway Graphs", *Ieee-Acm Transactions On Computational Biology And Bioinformatics*, 18 - (3) - 1130-1141, [10.1109/TCBB.2019.2938501](https://doi.org/10.1109/TCBB.2019.2938501)
- Anthony Hastir, **François Lamoline**. "Optimal equilibrium stabilization for a nonlinear infinite-dimensional plug-flow reactor model", *Automatica*, 130 - [10.1016/j.automatica.2021.109722](https://doi.org/10.1016/j.automatica.2021.109722)
- **Pedro Queirós, Francesco Delogu, Oskar Hickl, Patrick May, Paul Wilmes**. "Mantis: flexible and consensus-driven genome annotation.", *Gigascience*, 10 - (6) - 1-14, [10.1093/gigascience/giab042](https://doi.org/10.1093/gigascience/giab042)
- Mei-Hwa Lee, James L Thomas, Zi-Lin Su, Wen-Kuan Yeh, **Anna S Monzel, Silvia Bolognin, Jens C Schwamborn**, Chien-Hsin Yang, Hung-Yin Lin. "Transition metal dichalcogenides to optimize the performance of peptide-imprinted conductive polymers as electrochemical sensors.", *Microchimica Acta*, 188 - (6) - 203, [10.1007/s00604-021-04850-w](https://doi.org/10.1007/s00604-021-04850-w)
- Carla A. Gonçalves, Michael Larsen, Sascha Jung, Johannes Stratmann, Akiko Nakamura, Marit Leuschner, Lena Hersemann, Rashmiparvathi Keshara, Signe Perlman, Lene Lundvall, Lea Langhoff Thuesen, Kristine Juul Hare, Ido Amit, Anne Jørgensen, Yung Hae Kim, **Antonio del Sol**, Anne Grapin-Botton. "A 3D system to model human pancreas development and its reference single-cell transcriptome atlas identify signaling pathways required for progenitor expansion.", *Nature Communications*, 12 - (1) - 3144, [10.1038/s41467-021-23295-6](https://doi.org/10.1038/s41467-021-23295-6)
- David Lewis-Smith, Shiva Ganesan, Peter D Galer, Katherine L Helbig, Sarah E McKeown, Margaret O'Brien, Pouya Khankhanian, Michael C Kaufman, Alexander K Gonzalez, Alex S Felmeister, **Roland Krause**, Colin A Ellis, Ingo Helbig. "Phenotypic homogeneity in childhood epilepsies evolves in gene-specific patterns across 3251 patient-years of clinical data.", *European Journal Of Human Genetics*, 29 - (11) - 1690-1700, [10.1038/s41431-021-00908-8](https://doi.org/10.1038/s41431-021-00908-8)
- Stefan Wolking, Claudia Moreau, Mark McCormack, **Roland Krause**, Martin Krenn, Samuel Berkovic, Gianpiero L Cavalleri, Norman Delanty, Chantal Depondt, Michael R Johnson, Bobby P C Koeleman, Wolfram S Kunz, Holger Lerche, Anthony G Marson, Terence J O'Brien, Slave Petrovski, Josemir W Sander, Graeme J Sills, Pasquale Striano, Federico Zara, Fritz Zimprich, Sanjay M Sisodiya, Simon L Girard, Patrick Cossette, **EpiPGX Consortium**. "Assessing the role of rare genetic variants in drug-resistant, non-lesional focal epilepsy.", *Annals Of Clinical And Translational Neurology*, 8 - (7) - 1376-1387, [10.1002/acn3.51374](https://doi.org/10.1002/acn3.51374)
- **Daniele Proverbio, Françoise Kemp, Stefano Magni, Andreas Husch, Atte Aalto, Laurent Mombaerts, Alexander Skupin, Jorge Goncalves**, Jose Ameijeiras-Alonso, Christophe Ley. "Dynamical SPQIEIR model assesses the effectiveness of non-pharmaceutical interventions against COVID-19 epidemic outbreaks.", *Plos One*, 16 - (5) - e0252019, [10.1371/journal.pone.0252019](https://doi.org/10.1371/journal.pone.0252019)
- Mark A. van de Wiel, Mirrelij M. van Nee, **Armin Rauschenberger**. "Fast Cross-validation for Multi-penalty High-dimensional Ridge Regression", *Journal Of Computational And Graphical Statistics*, 30 - (4) - 835-847, [10.1080/10618600.2021.1904962](https://doi.org/10.1080/10618600.2021.1904962)
- Cyrielle Holuka, Chantal J Snoeck, Sophie B Meriaux, Markus Ollert, **Rejko Kruger**, Jonathan D Turner, **CON-VINCE Consortium**. "Adverse Life Trajectories Are a Risk Factor for SARS-CoV-2 IgA Seropositivity.", *Journal Of Clinical Medicine*, 10 - (10) - [10.3390/jcm10102159](https://doi.org/10.3390/jcm10102159)
- Michael Bernhofer, Christian Dallago, Tim Karl, **Venkata Satagopam**, Michael Heinzinger, Maria Littmann, Tobias Olenyi, Jiajun Qiu, Konstantin Schutze, Guy Yachdav, Haim Ashkenazy, Nir Ben-Tal, Yana Bromberg, Tatyana Goldberg, Laszlo Kajan, Sean O'Donoghue, Chris Sander, Andrea Schafferhans, Avner Schlessinger, Gerrit Vriend, Milot Mirdita, **Piotr Gawron, Wei Gu, Yohan Jarosz, Christophe Trefois**, Martin Steinegger, **Reinhard Schneider**, Burkhard Rost. "PredictProtein - Predicting Protein Structure and Function for 29 Years.", *Nucleic Acids Research*, 49 - (W1) - W535-40, [10.1093/nar/gkab354](https://doi.org/10.1093/nar/gkab354)
- Mariana G Ferrarini, Avantika Lal, Rita Rebollo, Andreas J Gruber, Andrea Guarracino, Itziar Martinez Gonzalez, Taylor Floyd, Daniel Siqueira de Oliveira, Justin Shanklin, Ethan Beausoleil, **Taneli Pusa**, Brett E Pickett, Vanessa Aguiar-Pulido. "Genome-wide bioinformatic analyses predict key host and viral factors in SARS-CoV-2 pathogenesis.", *Communications Biology*, 4 - (1) - 590, [10.1038/s42003-021-02095-0](https://doi.org/10.1038/s42003-021-02095-0)
- Philipp Helmer, Ellen Damm, Stephan Schiekofer, **Kirsten Roomp, Jochen G. Schneider**. "β3-integrin Leu33Pro gain of function variant does not modulate inflammatory activity in human derived macrophages in diabetes.", *International Journal Of Medical Sciences*, 18 - (12) - 2661-5, [10.7150/ijms.55648](https://doi.org/10.7150/ijms.55648)
- **Pedro Queiros, Polina Novikova, Paul Wilmes, Patrick May**. "Unification of functional annotation descriptions using text mining.", *Biological Chemistry*, 402 - (8) - 983-990, [10.1515/hsz-2021-0125](https://doi.org/10.1515/hsz-2021-0125)
- Ronald Biemann, Enrico Buß, Dirk Benndorf, Theresa Lehmann, Kay Schallert, Sebastian Püttker, Udo Reichl, Berend Isermann, **Jochen G. Schneider**, Gunter Saake, Robert Heyer. "Fecal Metaproteomics Reveals Reduced Gut Inflammation and Changed Microbial Metabolism Following Lifestyle-Induced Weight Loss.", *Biomolecules*, 11 - (5) - 726, [10.3390/biom11050726](https://doi.org/10.3390/biom11050726)
- **Patrycja Mulica, Anne Grunewald, Sandro L Pereira**. "Astrocyte-Neuron Metabolic Crosstalk in Neurodegeneration: A Mitochondrial Perspective.", *Frontiers In Endocrinology*, 12 - 668517, [10.3389/fendo.2021.668517](https://doi.org/10.3389/fendo.2021.668517)
- David Lewis-Smith, Peter D Galer, Ganna Balagura, Hugh Kearney, Shiva Ganesan, Mahgenn Cosico, Margaret O'Brien, Priya Vaidiswaran, **Roland Krause**, Colin A Ellis, Rhys H Thomas, Peter N Robinson, Ingo Helbig. "Modeling seizures in the Human Phenotype Ontology according to contemporary ILAE concepts makes big phenotypic data tractable.", *Epilepsia*, 62 - (6) - 1293-1305, [10.1111/epi.16908](https://doi.org/10.1111/epi.16908)
- **Alise Zagare, Matthieu Gobin, Anna S. Monzel, Jens C. Schwamborn**. "A robust protocol for the generation of human midbrain organoids", *Star Protocols*, 2 - (2) - 100524, [10.1016/j.xpro.2021.100524](https://doi.org/10.1016/j.xpro.2021.100524)
- Joel Mossong, **Laurent Mombaerts**, Lisa Veiber, Jessica Pastore, Gwenaëlle Le Coroller, Michael Schnell, Silvana Masi, Laetitia Huiart, **Paul Wilmes**. "SARS-CoV-2 transmission in educational settings during an early summer epidemic wave in Luxembourg, 2020.", *Bmc Infectious Diseases*, 21 - (1) - 417, [10.1186/s12879-021-06089-5](https://doi.org/10.1186/s12879-021-06089-5)
- **Epi25 Collaborative**. "Sub-genic intolerance, ClinVar, and the epilepsies: A whole-exome sequencing study of 29,165 individuals.", *American Journal Of Human Genetics*, 108 - (6) - 965-982, [10.1016/j.ajhg.2021.04.009](https://doi.org/10.1016/j.ajhg.2021.04.009)

- Theo Brillatz, **Maxime Jacmin**, Emerson F Queiroz, Laurence Marcourt, Hugo Morin, Nargess Shahbazi, Nathalie Boulens, Antonella Riva, **Alexander D Crawford**, Eric Allemann, Jean-Luc Wolfender. "Identification of Potential Antiseizure Agents in *Boswellia sacra* using In Vivo Zebrafish and Mouse Epilepsy Models.", *Acs Chemical Neuroscience*, 12 - (10) - 1791-1801, [10.1021/acschemneuro.1c00044](https://doi.org/10.1021/acschemneuro.1c00044)
- **Katja Badanjak, Sonja Fixemer, Semra Smajic, Alexander Skupin, Anne Grunewald**. "The Contribution of Microglia to Neuroinflammation in Parkinson's Disease.", *International Journal Of Molecular Sciences*, 22 - (9) - [10.3390/ijms22094676](https://doi.org/10.3390/ijms22094676)
- **Paul Wilmes**, Joël Mossong, Thomas G. Dentzer. "Generalisation of COVID-19 incidences provides a biased view of the actual epidemiological situation.", *Lancet Regional Health-Europe*, 5 - 100116, [10.1016/j.lanepe.2021.100116](https://doi.org/10.1016/j.lanepe.2021.100116)
- Takfarinas Kentache, Leopold Thabault, Gladys Deumer, Vincent Haufrond, Raphael Frederick, **Carole L Linster**, Alessio Peracchi, Maria Veiga-da-Cunha, Guido T Bommer, Emile Van Schaftingen. "The metalloprotein YhcH is an anomerase providing N-acetylneuraminase aldolase with the open form of its substrate.", *Journal Of Biological Chemistry*, 296 - 100699, [10.1016/j.jbc.2021.100699](https://doi.org/10.1016/j.jbc.2021.100699)
- Christophe M. Capelle, **Ni Zeng, Egle Danileviciute, Sabrina Freitas Rodrigues**, Markus Ollert, **Rudi Balling, Feng Q. He**. "Identification of VIMP as a gene inhibiting cytokine production in human CD4+ effector T cells", *Iscience*, 24 - (4) - 102289, [10.1016/j.isci.2021.102289](https://doi.org/10.1016/j.isci.2021.102289)
- Evangelos Karatzas, Fotis A Baltoumas, Nikolaos A Panayiotou, **Reinhard Schneider**, Georgios A Pavlopoulos. "Arena3Dweb: interactive 3D visualization of multilayered networks.", *Nucleic Acids Research*, 49 - (W1) - W36-45, [10.1093/nar/gkab278](https://doi.org/10.1093/nar/gkab278)
- Anna Niarakis, Martin Kuiper, **Marek Ostaszewski**, Rahuman S. Malik Sheriff, Cristina Casals-Casas, Denis Thieffry, Tom C. Freeman, Paul Thomas, Vasundra Touré, Vincent Noël, Gautier Stoll, Julio Saez-Rodriguez, Aurélien Naldi, Eugenia Oshurko, Ioannis Xenarios, Sylvain Soliman, Claudine Chaouiya, Tomáš Helikar, Laurence Calzone. "Setting the basis of best practices and standards for curation and annotation of logical models in biology - Highlights of the [BC]2 2019 CoLoMoTo/SysMod Workshop", *Briefings In Bioinformatics*, 22 - (2) - 1848-1859, [10.1093/bib/bbaa046](https://doi.org/10.1093/bib/bbaa046)
- Karsten Hiller, **Dirk Brenner**. "Editorial overview: Intrinsically tied: metabolism and immune cell function.", *Current Opinion In Biotechnology*, 68 - iii-v, [10.1016/j.copbio.2021.03.006](https://doi.org/10.1016/j.copbio.2021.03.006)
- Lina Badimon, Emma L Robinson, Amela Jusic, Irina Carpusca, Leon J de Windt, Costanza Emanuelli, Peter Ferdinandy, **Wei Gu**, Mariann Gyongyosi, Matthias Hackl, Kanita Karadzovic-Hadziabdic, Mitja Lustrek, Fabio Martelli, Eric Nham, Ines Potocnjak, **Venkata Satagopam, Reinhard Schneider**, Thomas Thum, Yvan Devaux, EU-CardioRNA COST Action CA17129. "Cardiovascular rna markers and artificial intelligence may improve covid-19 outcome: position paper from the eu-cardiorna cost action ca17129.", *Cardiovascular Research*, 117 - (8) - 1823-1840, [10.1093/cvr/cvab094](https://doi.org/10.1093/cvr/cvab094)
- Cindy Birck, Aurelien Ginolhac, Maria Angeliki S Pavlou, **Alessandro Michelucci**, Paul Heuschling, Luc Grandbarbe. "NF-kappaB and TNF Affect the Astrocytic Differentiation from Neural Stem Cells.", *Cells*, 10 - (4) - 840, [10.3390/cells10040840](https://doi.org/10.3390/cells10040840)
- **Alexander Mazein**, Adrien Rougny, Jonathan R Karr, Julio Saez-Rodriguez, **Marek Ostaszewski, Reinhard Schneider**. "Reusability and composability in process description maps: RAS-RAF-MEK-ERK signalling.", *Briefings In Bioinformatics*, 22 - (5) - [10.1093/bib/bbab103](https://doi.org/10.1093/bib/bbab103)
- Matthew J. Farrer, Soraya Bardien, Nobutaka Hattori, Suzanne Lesage, Owen A. Ross, George D. Mellick, **Rejko Kruger**, Genetic Epidemiology of Parkinson's Disease Consortium. "Editorial: Celebrating the Diversity of Genetic Research to Dissect the Pathogenesis of Parkinson's Disease.", *Frontiers In Neurology*, 12 - 648417, [10.3389/fneur.2021.648417](https://doi.org/10.3389/fneur.2021.648417)
- **Adelene Lai, Randolph R. Singh**, Lubomira Kovalova, Oliver Jaeggi, **Todor Kondi, Emma L. Schymanski**. "Retrospective non-target analysis to support regulatory water monitoring: from masses of interest to recommendations via in silico workflows", *Environmental Sciences Europe*, 33 - (1) - 43, [10.1186/s12302-021-00475-1](https://doi.org/10.1186/s12302-021-00475-1)
- Sana Amanat, Alvaro Gallego-Martinez, Joseph Sollini, Patricia Perez-Carpena, Juan M Espinosa-Sanchez, Ismael Aran, Andres Soto-Varela, Angel Batuecas-Caletrio, Barbara Canlon, **Patrick May**, Christopher R Cederroth, Jose A Lopez-Escamez. "Burden of rare variants in synaptic genes in patients with severe tinnitus: An exome based extreme phenotype study.", *Ebiomedicine*, 66 - 103309, [10.1016/j.ebiom.2021.103309](https://doi.org/10.1016/j.ebiom.2021.103309)
- **Oihane Uriarte Huarte**, Lorraine Richart, **Michel Mittelbronn**, Alessandro Michelucci. "Microglia in Health and Disease: The Strength to Be Diverse and Reactive.", *Frontiers In Cellular Neuroscience*, 15 - 660523, [10.3389/fncel.2021.660523](https://doi.org/10.3389/fncel.2021.660523)
- **Oihane Uriarte Huarte, Dimitrios Kyriakis**, Tony Heurtaux, Yolanda Pires-Afonso, **Kamil Grzyb, Rashi Halder, Manuel Buttini, Alexander Skupin, Michel Mittelbronn, Alessandro Michelucci**. "Single-Cell Transcriptomics and In Situ Morphological Analyses Reveal Microglia Heterogeneity Across the Nigrostriatal Pathway.", *Frontiers In Immunology*, 12 - 639613, [10.3389/fimmu.2021.639613](https://doi.org/10.3389/fimmu.2021.639613)
- Naita M Wirsik, Jakob Ehlers, Lisa Mader, Elena I Ilina, Anna-Eva Blank, Anne Grote, Friedrich Feuerhake, Peter Baumgarten, Kavi Devraj, Patrick N Harter, **Michel Mittelbronn**, Ulrike Naumann. "TGF-beta activates pericytes via induction of the epithelial-to-mesenchymal transition protein SLUG in glioblastoma.", *Neuropathology And Applied Neurobiology*, 47 - (6) - 768-780, [10.1111/nan.12714](https://doi.org/10.1111/nan.12714)
- **Giuseppe Arena**, Nazanine Modjtahedi, **Rejko Kruger**. "Exploring the contribution of the mitochondrial disulfide relay system to Parkinson's disease: the PINK1/CHCHD4 interplay.", *Neural Regeneration Research*, 16 - (11) - 2222-4, [10.4103/1673-5374.310679](https://doi.org/10.4103/1673-5374.310679)
- Jeroen Meijer, Marja Lamoree, Timo Hamers, Jean-Philippe Antignac, Sebastien Hutinet, Laurent Debrauwer, Adrian Covaci, Carolin Huber, Martin Krauss, Douglas I Walker, **Emma L Schymanski**, Roel Vermeulen, Jelle Vlaanderen. "An annotation database for chemicals of emerging concern in exposome research.", *Environment International*, 152 - 106511, [10.1016/j.envint.2021.106511](https://doi.org/10.1016/j.envint.2021.106511)
- Sandeep Grover, Ashwin Ashok Kumar-Sreelatha, **Dheeraj R Bobbili, Patrick May**, Cloe Domenighetti, Pierre-Emmanuel Sugier, Claudia Schulte, Alexis Elbaz, **Rejko Kruger**, Thomas Gasser, Manu Sharma, **COURAGE-PD Consortium, COURAGE-PD Consortium**. "Replication of a Novel Parkinson's Locus in a European Ancestry Population.", *Movement Disorders*, 36 - (7) - 1689-1695, [10.1002/mds.28546](https://doi.org/10.1002/mds.28546)
- Sarah J. Brown, **Ibrahim Boussaad, Javier Jarazo**, Julia C. Fitzgerald, **Paul Antony**, Marcus Keatinge, Janna Blechman, **Jens C. Schwamborn, Rejko Krüger**, Marysia Placzek, Oliver Bandmann. "PINK1 deficiency impairs adult neurogenesis of dopaminergic neurons.", *Scientific Reports*, 11 - (1) - 6617, [10.1038/s41598-021-84278-7](https://doi.org/10.1038/s41598-021-84278-7)
- Sofia Farina, Susanne Claus, Jack S. Hale, **Alexander Skupin**, Stéphane P.A. Bordas. "A cut finite element method for spatially resolved energy metabolism models in complex neuro-cell morphologies with minimal remeshing", *Advanced Modeling And Simulation In Engineering Sciences*, 8 - (1) - [10.1186/s40323-021-00191-8](https://doi.org/10.1186/s40323-021-00191-8)
- **Ilya Potapov**, Laura Garcia-Prat, **Srikanth Ravichandran**, Pura Munoz-Canoves, **Antonio Del Sol**. "Computational modelling of stem cell-niche interactions facilitates discovery of strategies to enhance tissue regeneration and counteract ageing.", *Febs Journal*, 289 - (6) - 1486-91, [10.1111/febs.15832](https://doi.org/10.1111/febs.15832)
- Anouke van Rumund, **Lukas Pavelka**, Rianne A J Esselink, Ben P M Geurtz, Ron A Wevers, Brit Mollenhauer, **Rejko Kruger**, Bastiaan R Bloem, Marcel M Verbeek. "Peripheral decarboxylase inhibitors paradoxically induce aromatic L-amino acid decarboxylase.", *Npj Parkinsons Disease*, 7 - (1) - 29, [10.1038/s41531-021-00172-z](https://doi.org/10.1038/s41531-021-00172-z)

- Solveig K Sieberts, Jennifer Schaff, Marlena Duda, Balint Armin Pataki, Ming Sun, Phil Snyder, Jean-Francois Daneault, Federico Parisi, Gianluca Costante, Udi Rubin, **Peter Banda**, Yooree Chae, Elias Chaibub Neto, E Ray Dorsey, Zafer Aydin, Aipeng Chen, Laura L Elo, Carlos Espino, **Enrico Glaab**, Ethan Goan, Fatemeh Noushin Golabchi, Yasin Gormez, Maria K Jaakkola, Jitendra Jonnagaddala, Riku Klen, Dongmei Li, Christian McDaniel, Dimitri Perrin, Thanneer M Perumal, Nastaran Mohammadian Rad, Erin Rainaldi, Stefano Sapienza, Patrick Schwab, Nikolai Shokhiev, Mikko S Venalainen, Gloria Vergara-Diaz, Yuqian Zhang, Yuanjia Wang, Yuanfang Guan, Daniela Brunner, Paolo Bonato, Lara M Mangravite, Larsson Omberg, **Parkinson's Disease Digital Biomarker Challenge Consortium**. "Crowdsourcing digital health measures to predict Parkinson's disease severity: the Parkinson's Disease Digital Biomarker DREAM Challenge.", *Npj Digital Medicine*, 4 - (1) - 53, [10.1038/s41746-021-00414-7](https://doi.org/10.1038/s41746-021-00414-7)
- Katherine Crawford, Julie Xian, Katherine L Helbig, Peter D Galer, Shridhar Parthasarathy, David Lewis-Smith, Michael C Kaufman, Eryn Fitch, Shiva Ganesan, Margaret O'Brien, **Veronica Codoni**, Colin A Ellis, Laura J Conway, Deanne Taylor, **Roland Krause**, Ingo Helbig. "Computational analysis of 10,860 phenotypic annotations in individuals with SCN2A-related disorders.", *Genetics In Medicine*, 23 - (7) - 1263-1272, [10.1038/s41436-021-01120-1](https://doi.org/10.1038/s41436-021-01120-1)
- **Mara Lucchetti**, Mathilda Kaminska, Aina Kehinde Oluwasegun, Alexander S. Mosig, **Paul Wilmes**. "Emulating the gut–liver axis: Dissecting the microbiome's effect on drug metabolism using multiorgan-on-chip models", *Current Opinion In Endocrine And Metabolic Research*, 18 - 94-101, [10.1016/j.coemr.2021.03.003](https://doi.org/10.1016/j.coemr.2021.03.003)
- Stefanie Klima, Markus Brull, Anna-Sophie Spreng, Ilinca Suciuc, Tjalda Falt, **Jens C Schwamborn**, Tanja Waldmann, Christiaan Karreman, Marcel Leist. "A human stem cell-derived test system for agents modifying neuronal N-methyl-D-aspartate-type glutamate receptor Ca(2+)-signalling.", *Archives Of Toxicology*, 95 - (5) - 1703-22, [10.1007/s00204-021-03024-0](https://doi.org/10.1007/s00204-021-03024-0)
- Sascha Jung, Evan Appleton, **Muhammad Ali**, George M Church, **Antonio Del Sol**. "A computer-guided design tool to increase the efficiency of cellular conversions.", *Nature Communications*, 12 - (1) - 1659, [10.1038/s41467-021-21801-4](https://doi.org/10.1038/s41467-021-21801-4)
- Elio Lopez-Garcia, Antonio Benitez-Cabello, **Javier Ramiro-Garcia**, Veronica Romero-Gil, Francisco Rodriguez-Gomez, Francisco Noe Arroyo-Lopez. "New Insights into Microbial Diversity of the Traditional Packed Table Olives Aloreña de Málaga through Metataxonomic Analysis.", *Microorganisms*, 9 - (3) - 561, [10.3390/microorganisms9030561](https://doi.org/10.3390/microorganisms9030561)
- **Emma L. Schymanski**, **Todor Kondi**, Steffen Neumann, Paul A. Thiessen, Jian Zhang, Evan E. Bolton. "Empowering large chemical knowledge bases for exposomics: PubChemLite meets MetFrag.", *Journal Of Cheminformatics*, 13 - (1) - 19, [10.1186/s13321-021-00489-0](https://doi.org/10.1186/s13321-021-00489-0)
- Fabian Kern, Tobias Fehlmann, Ivo Violich, Eric Alsop, Elizabeth Hutchins, Mustafa Kahraman, Nadja L. Grammes, Pedro Guimarães, Christina Backes, Kathleen L. Poston, Bradford Casey, **Rudi Balling**, **Lars Geffers**, **Rejko Krüger**, Douglas Galasko, Brit Mollenhauer, Eckart Meese, Tony Wyss-Coray, David W. Craig, Kendall Van Keuren-Jensen, Andreas Keller. "Deep sequencing of sncRNAs reveals hallmarks and regulatory modules of the transcriptome during Parkinson's disease progression", *Nature Aging*, 1 - (3) - 309-322, [10.1038/s43587-021-00042-6](https://doi.org/10.1038/s43587-021-00042-6)
- **Paul Wilmes**, Jacques Zimmer, Jasmin Schulz, Frank Glod, Lisa Veiber, **Laurent Mombaerts**, Bruno Rodrigues, **Atte Aalto**, Jessica Pastore, Chantal J. Snoeck, Markus Ollert, Guy Fagherazzi, Joël Mossong, **Jorge Goncalves**, **Alexander Skupin**, Ulf Nehrbass. "SARS-CoV-2 transmission risk from asymptomatic carriers: Results from a mass screening programme in Luxembourg.", *Lancet Regional Health-Europe*, 4 - 100056, [10.1016/j.lanepe.2021.100056](https://doi.org/10.1016/j.lanepe.2021.100056)
- Cristian Zanetti, Sarah Spitz, **Emanuel Berger**, **Silvia Bolognin**, **Lisa M Smits**, Philipp Crepaz, Mario Rothbauer, Julie M Rosser, Martina Marchetti-Deschmann, **Jens C Schwamborn**, Peter Ertl. "Monitoring the neurotransmitter release of human midbrain organoids using a redox cycling microsensor as a novel tool for personalized Parkinson's disease modelling and drug screening.", *Analyst*, 146 - (7) - 2358-2367, [10.1039/d0an02206c](https://doi.org/10.1039/d0an02206c)
- **Georgia D Kaprou**, Ieva Bergspica, Elena A Alexa, Avelino Alvarez-Ordóñez, Miguel Prieto. "Rapid Methods for Antimicrobial Resistance Diagnostics.", *Antibiotics-Basel*, 10 - (2) - 1-30, [10.3390/antibiotics10020209](https://doi.org/10.3390/antibiotics10020209)
- **Laura de Nies**, **Sara Lopes**, **Susheel Bhanu Busi**, **Valentina Galata**, **Anna Heintz-Buschart**, **Cedric Christian Laczny**, **Patrick May**, **Paul Wilmes**. "PathoFact: a pipeline for the prediction of virulence factors and antimicrobial resistance genes in metagenomic data.", *Microbiome*, 9 - (1) - 49, [10.1186/s40168-020-00993-9](https://doi.org/10.1186/s40168-020-00993-9)
- Ruth Chia, Marya S Sabir, Sara Bandres-Ciga, Sara Saez-Atienzar, Regina H Reynolds, Emil Gustavsson, Ronald L Walton, Sarah Ahmed, Coralie Viollet, Jinhui Ding, Mary B Makarios, Monica Diez-Fairen, Makayla K Portley, Zalak Shah, Yevgeniya Abramzon, Dena G Hernandez, Cornelis Blauwendraat, David J Stone, John Eicher, Laura Parkkinen, Olaf Ansorge, Lorraine Clark, Lawrence S Honig, Karen Marder, Afina Lemstra, Peter St George-Hyslop, Elisabet Londos, Kevin Morgan, Tammaryn Lashley, Thomas T Warner, Zane Jaunmuktane, Douglas Galasko, Isabel Santana, Pentti J Tienari, Liisa Myllykangas, Minna Oinas, Nigel J Cairns, John C Morris, Glenda M Halliday, Vivianna M Van Deerlin, John Q Trojanowski, Maurizio Grassano, Andrea Calvo, Gabriele Mora, Antonio Canosa, Gianluca Floris, Ryan C Bohannon, Francesca Brett, Ziv Gan-Or, Joshua T Geiger, Anni Moore, **Patrick May**, **Rejko Kruger**, David S Goldstein, Grisel Lopez, Nahid Tayebi, Ellen Sidransky, Lucy Norcliffe-Kaufmann, Jose-Alberto Palma, Horacio Kaufmann, Vikram G Shakkottai, Matthew Perkins, Kathy L Newell, Thomas Gasser, Claudia Schulte, Francesco Landi, Erika Salvi, Daniele Cusi, Eliezer Masliah, Ronald C Kim, Chad A Caraway, Edwin S Monuki, Maura Brunetti, Ted M Dawson, Liana S Rosenthal, Marilyn S Albert, Olga Pletnikova, Juan C Troncoso, Margaret E Flanagan, Qinwen Mao, Eileen H Bigio, Eloy Rodriguez-Rodriguez, Jon Infante, Carmen Lage, Isabel Gonzalez-Aramburu, Pascual Sanchez-Juan, Bernardino Ghetti, Julia Keith, Sandra E Black, Mario Masellis, Ekaterina Rogaeva, Charles Duyckaerts, Alexis Brice, Suzanne Lesage, Georgia Xiomerisiou, Matthew J Barrett, Bension S Tilley, Steve Gentleman, Giancarlo Logroscino, Geidy E Serrano, Thomas G Beach, Ian G McKeith, Alan J Thomas, Johannes Attems, Christopher M Morris, Laura Palmer, Seth Love, Claire Troakes, Safa Al-Sarraj, Angela K Hodges, Dag Aarsland, Gregory Klein, Scott M Kaiser, Randy Woltjer, Pau Pastor, Lynn M Bekris, James B Leverenz, Lilah M Besser, Amanda Kuzma, Alan E Renton, Alison Goate, David A Bennett, Clemens R Scherzer, Huw R Morris, Raffaele Ferrari, Diego Albani, Stuart Pickering-Brown, Kelley Faber, Walter A Kukull, Estrella Morenas-Rodriguez, Alberto Lleó, Juan Fortea, Daniel Alcolea, Jordi Clarimon, Mike A Nalls, Luigi Ferrucci, Susan M Resnick, Toshiko Tanaka, Tatiana M Foroud, Neill R Graff-Radford, Zbigniew K Wszolek, Tanis Ferman, Bradley F Boeve, John A Hardy, Eric J Topol, Ali Torkamani, Andrew B Singleton, Mina Ryten, Dennis W Dickson, Adriano Chio, Owen A Ross, J Raphael Gibbs, Clifton L Dalgard, Bryan J Traynor, Sonja W Scholz, American Genome Center. "Genome sequencing analysis identifies new loci associated with Lewy body dementia and provides insights into its genetic architecture.", *Nature Genetics*, 53 - (3) - 294-303, [10.1038/s41588-021-00785-3](https://doi.org/10.1038/s41588-021-00785-3)
- Isabel Moreno-Indias, Leo Lahti, Miroslava Nedyalkova, Ilze Elbere, Gennady Roshchupkin, Muhamed Adilovic, Onder Aydemir, Burcu Bakir-Gungor, Enrique Carrillo-de Santa Pau, Domenica D'Elia, Mahesh S. Desai, Laurent Falquet, Aycan Gundogdu, Karel Hron, Thomas Klammsteiner, Marta B. Lopes, Laura Judith Marcos-Zambrano, Cláudia Marques, Michael Mason, **Patrick May**, Lejla Pašić, Gianvito Pio, Sándor Pongor, Vasilis J. Promponas, Piotr Przymus, Julio Saez-Rodriguez, Alexia Sampri, Rajesh Shigdel, Blaz Stres, Ramona Suharoschi, Jaak Truu, Ciprian-Octavian Truică, Baiba Viilne, Dimitrios Vlachakis, Ercument Yilmaz, Georg Zeller, Aldert L. Zomer, David Gómez-Cabrero, Marcus J. Claesson, ML4Microbiome. "Statistical and Machine Learning Techniques in Human Microbiome Studies: Contemporary Challenges and Solutions", *Frontiers In Microbiology*, [10.3389/fmicb.2021.635781/full](https://doi.org/10.3389/fmicb.2021.635781/full)
- Medine I. Gulcebi, Emanuele Bartolini, Omay Lee, Christos Panagiotis Lisgaras, Filiz Onat, Janet Mifsud, Pasquale Striano, Annamaria Vezzani, Michael S. Hildebrand, Diego Jimenez-Jimenez, Larry Junck, David Lewis-Smith, Ingrid E. Scheffer, Roland D. Thijs, Sameer M. Zuberi, Stephen Blenkinsop, Hayley J. Fowler, Aideen Foley, Sanjay M. Sisodiya, Simona Balestrini, Samuel Berkovic, Gianpiero Cavalleri, Daniel José Correa, Helena Martins Custodio, Marian

Galovic, Renzo Guerrini, David Henshall, Olga Howard, Kelvin Hughes, Anna Katsarou, Bobby P.C. Koeleman, **Roland Krause**, Daniel Lowenstein, Despoina Mandelenaki, Carla Marini, Terence J. O'Brien, Adrian Pace, Luca De Palma, Piero Perucca, Asla Pitkänen, Finola Quinn, Kaja Kristine Selmer, Charles A. Steward, Nicola Swanborough, Roland Thijs, Phil Tittensor, Marina Trivisano, Sarah Weckhuysen, Federico Zara. "Climate change and epilepsy: Insights from clinical and basic science studies", *Epilepsy & Behavior*, 116 - 107791, [10.1016/j.yebeh.2021.107791](https://doi.org/10.1016/j.yebeh.2021.107791)

- Daniel J Kliionsky, Amal Kamal Abdel-Aziz, Sara Abdelfatah, Mahmoud Abdellatif, Asghar Abdoli, Steffen Abel, Hagai Abeliovich, Marie H Abildgaard, Yakubu Princely Abudu, Abraham Acevedo-Arozena, Iannis E Adamopoulos, Khosrow Adeli, Timon E Adolph, Annagrazia Adornetto, Elma Aflaki, Galila Agam, Anupam Agarwal, Bharat B Aggarwal, Maria Agnello, Patrizia Agostinis, Javed N Agrewala, Alexander Agrotis, Patricia V Aguilar, S Tariq Ahmad, Zubair M Ahmed, Ulises Ahumada-Castro, Sonja Aits, Shu Aizawa, Yunus Akkoc, Tonia Akoumianaki, Hafize Aysin Akpınar, Ahmed M Al-Abd, Lina Al-Akra, Abeer Al-Gharaibeh, Moulay A Alaoui-Jamali, Simon Alberti, Elisabet Alcocer-Gomez, Cristiano Alessandri, Muhammad Ali, M Abdul Alim Al-Bari, Saeb Aliwaini, Javad Alizadeh, Eugenia Almacellas, Alexandru Almasan, Alicia Alonso, Guillermo D Alonso, Nihal Altan-Bonnet, Dario C Altieri, Elida M C Alvarez, Sara Alves, Cristine Alves da Costa, Mazen M Alzaharna, Marialaura Amadio, Consuelo Amantini, Cristina Amaral, Susanna Ambrosio, Amal O Amer, Veena Ammanathan, Zhenyi An, Stig U Andersen, Shaida A Andrabi, Magaiver Andrade-Silva, Allen M Andres, Sabrina Angelini, David Ann, Uche C Anozie, Mohammad Y Ansari, Pedro Antas, Adam Antebi, Zurine Anton, Tahira Anwar, Lionel Apetoh, Nadezda Apostolova, Toshiyuki Araki, Yasuhiro Araki, Kohei Arasaki, Wagner L Araujo, Jun Araya, Catherine Arden, Maria-Angeles Arevalo, Sandro Arguelles, Esperanza Arias, Jyothi Arikkath, Hirokazu Arimoto, Aileen R Ariosa, Darius Armstrong-James, Laetitia Arnaune-Pelloquin, Angeles Aroca, Daniela S Arroyo, Ivica Arsov, Ruben Artero, Dalia Maria Lucia Asaro, Michael Aschner, Milad Ashrafizadeh, Osnat Ashur-Fabian, Atanas G Atanasov, Alicia K Au, Patrick Auberger, Holger W Auner, Laure Aurelian, Riccardo Autelli, Laura Avagliano, Yennifer Avalos, Sanja Aveic, Celia Alexandra Avelaira, Tamar Avin-Wittenberg, Yucel Aydin, Scott Ayton, Srinivas Ayyadevara, Maria Azzopardi, Misuzu Baba, Jonathan M Backer, Steven K Backues, Dong-Hun Bae, Ok-Nam Bae, Soo Han Bae, Eric H Baehrecke, Ahruem Baek, Seung-Hoon Baek, Sung Hee Baek, Giacinto Bagetta, Agnieszka Bagniewska-Zadworna, Hua Bai, Jie Bai, Xiyuan Bai, Yidong Bai, Nandadulal Bairagi, Shounak Baksi, Teresa Balbi, Cosima T Baldari, Walter Balduini, Andrea Ballabio, Maria Ballester, Salma Balazadeh, Rena Balzan, Rina Bandopadhyay, Sreeparna Banerjee, Sulagna Banerjee, Agnes Banreti, Yan Bao, Mauricio S Baptista, Alessandra Baracca, Cristiana Barbat, Ariadna Bargiela, Daniela Barila, Peter G Barlow, Sami J Barmada, Esther Barreiro, George E Barreto, Jiri Bartek, Bonnie Bartel, Alberto Bartolome, Gaurav R Barve, Suresh H Basagoudanavar, Diane C Bassham, Robert C Jr Bast, Alakananda Basu, Henri Batoko, Isabella Batten, Etienne E Baulieu, Bradley L Baumgarner, Jagadeesh Bayry, Rupert Beale, Isabelle Beau, Florian Beaumatin, Luiz R G Bechara, George R Jr Beck, Michael F Beers, Jakob Begun, Christian Behrends, Georg M N Behrens, Roberto Bei, Eloy Bejarano, Shai Bel, Christian Behl, Amine Belaid, Naima Belgareh-Touze, Cristina Bellarosa, Francesca Belleudi, Melissa Bello Perez, Raquel Bello-Morales, Jackeline Soares de Oliveira Beltran, Sebastian Beltran, Doris Mangiaracina Benbrook, Mykolas Bendorius, Bruno A Benitez, Irene Benito-Cuesta, Julien Bensalem, Martin W Berchtold, Sabina Berezowska, Daniele Bergamaschi, Matteo Bergami, Andreas Bergmann, Laura Berliocchi, Clarisse Berlioz-Torrent, Amelie Bernard, Lionel Berthou, Cagri G Besirli, Sebastien Besteiro, Virginie M Betin, Rudi Beyaert, Jelena S Bezbradica, Kiran Bhaskar, Ingrid Bhatia-Kissova, Resham Bhattacharya, Sujoy Bhattacharya, Shalmoli Bhattacharyya, Md Shenuarin Bhuiyan, Sujit Kumar Bhutia, Lanrong Bi, Xiaolin Bi, Trevor J Biden, Krikor Bijian, Viktor A Billes, Nadine Binart, Claudia Bincoletto, Asa B Birgisdottir, Geir Bjorkoy, Gonzalo Blanco, Ana Blas-Garcia, Janusz Blasiak, Robert Blomgran, Klas Blomgren, Janice S Blum, Emilio Boada-Romero, Mirita Boban, Kathleen Boesze-Battaglia, Philippe Boeuf, Barry Boland, Pascale Bomont, Paolo Bonaldo, Srinivasa Reddy Bonam, Laura Bonfili, Juan S Bonifacio, Brian A Boone, Martin D Bootman, Matteo Bordi, Christoph Borner, Beat C Bornhauser, Gautam Borthakur, Jurgen Bosch, Santanu Bose, Luis M Botana, Juan Botas, Chantal M Boulanger, Michael E Boulton, Mathieu Bourdenx, Benjamin Bourgeois, Nollaig M Bourke, Guilhem Bousquet, Patricia Boya, Peter V Bozhkov, Luiz H M Bozi, Tolga O Bozkurt, Doug E Brackney, Christian H Brandts, Ralf J Braun, Gerhard H Braus, Roberto Bravo-Sagua, Jose M Bravo-San Pedro, Patrick Brest, Marie-Agnes Bringer, Alfredo Briones-Herrera, V Courtney Broaddus, Peter Brodersen, Jeffrey L Brodsky, Steven L Brody, Paola G Bronson, Jeff M Bronstein, Carolyn N Brown, Rhoderick E Brown, Patricia C Brum, John H Brumell, Nicola Brunetti-Pierri, Daniele Bruno, Robert J Bryson-Richardson, Cecilia Bucci, Carmen Buchrieser, Marta Bueno, Laura Elisa Buitrago-Molina, Simone Buraschi, Shilpa Buch, J Ross Buchan, Erin M Buckingham, Hikmet Budak, Mauricio Budini, Geert Bultynck, Florin Burada, Joseph R Burgoyne, M Isabel Buron, Victor Bustos, Sabrina Buttner, Elena Butturini, Aaron Byrd, Isabel Cabas, Sandra Cabrera-Benitez, Ken Cadwell, Jingjing Cai, Lu Cai, Qian Cai, Montserrat Cairo, Jose A Calbet, Guy A Caldwell, Kim A Caldwell, Jarrod A Call, Riccardo Calvani, Ana C Calvo, Miguel Calvo-Rubio Barrera, Niels Os Camara, Jacques H Camonis, Nadine Camougrand, Michelangelo Campanella, Edward M Campbell, Francois-Xavier Campbell-Valois, Silvia Campello, Ilaria Campesi, Juliane C Campos, Olivier Camuzard, Jorge Cancino, Danilo Candido de Almeida, Laura Canesi, Isabella Caniggia, Barbara Canonico, Carles Canti, Bin Cao, Michele Caraglia, Beatriz Carames, Evie H Carchman, Elena Cardenal-Munoz, Cesar Cardenas, Luis Cardenas, Sandra M Cardoso, Jennifer S Carew, Georges F Carle, Gillian Carleton, Silvia Carloni, Didac Carmona-Gutierrez, Leticia A Carneiro, Oliana Carnevali, Julian M Carosi, Serena Carra, Alice Carrier, Lucie Carrier, Bernadette Carroll, A Brent Carter, Andreia Neves Carvalho, Magali Casanova, Caty Casas, Josefina Casas, Chiara Cassioli, Eliseo F Castillo, Karen Castillo, Sonia Castillo-Lluva, Francesca Castoldi, Marco Castori, Ariel F Castro, Margarida Castro-Caldas, Javier Castro-Hernandez, Susana Castro-Obregon, Sergio D Catz, Claudia Cavadas, Federica Cavaliere, Gabriella Cavallini, Maria Cavinato, Maria L Cayuela, Paula Cebollada Rica, Valentina Cecarini, Francesco Cecconi, Marzanna Cechowska-Pasko, Simone Cenci, Victoria Ceperuelo-Mallafre, Joao J Cerqueira, Janete M Cerutti, Davide Cervia, Vildan Bozok Cetintas, Silvia Cetrullo, Han-Jung Chae, Andrei S Chagin, Chee-Yin Chai, Gopal Chakrabarti, Oishee Chakrabarti, Tapas Chakraborty, Trinad Chakraborty, Mounia Chami, Georgios Chamilos, David W Chan, Edmond Y W Chan, Edward D Chan, H Y Edwin Chan, Helen H Chan, Hung Chan, Matthew T V Chan, Yau Sang Chan, Partha K Chandra, Chih-Peng Chang, Chunmei Chang, Hao-Chun Chang, Kai Chang, Jie Chao, Tracey Chapman, Nicolas Charlet-Berguerand, Samrat Chatterjee, Shail K Chaube, Anu Chaudhary, Santosh Chauhan, Edward Chaum, Frederic Checler, Michael E Cheetham, Chang-Shi Chen, Guang-Chao Chen, Jian-Fu Chen, Liam L Chen, Leilei Chen, Lin Chen, Mingliang Chen, Mu-Kuan Chen, Ning Chen, Quan Chen, Ruey-Hwa Chen, Shi Chen, Wei Chen, Weiqiang Chen, Xin-Ming Chen, Xiong-Wen Chen, Xu Chen, Yan Chen, Ye-Guang Chen, Yingyu Chen, Yongqiang Chen, Yu-Jen Chen, Yue-Qin Chen, Zhefan Stephen Chen, Zhi Chen, Zhi-Hua Chen, Zhijian J Chen, Zhixiang Chen, Hanhua Cheng, Jun Cheng, Shi-Yuan Cheng, Wei Cheng, Xiaodong Cheng, Xiu-Tang Cheng, Yiyun Cheng, Zhiyong Cheng, Zhong Chen, Heesun Cheong, Jit Kong Cheong, Boris V Chernyak, Sara Cherry, Chi Fai Randy Cheung, Chun Hei Antonio Cheung, King-Ho Cheung, Eric Chevet, Richard J Chi, Alan Kwok Shing Chiang, Ferdinando Chiaradonna, Roberto Chiarelli, Mario Chiariello, Nathalia Chica, Susanna Chiocca, Mario Chiong, Shih-Hwa Chiou, Abhilash I Chiramel, Valerio Chiurciu, Dong-Hyung Cho, Seong-Kyu Choe, Augustine M K Choi, Mary E Choi, Kamalika Roy Choudhury, Norman S Chow, Charleen T Chu, Jason P Chua, John Jia En Chua, Hyewon Chung, Kin Pan Chung, Seockhoon Chung, So-Hyang Chung, Yuen-Li Chung, Valentina Cianfanelli, Iwona A Ciechomska, Mariana Cifuentes, Laura Cinque, Sebahattin Cirak, Mara Cirone, Michael J Clague, Robert Clarke, Emilio Clementi, Eliana M Coccia, Patrice Codogno, Ehud Cohen, Mickael M Cohen, Tania Colasanti, Fiorella Colasuonno, Robert A Colbert, Anna Colell, Miodrag Colic, Nuria S Coll, Mark O Collins, Maria I Colombo, Daniel A Colon-Ramos, Lydie Combaret, Sergio Comincini, Marcia R Cominetti, Antonella Consiglio, Andrea Conte, Fabrizio Conti, Viorica Raluca Contu, Mark R Cookson, Kevin M Coombs, Isabelle Coppens, Maria Tiziana Corasaniti, Dale P Corkery, Nils Cordes, Katia Cortese, Maria do Carmo Costa, Sarah Costantino, Paola Costelli, Ana Coto-Montes, Peter J Crack, Jose L Crespo, Alfredo Criollo, Valeria Crippa, Riccardo Cristofani, Tamas Csizmadia, Antonio Cuadrado, Bing Cui, Jun Cui, Yixian Cui, Yong Cui, Emmanuel Culetto, Andrea C Cumino, Andrey V Cybulsky, Mark J Czaja, Stanislaw J Czuczwar, Stefania D'Adamo, Marcello D'Amelio, Daniela D'Arcangelo, Andrew C D'Lugos, Gabriella D'Orazi, James A da Silva, Hormos Salimi Dafsari, Ruben K Dagda, Yasin Dagdas, Maria Daglia, Xiaoxia Dai, Yun Dai, Yuyuan Dai, Jessica Dal Col, Paul Dalhaimer, Luisa Dalla Valle, Tobias Dallenga, Guillaume Dalmasso, Markus Damme, Ilaria Dando, Nico P Dantuma, April L Darling,

Hiranmoy Das, Srinivasan Dasarathy, Santosh K Dasari, Srikanta Dash, Oliver Daumke, Adrian N Dauphinee, Jeffrey S Davies, Valeria A Davila, Roger J Davis, Tanja Davis, Sharadha Dayalan Naidu, Francesca De Amicis, Karolien De Bosscher, Francesca De Felice, Lucia De Franceschi, Chiara De Leonibus, Mayara G de Mattos Barbosa, Guido R Y De Meyer, Angelo De Milito, Cosimo De Nunzio, Clara De Palma, Mauro De Santi, Claudio De Virgilio, Daniela De Zio, Jayanta Debnath, Brian J DeBosch, Jean-Paul Decuypere, Mark A Deehan, Gianluca Deflorian, James DeGregori, Benjamin Dehay, Gabriel Del Rio, Joe R Delaney, Lea M D Delbridge, Elizabeth Delorme-Axford, M Victoria Delpino, Francesca Demarchi, Vilma Dembitz, Nicholas D Demers, Hongbin Deng, Zhiqiang Deng, Joern Dengjel, Paul Dent, Donna Denton, Melvin L DePamphilis, Channing J Der, Vojo Deretic, Albert Descoteaux, Laura Devis, Sushil Devkota, Olivier Devuyt, Grant Dewson, Mahendiran Dharmasivam, Rohan Dhiman, Diego di Bernardo, Manlio Di Cristina, Fabio Di Domenico, Pietro Di Fazio, Alessio Di Fonzo, Giovanni Di Guardo, Gianni M Di Guglielmo, Luca Di Leo, Chiara Di Malta, Alessia Di Nardo, Martina Di Rienzo, Federica Di Sano, George Diallinas, Jiajie Diao, Guillermo Diaz-Araya, Ines Diaz-Laviada, Jared M Dickinson, Marc Diederich, Melanie Dieude, Ivan Dikic, Shiping Ding, Wen-Xing Ding, Luciana Dini, Jelena Dinic, Miroslav Dinic, Alben T Dinkova-Kostova, Marc S Dionne, Jorg H W Distler, Abhinav Diwan, Ian M C Dixon, Mojgan Djavaheri-Mergny, Ina Dobrinski, Oxana Dobrovinskaya, Radek Dobrowolski, Renwick C J Dobson, Jelena Dokic, Serap Dokmeci Emre, Massimo Donadelli, Bo Dong, Xiaonan Dong, Zhiwu Dong, Gerald W Dorn Li, Volker Dotsch, Huan Dou, Juan Dou, Moataz Dowaidar, Sami Dridi, Liat Drucker, Ailian Du, Caigan Du, Guangwei Du, Hai-Ning Du, Li-Lin Du, Andre du Toit, Shao-Bin Duan, Xiaojiong Duan, Sonia P Duarte, Anna Dubrovskaya, Elaine A Dunlop, Nicolas Dupont, Raul V Duran, Bilikere S Dwarakanath, Sergey A Dyshlovoy, Darius Ebrahimi-Fakhari, Leopold Eckhart, Charles L Edelstein, Thomas Efferth, Eftekhar Eftekharpour, Ludwig Eichinger, Nabil Eid, Tobias Eisenberg, N Tony Eissa, Sanaa Eissa, Miriam Ejarque, Abdeljabar El Andaloussi, Nazira El-Hage, Shahenda El-Naggar, Anna Maria Eleuteri, Eman S El-Shafey, Mohamed Elgendy, Aristides G Eliopoulos, Maria M Elizalde, Philip M Elks, Hans-Peter Elsasser, Eslam S Elsherbiny, Brooke M Emerling, N C Tolga Emre, Christina H Eng, Nikolai Engedal, Anna-Mart Engelbrecht, Agnete S T Engelsen, Jorrit M Enserink, Ricardo Escalante, Audrey Esclatine, Mafalda Escobar-Henriques, Eeva-Liisa Eskelinen, Lucile Espert, Makandjou-Ola Eusebio, Gemma Fabrias, Cinzia Fabrizi, Antonio Facchiano, Francesco Facchiano, Bengt Fadeel, Claudio Fader, Alex C Faesen, W Douglas Fairlie, Alberto Falco, Bjorn H Falkenburger, Daping Fan, Jie Fan, Yanbo Fan, Evandro F Fang, Yanshan Fang, Yognqi Fang, Manolis Fanto, Tamar Farfel-Becker, Mathias Faure, Gholamreza Fazeli, Anthony O Fedele, Arthur M Feldman, Du Feng, Jiachun Feng, Lifeng Feng, Yibin Feng, Yuchen Feng, Wei Feng, Thais Fenz Araujo, Thomas A Ferguson, Alvaro F Fernandez, Jose C Fernandez-Checa, Sonia Fernandez-Veledo, Alisdair R Fernie, Anthony W Jr Ferrante, Alessandra Ferraresi, Merari F Ferrari, Julio C B Ferreira, Susan Ferro-Novick, Antonio Figueras, Riccardo Filadi, Nicoletta Filigheddu, Eduardo Filippi-Chiela, Giuseppe Filomeni, Gian Maria Fimia, Vittorio Fineschi, Francesca Finetti, Steven Finkbeiner, Edward A Fisher, Paul B Fisher, Flavio Flamigni, Steven J Fliesler, Trude H Flo, Ida Florance, Oliver Florey, Tullio Florio, Erika Fodor, Carlo Follo, Edward A Fon, Antonella Forlino, Francesco Fornai, Paola Fortini, Anna Fracassi, Alessandro Fraldi, Brunella Franco, Rodrigo Franco, Flavia Franconi, Lisa B Frankel, Scott L Friedman, Leopold F Frohlich, Gema Fruhbeck, Jose M Fuentes, Yukio Fujiki, Naonobu Fujita, Yuuki Fujiwara, Mitsunori Fukuda, Simone Fulda, Luc Furic, Norihiko Furuya, Carmela Fusco, Michaela U Gack, Lidia Gaffke, Sehamuddin Galadari, Alessia Galasso, Maria F Galindo, Sachith Gallolu Kankanamalage, Lorenzo Galluzzi, Vincent Galy, Noor Gammo, Boyi Gan, Ian G Ganley, Feng Gao, Hui Gao, Minghui Gao, Ping Gao, Shou-Jiang Gao, Wentao Gao, Xiaobo Gao, Ana Garcera, Maria Noe Garcia, Veronica E Garcia, Francisco Garcia-Del Portillo, Vega Garcia-Escudero, Aracely Garcia-Garcia, Marina Garcia-Macia, Diana Garcia-Moreno, Carmen Garcia-Ruiz, Patricia Garcia-Sanz, Abhishek D Garg, Ricardo Gargini, Tina Garofalo, Robert F Garry, Nils C Gassen, Damian Gatica, Liang Ge, Wanzhong Ge, Ruth Geiss-Friedlander, Cecilia Gelfi, Pascal Genschik, Ian E Gentle, Valeria Gerbino, Christoph Gerhardt, Kyla Germain, Marc Germain, David A Gewirtz, Elham Ghasemipour Afshar, Saeid Ghavami, Alessandra Ghigo, Manosij Ghosh, Georgios Giamas, Claudia Giampietri, Alexandra Giatromanolaki, Gary E Gibson, Spencer B Gibson, Vanessa Ginet, Edward Giniger, Carlotta Giorgi, Henrique Girao, Stephen E Girardin, Mridhula Giridharan, Sandy Giuliano, Cecilia Giulivi, Sylvie Giuriato, Julien Giustiniani, Alexander Gluschko, Veit Goder, Alexander Goginashvili, Jakub Golab, David C Goldstone, Anna Golebiewska, Luciana R Gomes, Rodrigo Gomez, Ruben Gomez-Sanchez, Maria Catalina Gomez-Puerto, Raquel Gomez-Sintes, Qingqiu Gong, Felix M Goni, Javier Gonzalez-Gallego, Tomas Gonzalez-Hernandez, Rosa A Gonzalez-Polo, Jose A Gonzalez-Reyes, Patricia Gonzalez-Rodriguez, Ing Swie Goping, Marina S Gorbatyuk, Nikolai V Gorbunov, Kivanc Gorgulu, Roxana M Gorjod, Sharon M Gorski, Sandro Goruppi, Cecilia Gotor, Roberta A Gottlieb, Illana Gozes, Devrim Gozuacik, Martin Graef, Markus H Graler, Veronica Granatiero, Daniel Grasso, Joshua P Gray, Douglas R Green, Alexander Greenhough, Stephen L Gregory, Edward F Griffin, Mark W Grinstaff, Frederic Gros, Charles Grose, Angelina S Gross, Florian Gruber, Paolo Grumati, Tilman Grune, Xueyan Gu, Jun-Lin Guan, Carlos M Guardia, Kishore Guda, Flora Guerra, Consuelo Guerri, Prasun Guha, Carlos Guillen, Shashi Gujar, Anna Gukovskaya, Ilya Gukovsky, Jan Gunst, Andreas Gunther, Anyonya R Guntur, Chuanyong Guo, Chun Guo, Hongqing Guo, Lian-Wang Guo, Ming Guo, Pawan Gupta, Shashi Kumar Gupta, Swapnil Gupta, Veer Bala Gupta, Vivek Gupta, Asa B Gustafsson, David D Gutterman, Ranjitha H B, Annakaisa Haapasalo, James E Haber, Aleksandra Hac, Shinji Hadano, Anders J Hafren, Mansour Haidar, Belinda S Hall, Gunnell Hallden, Anne Hamacher-Brady, Andrea Hamann, Maho Hamasaki, Weidong Han, Malene Hansen, Phyllis I Hanson, Zijian Hao, Masaru Harada, Ljubica Harhaji-Trajkovic, Nirmala Hariharan, Nigil Haroon, James Harris, Takafumi Hasegawa, Noor Hasima Nagoor, Jeffrey A Haspel, Volker Hauke, Wayne D Hawkins, Bruce A Hay, Cole M Haynes, Soren B Hayrabyan, Thomas S Hays, Congcong He, Qin He, Rong-Rong He, You-Wen He, Yu-Ying He, Yasser Heakal, Alexander M Heberle, J Fielding Hejtmancik, Gudmundur Vignir Helgason, Vanessa Henkel, Marc Herb, Alexander Hergovich, Anna Herman-Antosiewicz, Agustin Hernandez, Carlos Hernandez, Sergio Hernandez-Diaz, Virginia Hernandez-Gea, Amaury Herpin, Judit Herreros, Javier H Hervas, Daniel Hesselson, Claudio Hetz, Volker T Heussler, Yujiro Higuchi, Sabine Hilfiker, Joseph A Hill, William S Hlavacek, Emmanuel A Ho, Idy H T Ho, Philip Wing-Lok Ho, Shu-Leong Ho, Wan Yun Ho, G Aaron Hobbs, Mark Hochstrasser, Peter H M Hoet, Daniel Hofius, Paul Hofman, Annika Hohn, Carina I Holmberg, Jose R Hombrebueno, Chang-Won Hong Yi-Ren Hong, Lora V Hooper, Thorsten Hoppe, Rastislav Horos, Yujin Hoshida, I-Lun Hsin, Hsin-Yun Hsu, Bing Hu, Dong Hu, Li-Fang Hu, Ming Chang Hu, Ronggui Hu, Wei Hu, Yu-Chen Hu, Zhuo-Wei Hu, Fang Hua, Jinlian Hua, Yingqi Hua, Chongmin Huan, Canhua Huang, Chuanshu Huang, Chuanxin Huang, Chunling Huang, Haishan Huang, Kun Huang, Michael L H Huang, Rui Huang, Shan Huang, Tianzhi Huang, Xing Huang, Yuxiang Jack Huang, Tobias B Huber, Virginie Hubert, Christian A Hubner, Stephanie M Hughes, William E Hughes, Magali Humbert, Gerhard Hummer, James H Hurley, Sabah Hussain, Salik Hussain, Patrick J Hussey, Martina Hutabarat, Hui-Yun Hwang, Seungmin Hwang, Antonio Ieni, Fumiyo Ikeda, Yusuke Imagawa, Yuzuru Imai, Carol Imbriano, Masaya Imoto, Denise M Inman, Ken Inoki, Juan Iovanna, Renato V Iozzo, Giuseppe Ippolito, Javier E Irazoqui, Pablo Iribarren, Mohd Ishaq, Makoto Ishikawa, Nestor Ishimwe, Ciro Isidoro, Nahed Ismail, Shohreh Issazadeh-Navikas, Eisuke Itakura, Daisuke Ito, Davor Ivankovic, Saska Ivanova, Anand Krishnan V Iyer, Jose M Izquierdo, Masanori Izumi, Marja Jaattela, Majid Sakhi Jabir, William T Jackson, Nadia Jacobo-Herrera, Anne-Claire Jacomin, Elise Jacquin, Pooja Jadiya, Hartmut Jaeschke, Chinnaswamy Jagannath, Arjen J Jakobi, Johan Jakobsson, Bassam Janji, Piddler Jansen-Durr, Patric J Jansson, Jonathan Jantsch, Slawomir Januszewski, Alagie Jassey, Steve Jean, Helene Jeltsch-David, Pavla Jendelova, Andreas Jenny, Thomas E Jensen, Niels Jessen, Jenna L Jewell, Jing Ji, Lijun Jia, Rui Jia, Liwen Jiang, Qing Jiang, Richeng Jiang, Teng Jiang, Xuejun Jiang, Yu Jiang, Maria Jimenez-Sanchez, Eun-Jung Jin, Fengyan Jin, Hongchuan Jin, Li Jin, Luqi Jin, Meiyang Jin, Si Jin, Eun-Kyeong Jo, Carine Joffre, Terje Johansen, Gail V W Johnson, Simon A Johnston, Eija Jokitalo, Mohit Kumar Jolly, Leo A B Joosten, Joaquin Jordan, Bertrand Joseph, Dianwen Ju, Jeong-Sun Ju, Jingfang Ju, Esmeralda Juarez, Delphine Judith, Gabor Juhasz, Youngsoo Jun, Chang Hwa Jung, Sung-Chul Jung, Yong Keun Jung, Heinz Jungbluth, Johannes Jungverdorben, Steffen Just, Kai Kaamiranta, Allen Kaasik, Tomohiro Kabuta, Daniel Kaganovich, Alon Kahana, Renate Kain, Shinjo Kajimura, Maria Kalamvoki, Manjula Kalia, Danuta S Kalinowski, Nina Kaludercic, Ioanna Kalvari, Joanna Kaminska, Vitaliy O Kaminsky, Hiromitsu Kanamori, Keizo Kanasaki, Chanhee Kang, Rui Kang, Sang Sun Kang, Senthilvelrajan Kaniyappan, Tomotake Kanki, Thirumala-Devi Kanneganti, Anumantha G Kanthasamy, Arthi Kanthasamy, Marc Kantorow, Orsolya Kapuy, Michalis V Karamouzis, Md Razaul Karim, Parimal Karmakar, Rajesh G Katare, Masaru Kato, Stefan H E Kaufmann, Anu

Kauppinen, Gur P Kaushal, Susmita Kaushik, Kiyoshi Kawasaki, Kemal Kazan, Po-Yuan Ke, Damien J Keating, Ursula Keber, John H Kehrl, Kate E Keller, Christian W Keller, Jongsook Kim Kemper, Candia M Kenific, Oliver Kepp, Stephanie Kermorgant, Andreas Kern, Robin Ketteler, Tom G Keulers, Boris Khalfin, Hany Khalil, Bilon Khambu, Shahid Y Khan, Vinoth Kumar Megraj Khandelwal, Rekha Khandia, Widuri Kho, Noopur V Khobrekar, Sataree Khuansuwan, Mukhran Khundadze, Samuel A Killackey, Dasol Kim, Deok Ryong Kim, Do-Hyung Kim, Dong-Eun Kim, Eun Young Kim, Eun-Kyoung Kim, Hak-Rim Kim, Hee-Sik Kim, Kim Hyung-Ryong, Jeong Hun Kim, Jin Kyung Kim, Jin-Hoi Kim, Joungmok Kim, Ju Hwan Kim, Keun Il Kim, Peter K Kim, Seong-Jun Kim, Scot R Kimball, Adi Kimchi, Alec C Kimmelman, Tomonori Kimura, Matthew A King, Kerri J Kinghorn, Conan G Kinsey, Vladimir Kirkin, Lorrie A Kirshenbaum, Sergey L Kiselev, Shuji Kishi, Katsuhiko Kitamoto, Yasushi Kitaoka, Kaio Kitazato, Richard N Kitsis, Josef T Kittler, Ole Kjærulff, Peter S Klein, Thomas Klopstock, Jochen Klucken, Helene Knaevelsrud, Roland L Knorr, Ben C B Ko, Fred Ko, Jiunn-Liang Ko, Hotaka Kobayashi, Satoru Kobayashi, Ina Koch, Jan C Koch, Ulrich Koenig, Donat Kogel, Young Ho Koh, Masato Koike, Sepp D Kohlwein, Nur M Kocatürk, Masaaki Komatsu, Jeannette König, Toru Kono, Benjamin T Kopp, Tamas Korcsmaros, Gozde Korkmaz, Viktor I Korolchuk, Monica Suarez Korsnes, Ali Koskela, Janaiah Kota, Yaichiro Kotake, Monica L Kotler, Yanjun Kou, Michael I Koukourakis, Evangelos Koustas, Attila L Kovacs, Tibor Kovacs, Daisuke Koya, Tomohiro Kozako, Claudine Kraft, Dimitri Krainc, Helmut Kramer, Anna D Krasnodemska, Carole Kretz-Remy, Guido Kroemer, Nicholas T Ktistakis, Kazuyuki Kuchitsu, Sabine Kuenen, Lars Kuerschner, Thomas Kukar, Ajay Kumar, Ashok Kumar, Deepak Kumar, Dhiraj Kumar, Sharad Kumar, Shinji Kume, Caroline Kumsta, Chanakya N Kundu, Mondira Kundu, Ajai Kumar B Kunnumakkara, Lukasz Kurgan, Tatiana G Kutateladze, Ozlem Kutlu, SeongAe Kwak, Ho Jeong Kwon, Taeg Kyu Kwon, Yong Tae Kwon, Irene Kyrnizi, Albert La Spada, Patrick Labonte, Sylvain Ladoire, Ilaria Laface, Frank Lafont, Diane C Lagace, Vikramjit Lahiri, Zhibing Lai, Angela S Laird, Aparna Lakkaraju, Trond Lamark, Sheng-Hui Lan, Ane Landajuela, Darius J R Lane, Jon D Lane, Charles H Lang, Carsten Lange, Ulo Langel, Rupert Langer, Pierre Lapaquette, Jocelyn Laporte, Nicholas F LaRusso, Isabel Lastres-Becker, Wilson Chun Yu Lau, Gordon W Laurie, Sergio Lavandero, Betty Yuen Kwan Law, Helen Ka-Wai Law, Rob Layfield, Weidong Le, Herve Le Stunff, Alexandre Y Leary, Jean-Jacques Lebrun, Lionel Y W Leck, Jean-Philippe Leduc-Gaudet, Changwook Lee, Chung-Pei Lee, Da-Hye Lee, Edward B Lee, Erinna F Lee, Gyun Min Lee, He-Jin Lee, Heung Kyu Lee, Jae Man Lee, Jason S Lee, Jin-A Lee, Joo-Yong Lee, Jun Hee Lee, Michael Lee, Min Goo Lee, Min Jae Lee, Myung-Shik Lee, Sang Yoon Lee, Seung-Jae Lee, Stella Y Lee, Sung Bae Lee, Won Hee Lee, Ying-Ray Lee, Yong-Ho Lee, Youngil Lee, Christophe Lefebvre, Renaud Legouis, Yu L Lei, Yuchen Lei, Sergey Leikin, Gerd Leitinger, Leticia Lemus, Shuilong Leng, Olivia Lenoir, Guido Lenz, Heinz Josef Lenz, Paola Lenzi, Yolanda Leon, Andreia M Leopoldino, Christoph Leschczyk, Stina Leskela, Elisabeth Letellier, Chi-Ting Leung, Po Sing Leung, Jeremy S Leventhal, Beth Levine, Patrick A Lewis, Klaus Ley, Bin Li, Da-Qiang Li, Jianming Li, Jing Li, Jiong Li, Ke Li, Liwu Li, Mei Li, Min Li, Min Li, Ming Li, Mingchuan Li, Pin-Lan Li, Ming-Qing Li, Qing Li, Sheng Li, Tiangang Li, Wei Li, Wenming Li, Xue Li, Yi-Ping Li, Yuan Li, Zhiqiang Li, Zhiyong Li, Zhiyuan Li, Jiqin Lian, Chengyu Liang, Qiangrong Liang, Weicheng Liang, Yongheng Liang, YongTian Liang, Guanghong Liao, Lujian Liao, Mingzhi Liao, Yung-Feng Liao, Mariangela Librizzi, Pearl P Y Lie, Mary A Lilly, Hyunjung J Lim, Thania R R Lima, Federica Limana, Chao Lin, Chih-Wen Lin, Dar-Shong Lin, Fu-Cheng Lin, Jiandie D Lin, Kurt M Lin, Kwang-Huei Lin, Liang-Tzung Lin, Pei-Hui Lin, Qiong Lin, Shaofeng Lin, Su-Ju Lin, Wenyu Lin, Xueying Lin, Yao-Xin Lin, Yee-Shin Lin, Rafael Linden, Paula Lindner, Shuo-Chien Ling, Paul Lingor, Amelia K Linnemann, Yih-Cherng Liou, Marta M Lipinski, Saska Lipovsek, Vitor A Lira, Natalia Lisiak, Paloma B Liton, Chao Liu, Ching-Hsuan Liu, Chun-Feng Liu, Cui Hua Liu, Fang Liu, Hao Liu, Hsiao-Sheng Liu, Hua-Feng Liu, Huifang Liu, Jia Liu, Jing Liu, Julia Liu, Leyuan Liu, Longhua Liu, Meilian Liu, Qin Liu, Wei Liu, Wende Liu, Xiao-Hong Liu, Xiaodong Liu, Xingguo Liu, Xu Liu, Xuedong Liu, Yanfen Liu, Yang Liu, Yang Liu, Yueyang Liu, Yule Liu, J Andrew Livingston, Gerard Lizard, Jose M Lizcano, Senka Ljubojevic-Holzer, Matilde E LLeonart, David Lobet-Navas, Alicia Llorente, Chih Hung Lo, Damian Lobato-Marquez, Qi Long, Yun Chau Long, Ben Loos, Julia A Loos, Manuela G Lopez, Guillermo Lopez-Domenech, Jose Antonio Lopez-Guerrero, Ana T Lopez-Jimenez, Oscar Lopez-Perez, Israel Lopez-Valero, Magdalena J Lorenowicz, Mar Lorente, Peter Lorincz, Laura Lossi, Sophie Lotersztajn, Penny E Lovat, Jonathan F Lovell, Alenka Lovy, Peter Low, Guang Lu, Haocheng Lu, Jia-Hong Lu, Jin-Jian Lu, Mengji Lu, Shuyan Lu, Alessandro Luciani, John M Lucocq, Paula Ludovico, Micah A Luftig, Morten Luhr, Diego Luis-Ravelo, Julian J Lum, Liany Luna-Dulcey, Anders H Lund, Viktor K Lund, Jan D Lunemann, Patrick Luningschorr, Honglin Luo, Rongcan Luo, Shouqing Luo, Zhi Luo, Claudio Luparello, Bernhard Luscher, Luan Luu, Alex Lyakhovich, Konstantin G Lyamzaev, Alf Hakon Lystad, Lyubomyr Lytvynchuk, Alvin C Ma, Changle Ma, Mengxiao Ma, Ning-Fang Ma, Quan-Hong Ma, Xinliang Ma, Yueyun Ma, Zhenyi Ma, Ormond A MacDougald, Fernando Macian, Gustavo C MacIntosh, Jeffrey P MacKeigan, Kay F Macleod, Sandra Maday, Frank Madeo, Muniswamy Madesh, Tobias Madl, Julio Madrigal-Matute, Akiko Maeda, Yasuhiro Maejima, Marta Magarinos, Poornima Mahavadi, Emiliano Maiani, Kenneth Maiese, Panchanan Maiti, Maria Chiara Maiuri, Barbara Majello, Michael B Major, Elena Makareeva, Fayaz Malik, Karthik Mallilankaraman, Walter Malorni, Alina Maloyan, Najiba Mammadova, Gene Chi Wai Man, Federico Manai, Joseph D Mancias, Eva-Maria Mandelkow, Michael A Mandell, Angelo A Manfredi, Masoud H Manjili, Ravi Manjithaya, Patricio Manque, Bella B Manshian, Raquel Manzano, Claudia Manzoni, Kai Mao, Cinzia Marchese, Sandrine Marchetti, Anna Maria Marconi, Fabrizio Marcucci, Stefania Mardente, Olga A Mareninova, Marta Margeta, Muriel Mari, Sara Marinelli, Oliviero Marinelli, Guillermo Marino, Sofia Mariotto, Richard S Marshall, Mark R Marten, Sascha Martens, Alexandre P J Martin, Katie R Martin, Sara Martin, Shaun Martin, Adrian Martin-Segura, Miguel A Martin-Acebes, Inmaculada Martin-Burriel, Marcos Martin-Rincon, Paloma Martin-Sanz, Jose A Martina, Wim Martinet, Aitor Martinez, Ana Martinez, Jennifer Martinez, Moises Martinez Velazquez, Nuria Martinez-Lopez, Marta Martinez-Vicente, Daniel O Martins, Joilson O Martins, Waleska K Martins, Tania Martins-Marques, Emanuele Marzetti, Shashank Masaldan, Celine Masclaux-Daubresse, Douglas G Mashek, Valentina Massa, Lourdes Massieu, Glenn R Masson, Laura Masuelli, Anatoliy I Masyuk, Tetyana V Masyuk, Paola Matarrese, Ander Matheu, Satoaki Matoba, Sachiko Matsuzaki, Pamela Mattar, Alessandro Matte, Domenico Mattosio, Jose L Mauriz, Mario Mauthe, Caroline Mauvezin, Emanuel Maverakis, Paola Maycotte, Johanna Mayer, Gianluigi Mazzocchi, Cristina Mazzoni, Joseph R Mazzulli, Nami McCarty, Christine McDonald, Mitchell R McGill, Sharon L McKenna, BethAnn McLaughlin, Fionn McLoughlin, Mark A McNiven, Thomas G McWilliams, Fatima Mechta-Grigoriou, Tania Catarina Medeiros, Diego L Medina, Lynn A Megeney, Klara Megyeri, Maryam Mehrpour, Jawahar L Mehta, Alfred J Meijer, Annemarie H Meijer, Jakob Mejlvang, Alicia Melendez, Annette Melk, Gonen Memisoglu, Alexandrina F Mendes, Delong Meng, Fei Meng, Tian Meng, Rubem Menna-Barreto, Manoj B Menon, Carol Mercer, Anne E Mercier, Jean-Louis Mergny, Adalberto Merighi, Seth D Merkley, Giuseppe Merla, Volker Meske, Ana Cecilia Mestre, Shree Padma Metur, Christian Meyer, Hemmo Meyer, Wenyi Mi, Jeanne Miallet-Perez, Junying Miao, Lucia Micale, Yasuo Miki, Enrico Milan, Malgorzata Milczarek, Dana L Miller, Samuel I Miller, Silke Miller, Steven W Millward, Ira Milosevic, Elena A Minina, Hamed Mirzaei, Hamid Reza Mirzaei, Mehdi Mirzaei, Amit Mishra, Nandita Mishra, Paras Kumar Mishra, Maja Misiric Marjanovic, Roberta Misasi, Amit Misra, Gabriella Misso, Claire Mitchell, Geraldine Mitou, Tetsuji Miura, Shigeki Miyamoto, Makoto Miyazaki, Mitsunori Miyazaki, Taiga Miyazaki, Keisuke Miyazawa, Noboru Mizushima, Trine H Mogensen, Baharia Mograbi, Reza Mohammadinejad, Yasir Mohamad, Abhishek Mohanty, Supra Mohapatra, Torsten Mohlmann, Asif Mohammed, Anna Moles, Kelle H Moley, Maurizio Molinari, Vincenzo Mollace, Andreas Buch Moller, Bertrand Mollereau, Faustino Mollinedo, Costanza Montagna, Mervyn J Monteiro, Andrea Montella, L Ruth Montes, Barbara Montico, Vinod K Mony, Giacomo Monzio Compagnoni, Michael N Moore, Mohammad A Moosavi, Ana L Mora, Marina Mora, David Morales-Alamo, Rosario Moratalla, Paula I Moreira, Elena Morelli, Sandra Moreno, Daniel Moreno-Blas, Viviana Moresi, Benjamin Morga, Alwena H Morgan, Fabrice Morin, Hideaki Morishita, Orson L Moritz, Mariko Moriyama, Yuji Moriyasu, Manuela Morleo, Eugenia Morselli, Jose F Moruno-Manchon, Jorge Moscat, Serge Mostowy, Elisa Motori, Andrea Felinto Moura, Naima Moustaid-Moussa, Maria Mrakovcic, Gabriel Mucino-Hernandez, Anupam Mukherjee, Subhadip Mukhopadhyay, Jean M Mulcahy Levy, Victoriano Mulero, Sylviane Muller, Christian Munch, Ashok Munjal, Pura Munoz-Canoves, Teresa Munoz-Galdeano, Christian Munz, Tomokazu Murakawa, Claudia Muratori, Brona M Murphy, J Patrick Murphy, Aditya Murthy, Timo T Myohanen, Indira U Mysorekar, Jennifer Mytych, Seyed Mohammad Nabavi, Massimo Nabissi, Peter Nagy, Jihoon Nah, Aimable Nahimana, Ichiro Nakagawa, Ken Nakamura, Hitoshi Nakatogawa, Shyam S Nandi, Meera Nanjundan, Monica Nanni, Gennaro Napolitano, Roberta Nardacci, Masashi Narita, Melissa Nassif, Ilana Nathan, Manabu Natsumeda, Ryno J Naude, Christin Naumann, Olaia

Naveiras, Fatemeh Navid, Steffan T Nawrocki, Taras Y Nazarko, Francesca Nazio, Florentina Negoita, Thomas Neill, Amanda L Neisch, Luca M Neri, Mihai G Netea, Patrick Neubert, Thomas P Neufeld, Dietbert Neumann, Albert Neutzner, Phillip T Newton, Paul A Ney, Ioannis P Nezis, Charlene C W Ng, Tzi Bun Ng, Hang T T Nguyen, Long T Nguyen, Hong-Min Ni, Cliona Ni Cheallaigh, Zhenhong Ni, M Celeste Nicolao, Francesco Nicoli, Manuel Nieto-Diaz, Per Nilsson, Shunbin Ning, Rituraj Niranjani, Hiroshi Nishimune, Mireia Niso-Santano, Ralph A Nixon, Annalisa Nobili, Clevio Nobrega, Takeshi Noda, Uxia Nogueira-Recalde, Trevor M Nolan, Ivan Nombela, Ivana Novak, Beatriz Novoa, Takashi Nozawa, Nobuyuki Nukina, Carmen Nussbaum-Krammer, Jesper Nylandsted, Tracey R O'Donovan, Seonadh M O'Leary, Eyleen J O'Rourke, Mary P O'Sullivan, Timothy E O'Sullivan, Salvatore Oddo, Ina Oehme, Michinaga Ogawa, Eric Ogier-Denis, Margret H Ogmundsdottir, Besim Ogretmen, Goo Taeg Oh, Seon-Hee Oh, Young J Oh, Takashi Ohama, Yohei Ohashi, Masaki Ohmuraya, Vasileios Oikonomou, Rani Ojha, Koji Okamoto, Hitoshi Okazawa, Masahide Oku, Sara Oliven, Jorge M A Oliveira, Michael Ollmann, James A Olzmann, Shakib Omari, M Bishr Omary, Gizem Onal, Martin Ondrej, Sang-Bing Ong, Sang-Ging Ong, Anna Onnis, Juan A Orellana, Sara Orellana-Munoz, Maria Del Mar Ortega-Villaizan, Xilma R Ortiz-Gonzalez, Elena Ortona, Heinz D Osiewicz, Abdel-Hamid K Osman, Rosario Osta, Marisa S Otegui, Kinya Otsu, Christiane Ott, Luisa Ottobri, Jing-Hsiung James Ou, Tiago F Outeiro, Inger Oynebraten, Melek Ozturk, Gilles Pages, Susanta Pahari, Marta Pajares, Utpal B Pajvani, Rituraj Pal, Simona Paladino, Nicolas Pallet, Michela Palmieri, Giuseppe Palmisano, Camilla Palumbo, Francesco Pampaloni, Lifeng Pan, Qingjun Pan, Wenliang Pan, Xin Pan, Ganna Panasyuk, Rahul Pandey, Udai B Pandey, Vrajesh Pandya, Francesco Paneni, Shirley Y Pang, Elisa Panzarini, Daniela L Papademetrio, Elena Papaleo, Daniel Papinski, Diana Papp, Eun Chan Park, Hwan Tae Park, Ji-Man Park, Jong-In Park, Joon Tae Park, Junsoo Park, Sang Chul Park, Sang-Youel Park, Abraham H Parola, Jan B Parys, Adrien Pasquier, Benoit Pasquier, Joao F Passos, Nunzia Pastore, Hemal H Patel, Daniel Patschan, Sophie Pattingre, Gustavo Pedraza-Alva, Jose Pedraza-Chaverri, Zully Pedrozo, Gang Pei, Jianming Pei, Hadas Peled-Zehavi, Joaquin M Pellegrini, Joffrey Pelletier, Miguel A Penalva, Di Peng, Ying Peng, Fabio Penna, Maria Pennuto, Francesca Pentimalli, Claudia Mf Pereira, Gustavo J S Pereira, Lilian C Pereira, Luis Pereira de Almeida, Nirma D Perera, Angel Perez-Lara, Ana B Perez-Oliva, Maria Esther Perez-Perez, Palsamy Periyasamy, Andras Perl, Cristiana Perrotta, Ida Perrotta, Richard G Pestell, Morten Petersen, Irina Petrache, Goran Petrovski, Thorsten Pfirrmann, Astrid S Pfister, Jennifer A Philips, Huifeng Pi, Anna Picca, Alicia M Pickrell, Sandy Picot, Giovanna M Pierantoni, Marina Pierdominici, Philippe Pierre, Valerie Pierrefite-Carle, Karolina Pierzynowska, Federico Pietrocola, Mirosława Pietruczuk, Claudio Pignata, Felipe X Pimentel-Muinos, Mario Pinar, Roberta O Pinheiro, Ronit Pinkas-Kramarski, Paolo Pinton, Karolina Pircs, Sujan Piya, Paola Pizzo, Theo S Plantinga, Harald W Platta, Ainhua Plaza-Zabala, Markus Plomann, Egor Y Plotnikov, Helene Plun-Favreau, Ryszard Pluta, Roger Pocock, Stefanie Poggeler, Christian Pohl, Marc Poirot, Angelo Poletti, Marisa Ponpuak, Hana Popelka, Blagovesta Popova, Helena Porta, Soledad Porte Alcon, Eliana Portilla-Fernandez, Martin Post, Malia B Potts, Joanna Poulton, Ted Powers, Veena Prahlad, Tomasz K Prajsnar, Domenico Pratico, Rosaria Prencipe, Muriel Priault, Tassula Proikas-Cezanne, Vasilis J Promponas, Christopher G Proud, Rosa Puertollano, Luigi Puglielli, Thomas Pulniikkunnil, Deepika Puri, Rajat Puri, Julien Puyal, Xiaopeng Qi, Yongmei Qi, Wenbin Qian, Lei Qiang, Yu Qiu, Joe Quadrilatero, Jorge Quarleri, Nina Raben, Hannah Rabinowich, Debora Ragona, Michael J Ragusa, Nader Rahimi, Marveh Rahmati, Valeria Raia, Nuno Raimundo, Namakkal-Soorappan Rajasekaran, Sriganesh Ramachandra Rao, Abdelhaq Rami, Ignacio Ramirez-Pardo, David B Ramsden, Felix Randow, Pundi N Rangarajan, Danilo Ranieri, Hai Rao, Lang Rao, Rekha Rao, Sumit Rathore, J Arjuna Ratnayaka, Edward A Ratovitski, Palaniyandi Ravanan, Gloria Ravegnini, Swapan K Ray, Babak Razani, Vito Rebecca, Fulvio Reggiori, Anne Regnier-Vigouroux, Andreas S Reichert, David Reigada, Jan H Reiling, Theo Rein, Siegfried Reipert, Rokeya Sultana Rekha, Hongmei Ren, Jun Ren, Weichao Ren, Tristan Renault, Giorgia Renga, Karen Reue, Kim Rewitz, Bruna Ribeiro de Andrade Ramos, S Amer Riazuddin, Teresa M Ribeiro-Rodrigues, Jean-Ehrland Ricci, Romeo Ricci, Victoria Riccio, Des R Richardson, Yasuko Rikihisa, Makarand V Risbud, Ruth M Risueno, Konstantinos Ritis, Salvatore Rizza, Rosario Rizzuto, Helen C Roberts, Luke D Roberts, Katherine J Robinson, Maria Carmela Roccheri, Stephane Rocchi, George G Rodney, Tiago Rodrigues, Vagner Ramon Rodrigues Silva, Amaia Rodriguez, Ruth Rodriguez-Barrueco, Nieves Rodriguez-Henche, Humberto Rodriguez-Rocha, Jeroen Roelofs, Robert S Rogers, Vladimir V Rogov, Ana I Rojo, Krzysztof Rolka, Vanina Romanello, Luigina Romani, Alessandra Romano, Patricia S Romano, David Romeo-Guitart, Luis C Romero, Montserrat Romero, Joseph C Roney, Christopher Rongo, Sante Roperto, Mathias T Rosenfeldt, Philip Rosenstiel, Anne G Rosenwald, Kevin A Roth, Lynn Roth, Steven Roth, Kasper M A Rouschop, Benoit D Roussel, Sophie Roux, Patrizia Rovere-Querini, Ajit Roy, Aurore Rozieres, Diego Ruano, David C Rubinsztein, Maria P Rubtsova, Klaus Ruckdeschel, Christoph Ruckenstuhl, Emil Rudolf, Rudiger Rudolf, Alessandra Ruggieri, Avnika Ashok Ruparelia, Paola Rusmini, Ryan R Russell, Gian Luigi Russo, Maria Russo, Rossella Russo, Oxana O Ryabaya, Kevin M Ryan, Kwon-Yul Ryu, Maria Sabater-Arcis, Ulka Sachdev, Michael Sacher, Carsten Sachse, Abhishek Sadhu, Junichi Sadoshima, Nathaniel Safren, Paul Saftig, Antonia P Sagona, Gaurav Sahay, Amirhossein Sahebkar, Mustafa Sahin, Ozgur Sahin, Sumit Sahn, Nayuta Saito, Shigeru Saito, Tsunenori Saito, Ryohei Sakai, Yasuyoshi Sakai, Jun-Ichi Sakamaki, Kalle Saksela, Gloria Salazar, Anna Salazar-Degracia, Ghasem H Salekdeh, Ashok K Saluja, Belem Sampaio-Marques, Maria Cecilia Sanchez, Jose A Sanchez-Alcazar, Victoria Sanchez-Vera, Vanessa Sancho-Shimizu, J Thomas Sanderson, Marco Sandri, Stefano Santaguida, Laura Santambrogio, Magda M Santana, Giorgio Santoni, Alberto Sanz, Pascual Sanz, Shweta Saran, Marco Sardiello, Timothy J Sargeant, Apurva Sarin, Chinmoy Sarkar, Sovan Sarkar, Maria-Rosa Sarrias, Surajit Sarkar, Dipanka Tanu Sarmah, Jaakko Sarparanta, Aishwarya Sathyanarayan, Ranganayaki Sathyanarayanan, K Matthew Scaglione, Francesca Scatozza, Liliana Schaefer, Zachary T Schafer, Ulrich E Schaible, Anthony H V Schapira, Michael Scharl, Hermann M Schatzl, Catherine H Schein, Wiep Scheper, David Scheuring, Maria Vittoria Schiaffino, Monica Schiappacassi, Rainer Schindl, Uwe Schlattner, Oliver Schmidt, Roland Schmitt, Stephen D Schmidt, Ingo Schmitz, Eran Schmukler, Anja Schneider, Bianca E Schneider, Romana Schober, Alejandra C Schoijet, Micah B Schott, Michael Schramm, Bernd Schroder, Kai Schuh, Christoph Schuller, Ryan J Schulze, Lea Schurmanns, **Jens C Schwamborn**, Melanie Schwarten, Filippo Scialo, Sebastiano Sciarretta, Melanie J Scott, Kathleen W Scotto, A Ivana Scovassi, Andrea Scrima, Aurora Scrivo, David Sebastian, Salwa Sebti, Simon Sedej, Laura Segatori, Nava Segev, Per O Seglen, Iban Seilliez, Ekihiro Seki, Scott B Selleck, Frank W Sellke, Joshua T Selsby, Michael Sendtner, Serif Senturk, Elena Seranova, Consolato Sergi, Ruth Serra-Moreno, Hiromi Sesaki, Carmine Settembre, Subba Rao Gangi Setty, Gianluca Sgarbi, Ou Sha, John J Shacka, Javeed A Shah, Dantong Shang, Changshun Shao, Feng Shao, Soroush Sharbati, Lisa M Sharkey, Dipali Sharma, Gaurav Sharma, Kulbhushan Sharma, Pawan Sharma, Surendra Sharma, Han-Ming Shen, Hongtao Shen, Jiangang Shen, Ming Shen, Weili Shen, Zheni Shen, Rui Sheng, Zhi Sheng, Zu-Hang Sheng, Jianjian Shi, Xiaobing Shi, Ying-Hong Shi, Kahori Shiba-Fukushima, Jeng-Jer Shieh, Yohta Shimada, Shigeomi Shimizu, Makoto Shimosawa, Takahiro Shintani, Christopher J Shoemaker, Shahla Shojaei, Ikuo Shoji, Bhupendra V Shrivage, Viji Shridhar, Chih-Wen Shu, Hong-Bing Shu, Ke Shui, Arvind K Shukla, Timothy E Shutt, Valentina Sica, Aleem Siddiqui, Amanda Sierra, Virginia Sierra-Torre, Santiago Signorelli, Payel Sil, Bruno J de Andrade Silva, Johnatas D Silva, Eduardo Silva-Pavez, Sandrine Silvente-Poirot, Rachel E Simmonds, Anna Katharina Simon, Hans-Uwe Simon, Matias Simons, Anurag Singh, Lalit P Singh, Rajat Singh, Shivendra V Singh, Shrawan K Singh, Sudha B Singh, Sunaina Singh, Surinder Pal Singh, Debasish Sinha, Rohit Anthony Sinha, Sangita Sinha, Agnieszka Sirko, Kapil Sirahi, Efthimios L Sivridis, Panagiotis Skendros, Aleksandra Skiryicz, Iva Slaninova, Soraya S Smaili, Andrei Smertenko, Matthew D Smith, Stefaan J Soenen, Eun Jung Sohn, Sophia P M Sok, Giancarlo Solaini, Thierry Soldati, Scott A Soleimanpour, Rosa M Soler, Alexei Solovchenko, Jason A Somarelli, Avinash Sonawane, Fuyong Song, Hyun Kyu Song, Ju-Xian Song, Kunhua Song, Zhiyin Song, Leandro R Soria, Maurizio Sorice, Alexander A Soukas, Sandra-Fausia Soukup, Diana Sousa, Nadia Sousa, Paul A Spagnuolo, Stephen A Spector, M M Srinivas Bharath, Daret St Clair, Venturina Stagni, Leopoldo Staiano, Clint A Stalneck, Metodi V Stankov, Peter B Stathopoulos, Katja Stefan, Sven Marcel Stefan, Leonidas Stefanis, Joan S Steffan, Alexander Steinkasserer, Harald Stenmark, Jared Sternecker, Craig Stevens, Veronika Stoka, Stephan Storch, Bjorn Stork, Flavie Strappazon, Anne Marie Strohecker, Dwayne G Stupack, Huanxing Su, Ling-Yan Su, Longxiang Su, Ana M Suarez-Fontes, Carlos S Subauste, Selvakumar Subbian, Paula V Subirada, Ganapasam Sudhandiran, Carolyn M Sue, Xinbing Sui, Corey Summers, Guangchao Sun, Jun Sun, Kang Sun, Meng-Xiang Sun, Qiming Sun, Yi Sun, Zhongjie Sun, Karen K S Sunahara, Eva Sundberg, Katalin Susztak, Peter Sutovsky, Hidekazu Suzuki, Gary Sweeney, J David Symons,



- Stephen Cho Wing Sze, Nathaniel J Szewczyk, Anna Tabecka-Lonczynska, Claudio Tabolacci, Frank Tacke, Heinrich Taegtmeier, Marco Tafani, Mitsuo Tagaya, Haoran Tai, Stephen W G Tait, Yoshinori Takahashi, Szabolcs Takats, Priti Talwar, Chit Tam, Shing Yau Tam, Davide Tampellini, Atsushi Tamura, Chong Teik Tan, Eng-King Tan, Ya-Qin Tan, Masaki Tanaka, Motomasa Tanaka, Daolin Tang, Jingfeng Tang, Tie-Shan Tang, Isei Tanida, Zhipeng Tao, Mohammed Taouis, Lars Tatenhorst, Nektarios Tavernarakis, Allen Taylor, Gregory A Taylor, Joan M Taylor, Elena Tcheta, Andrew R Tee, Irmgard Tegeder, David Teis, Natercia Teixeira, Fatima Teixeira-Clerc, Kumsal A Tekirdag, Tewin Tencomnao, Sandra Tenreiro, Alexei V Tepikin, Pilar S Testillano, Gianluca Tettamanti, Pierre-Louis Tharaux, Kathrin Thedieck, Arvind A Thekkinhat, Stefano Thellung, Josephine W Thinwa, V P Thirumalaikumar, Sufi Mary Thomas, Paul G Thomes, Andrew Thorburn, Lipi Thukral, Thomas Thum, Michael Thumm, Ling Tian, Ales Tichy, Andreas Till, Vincent Timmerman, Vladimir I Titorenko, Sokol V Todi, Krassimira Todorova, Janne M Toivonen, Luana Tomaipitca, Dhanendra Tomar, Cristina Tomas-Zapico, Sergej Tomic, Benjamin Chun-Kit Tong, Chao Tong, Xin Tong, Sharon A Tooze, Maria L Torgersen, Satoru Torii, Liliana Torres-Lopez, Alicia Torriglia, Christina G Towers, Roberto Towns, Shinya Toyokuni, Vladimir Trajkovic, Donatella Tramontano, Quynh-Giao Tran, Leonardo H Travassos, Charles B Trelford, Shirley Tremel, Ioannis P Trougakos, Betty P Tsao, Mario P Tschan, Hung-Fat Tse, Tak Fu Tse, Hitoshi Tsugawa, Andrey S Tsvetkov, David A Tumbarello, Yasin Tumtas, Maria J Tunon, Sandra Turcotte, Boris Turk, Vito Turk, Bradley J Turner, Richard I Tuxworth, Jessica K Tyler, Elena V Tyutereva, Yasuo Uchiyama, Aslihan Ugun-Klusek, Holm H Uhlig, Marzena Ulamek-Kozioł, Ilya V Ulasov, Midori Umekawa, Christian Ungermann, Rei Unno, Sylvie Urbe, Elisabet Uribe-Carretero, Suayib Ustun, Vladimir N Uversky, Thomas Vaccari, Maria I Vaccaro, Bjorn F Vahsen, Helin Vakifahmetoglu-Norberg, Rut Valdor, Maria J Valente, Ayelen Valko, Richard B Vallee, Angela M Valverde, Greet Van den Berghe, Stijn van der Veen, Luc Van Kaer, Jorg van Loosdregt, Sjoerd J L van Wijk, Wim Vandenberghe, Ilse Vanhorebeek, Marcos A Vannier-Santos, Nicola Vannini, M Cristina Vanrell, Chiara Vantaggiato, Gabriele Varano, Isabel Varela-Nieto, Mate Varga, M Helena Vasconcelos, Somya Vats, Demetrios G Vavvas, Ignacio Vega-Naredo, Silvia Vega-Rubin-de-Celis, Guillermo Velasco, Ariadna P Velazquez, Tibor Vellai, Edo Vellenga, Francesca Velotti, Mireille Verdier, Panayotis Verginis, Isabelle Vergne, Paul Verkade, Manish Verma, Patrik Verstreken, Tim Vervliet, Jorg Vervoorts, Alexandre T Vessoni, Victor M Victor, Michel Vidal, Chiara Vidoni, Otilia V Vieira, Richard D Vierstra, Sonia Viganò, Helena Vihinen, Vinoy Vijayan, Miquel Vila, Marçal Vilar, Jose M Villalba, Antonio Villalobo, Beatriz Villarejo-Zori, Francesc Villarroya, Joan Villarroya, Olivier Vincent, Cecile Vindis, Christophe Viret, Maria Teresa Viscomi, Dora Visnjic, Ilio Vitale, David J Vocadlo, Olga V Voitsekhovskaja, Cinzia Volonte, Mattia Volta, Marta Vomero, Clarissa Von Haefen, Marc A Vooijs, Wolfgang Voos, Ljubica Vucicevic, Richard Wade-Martins, Satoshi Waguri, Kenrick A Waite, Shuji Wakatsuki, David W Walker, Mark J Walker, Simon A Walker, Jochen Walter, Francisco G Wandosell, Bo Wang, Chao-Yung Wang, Chen Wang, Chenran Wang, Chenwei Wang, Cun-Yu Wang, Dong Wang, Fangyang Wang, Feng Wang, Fengming Wang, Guansong Wang, Han Wang, Hao Wang, Hexiang Wang, Hong-Gang Wang, Jianrong Wang, Jigang Wang, Jiou Wang, Jundong Wang, Kui Wang, Lianrong Wang, Liming Wang, Maggie Haitian Wang, Meiqing Wang, Nanbu Wang, Pengwei Wang, Peipei Wang, Ping Wang, Ping Wang, Qing Jun Wang, Qing Wang, Qing Kenneth Wang, Qiong A Wang, Wen-Tao Wang, Wuyang Wang, Xinnan Wang, Xuejun Wang, Yan Wang, Yanchang Wang, Yanzhuang Wang, Yen-Yun Wang, Yihua Wang, Yipeng Wang, Yu Wang, Yuqi Wang, Zhe Wang, Zhenyu Wang, Zhongguang Wang, Gary Warnes, Verena Warnsmann, Hirotaka Watada, Eizo Watanabe, Maxinne Watchon, Anna Wawrzynska, Timothy E Weaver, Grzegorz Wegrzyn, Ann M Wehman, Huafeng Wei, Lei Wei, Taotao Wei, Yongjie Wei, Oliver H Weiergraber, Conrad C Wehl, Gunther Weindl, Ralf Weiskirchen, Alan Wells, Runxia H Wen, Xin Wen, Antonia Werner, Beatrice Weykopf, Sally P Wheatley, J Lindsay Whitton, Alexander J Whitworth, Katarzyna Wiktorska, Manon E Wildenberg, Tom Wileman, Simon Wilkinson, Dieter Willbold, Brett Williams, Robin S B Williams, Roger L Williams, Peter R Williamson, Richard A Wilson, Beate Winner, Nathaniel J Winsor, Steven S Witkin, Harald Wodrich, Ute Woelbier, Thomas Wollert, Esther Wong, Jack Ho Wong, Richard W Wong, Vincent Kam Wai Wong, W Wei-Lynn Wong, An-Guo Wu, Chengbiao Wu, Jian Wu, Junfang Wu, Kenneth K Wu, Min Wu, Shan-Ying Wu, Shengzhou Wu, Shu-Yan Wu, Shufang Wu, William K K Wu, Xiaohong Wu, Xiaoqing Wu, Yao-Wen Wu, Yihua Wu, Ramnik J Xavier, Hongguang Xia, Lixin Xia, Zhengyuan Xia, Ge Xiang, Jin Xiang, Mingliang Xiang, Wei Xiang, Bin Xiao, Guozhi Xiao, Hengyi Xiao, Hong-Tao Xiao, Jian Xiao, Lan Xiao, Shi Xiao, Yin Xiao, Baoming Xie, Chuan-Ming Xie, Min Xie, Yuxiang Xie, Zhiping Xie, Zhonglin Xie, Maria Xilouri, Congfeng Xu, En Xu, Haoxing Xu, Jing Xu, JinRong Xu, Liang Xu, Wen Wen Xu, Xiulong Xu, Yu Xue, Sokhna M S Yakhine-Diop, Masamitsu Yamaguchi, Osamu Yamaguchi, Ai Yamamoto, Shunhei Yamashina, Shengmin Yan, Shian-Jang Yan, Zhen Yan, Yasuo Yanagi, Chuanbin Yang, Dun-Sheng Yang, Huan Yang, Huang-Tian Yang, Hui Yang, Jin-Ming Yang, Jing Yang, Jingyu Yang, Ling Yang, Liu Yang, Ming Yang, Pei-Ming Yang, Qian Yang, Seungwon Yang, Shu Yang, Shun-Fa Yang, Wannian Yang, Wei Yuan Yang, Xiaoyong Yang, Xuesong Yang, Yi Yang, Ying Yang, Honghong Yao, Shenggen Yao, Xiaoqiang Yao, Yong-Gang Yao, Yong-Ming Yao, Takahiro Yasui, Meysam Yazdankhah, Paul M Yen, Cong Yi, Xiao-Ming Yin, Yanhai Yin, Zhangyuan Yin, Ziyi Yin, Meidan Ying, Zheng Ying, Calvin K Yip, Stephanie Pei Tung Yiu, Young H Yoo, Kiyotsugu Yoshida, Saori R Yoshii, Tamotsu Yoshimori, Bahman Yousefi, Boxuan Yu, Haiyang Yu, Jun Yu, Jun Yu, Li Yu, Ming-Lung Yu, Seong-Woon Yu, Victor C Yu, W Haung Yu, Zhengping Yu, Zhou Yu, Junying Yuan, Ling-Qing Yuan, Shilin Yuan, Shyng-Shiou F Yuan, Yanggang Yuan, Zengqiang Yuan, Jianbo Yue, Zhenyu Yue, Jeanho Yun, Raymond L Yung, David N Zacks, Gabriele Zaffagnini, Vanessa O Zambelli, Isabella Zanella, Qun S Zang, Sara Zanivan, Silvia Zappavigna, Pilar Zaragoza, Konstantinos S Zerbatis, Amir Zarebkohan, Amira Zarrouk, Scott O Zeitlin, Jialiu Zeng, Ju-Deng Zeng, Eva Zerovnik, Lixuan Zhan, Bin Zhang, Donna D Zhang, Hanlin Zhang, Hong Zhang, Hong Zhang, Honghe Zhang, Huafeng Zhang, Huaye Zhang, Hui Zhang, Hui-Ling Zhang, Jianbin Zhang, Jianhua Zhang, Jing-Pu Zhang, Kalin Y B Zhang, Leshuai W Zhang, Lin Zhang, Lisheng Zhang, Lu Zhang, Luoying Zhang, Menghuan Zhang, Peng Zhang, Sheng Zhang, Wei Zhang, Xiangnan Zhang, Xiao-Wei Zhang, Xiaolei Zhang, Xiaoyan Zhang, Xin Zhang, Xinxin Zhang, Xu Dong Zhang, Yang Zhang, Yanjin Zhang, Yi Zhang, Ying-Dong Zhang, Yingmei Zhang, Yuan-Yuan Zhang, Yuchen Zhang, Zhe Zhang, Zhengguang Zhang, Zhibing Zhang, Zhihai Zhang, Zhiyong Zhang, Zili Zhang, Haobin Zhao, Lei Zhao, Shuang Zhao, Tongbiao Zhao, Xiao-Fan Zhao, Ying Zhao, Yongchao Zhao, Yongliang Zhao, Yuting Zhao, Guoping Zheng, Kai Zheng, Ling Zheng, Shizhong Zheng, Xi-Long Zheng, Yi Zheng, Zu-Guo Zheng, Boris Zhivotovsky, Qing Zhong, Ao Zhou, Ben Zhou, Cefan Zhou, Gang Zhou, Hao Zhou, Hong Zhou, Hongbo Zhou, Jie Zhou, Jing Zhou, Jing Zhou, Jiyong Zhou, Kailiang Zhou, Rongjia Zhou, Xu-Jie Zhou, Yanshuang Zhou, Yinghong Zhou, Yubin Zhou, Zheng-Yu Zhou, Zhou Zhou, Binglin Zhu, Changlian Zhu, Guo-Qing Zhu, Haining Zhu, Hongxin Zhu, Hua Zhu, Wei-Guo Zhu, Yanping Zhu, Yushan Zhu, Haixia Zhuang, Xiaohong Zhuang, Katarzyna Zientara-Rytter, Christine M Zimmermann, Elena Ziviani, Teresa Zoladek, Wei-Xing Zong, Dmitry B Zorov, Antonio Zorzano, Weiping Zou, Zhen Zou, Zhengzhi Zou, Steven Zuryn, Werner Zwerschke, Beate Brand-Saber, X Charlie Dong, Chandra Shekar Kenchappa, Zuguo Li, Yong Lin, Shigeru Oshima, Yueguang Rong, Judith C Sluimer, Christina L Stallings, Chun-Kit Tong. "Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition)", *Autophagy*, 17 - (1) - 1-382, [10.1080/15548627.2020.1797280](https://doi.org/10.1080/15548627.2020.1797280)
- Caterina Giovagnoni, **Muhammad Ali**, Lars M T Eijssen, Richard Maes, Kyonghwan Choe, Monique Mulder, Jos Kleinjans, **Antonio Del Sol**, **Enrico Glaab**, Diego Mastroeni, Elaine Delvaux, Paul Coleman, Mario Losen, Ehsan Pishva, Pilar Martinez-Martinez, Daniel L A van den Hove. "Altered sphingolipid function in Alzheimer's disease; a gene regulatory network approach.", *Neurobiology Of Aging*, 102 - 178-187, [10.1016/j.neurobiolaging.2021.02.001](https://doi.org/10.1016/j.neurobiolaging.2021.02.001)
  - **Pauline Mencke**, **Ibrahim Boussaad**, **Chiara D Romano**, **Toshimori Kitami**, **Carole L Linster**, **Rejko Kruger**. "The Role of DJ-1 in Cellular Metabolism and Pathophysiological Implications for Parkinson's Disease.", *Cells*, 10 - (2) - 1-17, [10.3390/cells10020347](https://doi.org/10.3390/cells10020347)
  - Apurva Badkas, Thanh-Phuong Nguyen, Laura Caberlotto, **Jochen G Schneider**, Sebastien De Landtsheer, Thomas Sauter. "Degree Adjusted Large-Scale Network Analysis Reveals Novel Putative Metabolic Disease Genes.", *Biology-Basel*, 10 - (2) - 1-17, [10.3390/biology10020107](https://doi.org/10.3390/biology10020107)
  - Sascha Jung, **Ilya Potapov**, Samyukta Chillara, **Antonio Del Sol**. "Leveraging systems biology for predicting modulators of inflammation in patients with COVID-19.", *Science Advances*, 7 - (6) - [10.1126/sciadv.abe5735](https://doi.org/10.1126/sciadv.abe5735)

- Romain Ragimbeau, Leila El Kebriti, Salwa Sebti, Elise Fourgous, Abdelhay Boulahtouf, **Giuseppe Arena**, Lucile Espert, Andrei Turtoi, Celine Gongora, Nadine Houede, Sophie Pattingre. "BAG6 promotes PINK1 signaling pathway and is essential for mitophagy.", *Faseb Journal*, 35 - (2) - e21361, [10.1096/fj.202000930R](https://doi.org/10.1096/fj.202000930R)
- Rebecca Czolk, Julia Klueber, Martin Sorensen, **Paul Wilmes**, Françoise Codreanu-Morel, Per Stahl Skov, Christiane Hilger, Carsten Bindslev-Jensen, Markus Ollert, Annette Kuehn. "IgE-Mediated Peanut Allergy: Current and Novel Predictive Biomarkers for Clinical Phenotypes Using Multi-Omics Approaches.", *Frontiers In Immunology*, 11 - 594350, [10.3389/fimmu.2020.594350](https://doi.org/10.3389/fimmu.2020.594350)
- Alberto Vogrig, Sarah Péricart, Anne-Laurie Pinto, Véronique Rogemond, Sergio Muñoz-Castrillo, Géraldine Picard, Marion Selton, **Michel Mittelbronn**, Hélène-Marie Lanoiselée, Patrick Michenet, Marie Benaiteau, Jérémie Pariente, Helene Zéphir, Caroline Giordana, Solveig Montaut, Hayet Salhi, Panagiotis Bachoumas, Alexis Montcuquet, Igor Letovanec, Emmanuelle Uro-Coste, Jérôme Honorat. "Immunopathogenesis and proposed clinical score for identifying Kelch-like protein-11 encephalitis.", *Brain Communications*, 3 - (3) - fcab185, [10.1093/braincomms/fcab185](https://doi.org/10.1093/braincomms/fcab185)
- **Remon Soliman, Maria Lorena Cordero-Maldonado, Teresa G. Martins, Mahsa Moein, Jean-François Conrotte**, Rebeccah A. Warmack, **Alexander Skupin**, Alexander D. Crawford, Steven G. Clarke, **Carole L. Linster**. "L-Isoaspartyl Methyltransferase Deficiency in Zebrafish Leads to Impaired Calcium Signaling in the Brain", *Frontiers In Genetics*, 11 - 612343, [10.3389/fgene.2020.612343](https://doi.org/10.3389/fgene.2020.612343)
- Kinza Rian, Marina Esteban-Medina, Marta R Hidalgo, Cankut Cubuk, Matias M Falco, Carlos Loucera, **Devrim Gunyel, Marek Ostaszewski**, Maria Pena-Chilet, Joaquin Dopazo. "Mechanistic modeling of the SARS-CoV-2 disease map.", *Biodata Mining*, 14 - (1) - 5, [10.1186/s13040-021-00234-1](https://doi.org/10.1186/s13040-021-00234-1)
- Christian Koelsche, Daniel Schrimpf, Damian Stichel, Martin Sill, Felix Sahm, David E Reuss, Mirjam Blattner, Barbara Worst, Christoph E Heilig, Katja Beck, Peter Horak, Simon Kreuzfeldt, Elke Paff, Sebastian Stark, Pascal Johann, Florian Selt, Jonas Ecker, Dominik Sturm, Kristian W Pajtler, Annkathrin Reinhardt, Annika K Wefers, Philipp Sievers, Azadeh Ebrahimi, Abigail Suwala, Francisco Fernandez-Klett, Belen Casalini, Andrey Korshunov, Volker Hovestadt, Felix K F Kommos, Mark Kriegsmann, Matthias Schick, Melanie Bewerunge-Hudler, Till Milde, Olaf Witt, Andreas E Kulozik, Marcel Kool, Laura Romero-Perez, Thomas G P Grunewald, Thomas Kirchner, Wolfgang Wick, Michael Platten, Andreas Unterberg, Matthias Uhl, Amir Abdollahi, Jurgen Debus, Burkhard Lehner, Christian Thomas, Martin Hasselblatt, Werner Paulus, Christian Hartmann, Ori Staszewski, Marco Prinz, Jurgen Hench, Stephan Frank, Yvonne M H Versleijen-Jonkers, Marije E Weidema, Thomas Mentzel, Klaus Griewank, Enrique de Alava, Juan Diaz Martin, Miguel A Idoate Gastearena, Kenneth Tou-En Chang, Sharon Yin Yee Low, Adrian Cuevas-Bourdier, **Michel Mittelbronn**, Martin Mynarek, Stefan Rutkowski, Ulrich Schuller, Viktor F Mautner, Jens Schittenhelm, Jonathan Serrano, Matija Snuderl, Reinhard Buttner, Thomas Klingebiel, Rolf Buslei, Manfred Gessler, Pieter Wesseling, Winand N M Dinjens, Sebastian Brandner, Zane Jaunmuktane, Iben Lyskjaer, Peter Schirmacher, Albrecht Stenzinger, Benedikt Brors, Hanno Glimm, Christoph Heining, Oscar M Tirado, Miguel Sainz-Jaspeado, Jaume Mora, Javier Alonso, Xavier Garcia Del Muro, Sebastian Moran, Manel Esteller, Jamal K Benhamida, Marc Ladanyi, Eva Wardelmann, Cristina Antonescu, Adrienne Flanagan, Uta Dirksen, Peter Hohenberger, Daniel Baumhoer, Wolfgang Hartmann, Christian Vokuhl, Uta Flucke, Iver Petersen, Gunhild Mechttersheimer, David Capper, David T W Jones, Stefan Frohling, Stefan M Pfister, Andreas von Deimling. "Sarcoma classification by DNA methylation profiling.", *Nature Communications*, 12 - (1) - 498, [10.1038/s41467-020-20603-4](https://doi.org/10.1038/s41467-020-20603-4)
- **Anne-Marie Hanff, Claire Pauly, Laure Pauly, Valerie E. Schröder**, Maxime Hansen, **Guilherme Ramos Meyers, Anne Kaysen**, Linda Hansen, Femke Wauters, **Rejko Krüger, NCER-PD**. "Unmet Needs of People With Parkinson's Disease and Their Caregivers During COVID-19-Related Confinement: An Explorative Secondary Data Analysis.", *Frontiers In Neurology*, 11 - 615172, [10.3389/fneur.2020.615172](https://doi.org/10.3389/fneur.2020.615172)
- **Ibrahim Boussaad, Gerald Cruciani, Silvia Bolognin, Paul Antony, Claire M Dording, Yong-Jun Kwon**, Peter Heutink, Eugenio Fava, **Jens C Schwamborn, Rejko Kruger**. "Integrated, automated maintenance, expansion and differentiation of 2D and 3D patient-derived cellular models for high throughput drug screening.", *Scientific Reports*, 11 - (1) - 1439, [10.1038/s41598-021-81129-3](https://doi.org/10.1038/s41598-021-81129-3)
- David G Ashbrook, Danny Arends, Pjotr Prins, Megan K Mulligan, Suheeta Roy, **Evan G Williams**, Cathleen M Lutz, Alicia Valenzuela, Casey J Bohl, Jesse F Ingels, Melinda S McCarty, Arthur G Centeno, Reinmar Hager, Johan Auwerx, Lu Lu, Robert W Williams. "A Platform for Experimental Precision Medicine: The Extended BXD Mouse Family.", *Cell Systems*, 12 - (3) - 235-247.e9, [10.1016/j.cels.2020.12.002](https://doi.org/10.1016/j.cels.2020.12.002)
- Gilbert Georg Klamminger, Karoline Klein, **Laurent Mombaerts**, Finn Jelke, Giulia Mirizzi, Rédouane Slimani, **Andreas Husch, Michel Mittelbronn, Frank Hertel, Felix B. Kleine Borgmann**. "Differentiation of primary CNS lymphoma and glioblastoma using Raman spectroscopy and machine learning algorithms", *Free Neuropathology*, 2 - [10.17879/freeneuropathology-2021-3458](https://doi.org/10.17879/freeneuropathology-2021-3458)
- **Henry Kurniawan, Takumi Kobayashi, Dirk Brenner**. "The emerging role of one-carbon metabolism in T cells.", *Current Opinion In Biotechnology*, 68 - 193-201, [10.1016/j.copbio.2020.12.001](https://doi.org/10.1016/j.copbio.2020.12.001)
- Patrick Cahan, Davide Cacchiarelli, Sara-Jane Dunn, Martin Hemberg, Susana M Chuva de Sousa Lopes, Samantha A Morris, Owen J L Rackham, **Antonio Del Sol**, Christine A Wells. "Computational Stem Cell Biology: Open Questions and Guiding Principles.", *Cell Stem Cell*, 28 - (1) - 20-32, [10.1016/j.stem.2020.12.012](https://doi.org/10.1016/j.stem.2020.12.012)
- Rick Helmus, Thomas L. ter Laak, Annemarie P. van Wezel, Pim de Voogt, **Emma L. Schymanski**. "patRoön: open source software platform for environmental mass spectrometry based non-target screening.", *Journal Of Cheminformatics*, 13 - (1) - 1, [10.1186/s13321-020-00477-w](https://doi.org/10.1186/s13321-020-00477-w)
- **Susheel Bhanu Busi, Laura de Nies, Janine Habier, Linda Wampach, Joëlle V. Fritz, Anna Heintz-Buschart, Patrick May, Rashi Halder, Carine de Beaufort, Paul Wilmes**. "Persistence of birth mode-dependent effects on gut microbiome composition, immune system stimulation and antimicrobial resistance during the first year of life.", *Isme Communications*, 1 - [10.1038/s43705-021-00003-5](https://doi.org/10.1038/s43705-021-00003-5)
- Finn Jelke, Giulia Mirizzi, Felix Kleine Borgmann, **Andreas Husch**, Rédouane Slimani, Gilbert Georg Klamminger, Karoline Klein, **Laurent Mombaerts**, Jean-Jacques Gérardy, **Michel Mittelbronn, Frank Hertel**. "Intraoperative discrimination of native meningioma and dura mater by Raman spectroscopy.", *Scientific Reports*, 11 - (1) - 23583, [10.1038/s41598-021-02977-7](https://doi.org/10.1038/s41598-021-02977-7)

## Letter

- Tim Van Den Bossche, Magnus O Arntzen, Dorte Becher, Dirk Benndorf, Vincent G H Eijsink, Celine Henry, Pratik D Jagtap, Nico Jehmlich, Catherine Juste, **Benoit J Kunath**, Bart Mesuere, Thilo Muth, Phillip B Pope, Jana Seifert, Alessandro Tanca, Sergio Uzzau, **Paul Wilmes**, Robert L Hettich, Jean Armengaud. "The Metaproteomics Initiative: a coordinated approach for propelling the functional characterization of microbiomes.", *Microbiome*, 9 - (1) - 243, [10.1186/s40168-021-01176-w](https://doi.org/10.1186/s40168-021-01176-w)

## 2020

## Book

- Matthias Ganzinger, **Enrico Glaab**, Jules Kerssemakers, Sven Nahnsen, Ulrich Sax, Nadine Sarah Scha, Matthieu-P Schapranow, Thorsten Tiede. "Biomedical and Clinical Research Data Management", Systems Medicine - Integrative, Qualitative and Computational Approaches, [10.1016/B978-0-12-801238-3.11621-6](https://doi.org/10.1016/B978-0-12-801238-3.11621-6)

## Conference Proceeding

- **Johan Markdahl**. "Consensus seeking gradient descent flows on boundaries of convex sets", Proceedings of the American Control Conference, 2020-July - 830-835, [10.23919/ACC45564.2020.9147648](https://doi.org/10.23919/ACC45564.2020.9147648)
- Hoang Nguyen, **Peter Banda**, Darko Stefanovic, Christof Teuscher. "Reservoir Computing with Random Chemical Systems", Artificial Life Conference Proceedings, The MIT Press Journals, (32) - [10.1162/isal\\_a\\_00324](https://doi.org/10.1162/isal_a_00324)
- **Atte Aalto, Jorge Goncalves**. "Linear system identification from ensemble snapshot observations", Proceedings of the IEEE Conference on Decision and Control, 2019-December - 7554-7559, [10.1109/CDC40024.2019.9029334](https://doi.org/10.1109/CDC40024.2019.9029334)

## Journal

- Andrea B Schote, Florian Schiel, Benedikt Schmitt, Ulrike Winnikes, Nicole Frank, Katharina Gross, Marie-Anne Croye, Ernesto Tarragon, Adam Bekhit, **Dheeraj Reddy Bobbili, Patrick May**, Christoph Schick, Jobst Meyer. "Genome-wide linkage analysis of families with primary hyperhidrosis.", Plos One, 15 - (12) - e0244565, [10.1371/journal.pone.0244565](https://doi.org/10.1371/journal.pone.0244565)
- **Camille Martin-Gallaussiaux, Antoine Malabirade, Janine Habier, Paul Wilmes**. "Fusobacterium nucleatum Extracellular Vesicles Modulate Gut Epithelial Cell Innate Immunity via FomA and TLR2.", Frontiers In Immunology, 11 - 583644, [10.3389/fimmu.2020.583644](https://doi.org/10.3389/fimmu.2020.583644)
- **Claire Pauly, Valerie Schröder, Laure Pauly**, Rejko Krüger, Anja Leist. "Mental Health Impact of the Confinement Measures During the COVID-19 Pandemic.", Innovation In Aging, 4 - (Suppl 1) - 952, [10.1093/geroni/igaa057.3484](https://doi.org/10.1093/geroni/igaa057.3484)
- **Wei Gu**, Samiul Hasan, Philippe Rocca-Serra, **Venkata P Satagopam**. "Road to effective data curation for translational research.", Drug Discovery Today, 26 - (3) - 626-630, [10.1016/j.drudis.2020.12.007](https://doi.org/10.1016/j.drudis.2020.12.007)
- **Alexander Mazein**, Olga Ivanova, Irina Balaur, **Marek Ostaszewski**, Valeriya Berzhitskaya, Tatiana Serebriyskaya, Thomas Ligon, Jan Hasenauer, Bertrand De Meulder, Rupert W Overall, Ludovic Roy, Richard G Knowles, Craig E Wheelock, Sven-Erik Dahlen, Kian Fan Chung, Ian M Adcock, Graham Roberts, Ratko Djukanovic, Johann Pellet, **Piotr Gawron, Rudi Balling**, Anke H Maitland-van der Zee, **Reinhard Schneider**, Peter J Sterk, Charles Auffray, **U-BIOPRED Study Group and the eTRIKS Consortium**. "AsthmaMap: an interactive knowledge repository for mechanisms of asthma.", Journal Of Allergy And Clinical Immunology, 147 - (3) - 853-856, [10.1016/j.jaci.2020.11.032](https://doi.org/10.1016/j.jaci.2020.11.032)
- Federica Bono, Veronica Mutti, Paola Devoto, **Silvia Bolognin, Jens C Schwamborn**, Cristina Missale, Chiara Fiorentini. "Impaired dopamine D3 and nicotinic acetylcholine receptor membrane localization in iPSCs-derived dopaminergic neurons from two Parkinson's disease patients carrying the LRRK2 G2019S mutation.", Neurobiology Of Aging, 99 - 65-78, [10.1016/j.neurobiolaging.2020.12.001](https://doi.org/10.1016/j.neurobiolaging.2020.12.001)
- Zuogong Yue, Johan Thunberg, Lennart Ljung, Ye Yuan, **Jorge Goncalves**. "System Aliasing in Dynamic Network Reconstruction: Issues on Low Sampling Frequencies", Ieee Transactions On Automatic Control, 66 - (12) - 5788-5801, [10.1109/TAC.2020.3042487](https://doi.org/10.1109/TAC.2020.3042487)
- Sebastian Kohler, Michael Gargano, Nicolas Matentzoglou, Leigh C Carmody, David Lewis-Smith, Nicole A Vasilevsky, Daniel Danis, Ganna Balagura, Gareth Baynam, Amy M Brower, Tiffany J Callahan, Christopher G Chute, Johanna L Est, Peter D Galer, Shiva Ganesan, Matthias Griese, Matthias Haimel, Julia Pazmandi, Marc Hanauer, Nomi L Harris, Michael J Hartnett, Maximilian Hastreiter, Fabian Hauck, Yongqun He, Tim Jeske, Hugh Kearney, Gerhard Kindle, Christoph Klein, Katrin Knoflach, **Roland Krause**, David Lagorce, Julie A McMurry, Jillian A Miller, Monica C Munoz-Torres, Rebecca L Peters, Christina K Rapp, Ana M Rath, Shahmir A Rind, Avi Z Rosenberg, Michael M Segal, Markus G Seidel, Damian Smedley, Tomer Talmy, Yarlalu Thomas, Samuel A Wiafe, Julie Xian, Zafer Yuksel, Ingo Helbig, Christopher J Mungall, Melissa A Haendel, Peter N Robinson. "The Human Phenotype Ontology in 2021.", Nucleic Acids Research, 49 - (D1) - D1207-17, [10.1093/nar/gkaa1043](https://doi.org/10.1093/nar/gkaa1043)
- Isabel Fernandes Arroiteia, **Andreas Husch, Mehri Baniasadi, Frank Hertel**. "Impressive weight gain after deep brain stimulation of nucleus accumbens in treatment-resistant bulimic anorexia nervosa.", Bmj Case Reports, 13 - (11) - [10.1136/bcr-2020-239316](https://doi.org/10.1136/bcr-2020-239316)
- Ye Yuan, Chuan Sun, Xiuchuan Tang, Cheng Cheng, **Laurent Mombaerts**, Maolin Wang, Tao Hu, Chenyu Sun, Yuqi Guo, Xiuting Li, Hui Xu, Tongxin Ren, Yang Xiao, Yaru Xiao, Hongling Zhu, Honghan Wu, Kezhi Li, Chuming Chen, Yingxia Liu, Zhichao Liang, Zhiguo Cao, Hai-Tao Zhang, Ioannis Ch Paschalis, Quanying Liu, **Jorge Goncalves**, Qiang Zhong, Li Yan. "Development and Validation of a Prognostic Risk Score System for COVID-19 Inpatients: A Multi-Center Retrospective Study in China.", Engineering, 8 - 116-121, [10.1016/j.eng.2020.10.013](https://doi.org/10.1016/j.eng.2020.10.013)
- Mei-Hwa Lee, James L Thomas, Zi-Lin Su, Wen-Kuan Yeh, **Anna S Monzel, Silvia Bolognin, Jens C Schwamborn**, Chien-Hsin Yang, Hung-Yin Lin. "Epitope imprinting of alpha-synuclein for sensing in Parkinson's brain organoid culture medium.", Biosensors & Bioelectronics, 175 - 112852, [10.1016/j.bios.2020.112852](https://doi.org/10.1016/j.bios.2020.112852)
- Karim Hayoun, Emilie Geersens, **Cedric C Laczny, Rashi Halder**, Carmen Lazaro Sanchez, Abhijit Manna, Francoise Bringel, Michael Ryckelynck, **Paul Wilmes**, Emilie E L Muller, Beatrice Alpha-Bazin, Jean Armengaud, Stephane Vuilleumier. "Dichloromethane Degradation Pathway from Unsequenced Hyphomicrobium sp. MC8b Rapidly Explored by Pan-Proteomics.", Microorganisms, 8 - (12) - 1-16, [10.3390/microorganisms8121876](https://doi.org/10.3390/microorganisms8121876)
- Varun Paul, Yogaraj Banerjee, Prosenjit Ghosh, **Susheel Bhanu Busi**. "Depthwise microbiome and isotopic profiling of a moderately saline microbial mat in a solar saltern.", Scientific Reports, 10 - (1) - 20686, [10.1038/s41598-020-77622-w](https://doi.org/10.1038/s41598-020-77622-w)
- **Rene Peter Bremm**, Klaus Peter Koch, **Rejko Krüger, Frank Hertel, Jorge Goncalves**. "A rule-based expert system for real-time feedback-control in deep brain stimulation", Current Directions In Biomedical Engineering, 6 - (3) - [10.1515/cdbme-2020-3027](https://doi.org/10.1515/cdbme-2020-3027)
- Ramita Dewan, Ruth Chia, Jinhui Ding, Richard A Hickman, Thor D Stein, Yevgeniya Abramzon, Sarah Ahmed, Marya S Sabir, Makayla K Portley, Arianna Tucci, Kristina Ibanez, F N U Shankaracharya, Pamela Keagle, Giacomina Rossi, Paola Caroppo, Fabrizio Tagliavini, Maria L Waldo, Per M Johansson, Christer F Nilsson, James B Rowe, Luisa Benussi, Giuliano Binetti, Roberta Ghidoni, Edwin Jabbari, Coralie Viollet, Jonathan D Glass, Andrew B Singleton, Vincenzo Silani, Owen A Ross, Mina Ryten, Ali Torkamani, Toshiko Tanaka, Luigi Ferrucci, Susan M Resnick, Stuart Pickering-Brown, Christopher B Brady, Neil Kowal, John A Hardy, Vivianna Van Deerlin, Jean Paul Vonsattel, Matthew B Harms, Huw R Morris, Raffaele Ferrari, John E Landers, Adriano Chio, J Raphael Gibbs, Clifton L Dalgard, Sonja W Scholz, Bryan J Traynor, American Genome Center (TAGC), FALS Sequencing Consortium, Genomics England Research Consortium, International ALS/FTD Genomics Consortium (iaFGC), International FTD Genetics Consortium (IFGC), **International LBD Genomics Consortium (iLBDGC)**, NYGC ALS Consortium, PROSPECT Consortium. "Pathogenic Huntingtin Repeat Expansions in Patients with Frontotemporal Dementia and Amyotrophic Lateral Sclerosis.", Neuron, [10.1016/j.neuron.2020.11.005](https://doi.org/10.1016/j.neuron.2020.11.005)

- Tobias Fehlmann, Benoit Lehallier, Nicholas Schaum, Oliver Hahn, Mustafa Kahraman, Yongping Li, Nadja Grammes, **Lars Geffers**, Christina Backes, **Rudi Balling**, Fabian Kern, **Rejko Kruger**, Frank Lammert, Nicole Ludwig, Benjamin Meder, Bastian Fromm, Walter Maetzler, Daniela Berg, Kathrin Brockmann, Christian Deuschle, Anna-Katharina von Thaler, Gerhard W Eschweiler, Sofiya Milman, Nir Barzilai, Matthias Reichert, Tony Wyss-Coray, Eckart Meese, Andreas Keller. "Common diseases alter the physiological age-related blood microRNA profile.", *Nature Communications*, 11 - (1) - 5958, [10.1038/s41467-020-19665-1](https://doi.org/10.1038/s41467-020-19665-1)
- **Zuogong Yue, Johan Thunberg**, Wei Pan, Lennart Ljung, **Jorge Gonçaves**. "Dynamic network reconstruction from heterogeneous datasets", *Automatica*, 123 - [10.1016/j.automatica.2020.109339](https://doi.org/10.1016/j.automatica.2020.109339)
- Jens Schittenhelm, Lukas Ziegler, Jan Sperveslage, **Michel Mittelbronn**, David Capper, Isabel Burghardt, Antti Poso, Saskia Biskup, Marco Skardelly, Ghazaleh Tabatabai. "FGFR3 overexpression is a useful detection tool for FGFR3 fusions and sequence variations in glioma.", *Neuro-Oncology Practice*, 8 - (2) - 209-21, [10.1093/nop/npaa075](https://doi.org/10.1093/nop/npaa075)
- Tyler J. Kohler, Hannes Peter, Stilianos Fodelianakis, Paraskevi Pramateftaki, Michail Styllas, Matteo Tolosano, Vincent de Staercke, Martina Schön, **Susheel Bhanu Busi, Paul Wilmes**, Alex Washburne, Tom J. Battin. "Patterns and Drivers of Extracellular Enzyme Activity in New Zealand Glacier-Fed Streams.", *Frontiers In Microbiology*, 11 - 591465, [10.3389/fmicb.2020.591465](https://doi.org/10.3389/fmicb.2020.591465)
- Alberto Celma, Juan V Sancho, **Emma L Schymanski**, David Fabregat-Safont, Maria Ibanez, Jeff Goshawk, Gitte Barkowitz, Felix Hernandez, Lubertus Bijlsma. "Improving Target and Suspect Screening High-Resolution Mass Spectrometry Workflows in Environmental Analysis by Ion Mobility Separation.", *Environmental Science & Technology*, 54 - (23) - 15120-15131, [10.1021/acs.est.0c05713](https://doi.org/10.1021/acs.est.0c05713)
- Miroslav Kratochvil, Oliver Hunewald, **Laurent Heirendt, Vasco Verissimo**, Jiri Vondrasek, **Venkata P Satagopam, Reinhard Schneider, Christophe Trefois**, Markus Ollert. "GigaSOM.jl: High-performance clustering and visualization of huge cytometry datasets.", *Gigascience*, 9 - (11) - 1-8, [10.1093/gigascience/giaa127](https://doi.org/10.1093/gigascience/giaa127)
- Christine Bus, Laimdota Zizmare, Marita Feldkaemper, Sven Geisler, Maria Zarani, Anna Schaedler, Franziska Klose, Jakob Admard, Craig J. Mageean, **Giuseppe Arena**, Petra Fallier-Becker, Aslihan Ugun-Klusek, Klaudia K. Maruszczak, Konstantina Kapolou, Benjamin Schmid, Doron Rapaport, Marius Ueffing, Nicolas Casadei, **Rejko Krüger**, Thomas Gasser, Daniela M. Vogt Weisenhorn, Philipp J. Kahle, Christoph Trautwein, Christian J. Gloeckner, Julia C. Fitzgerald. "Human Dopaminergic Neurons Lacking PINK1 Exhibit Disrupted Dopamine Metabolism Related to Vitamin B6 Co-Factors.", *Iscience*, 23 - (12) - 101797, [10.1016/j.isci.2020.101797](https://doi.org/10.1016/j.isci.2020.101797)
- Masayoshi Kano, Masashi Takahashi, Genko Oyama, Asako Yoritaka, Taku Hatano, Kahori Shiba-Fukushima, Makiko Nagai, Kazutoshi Nishiyama, Kazuko Hasegawa, Tsuyoshi Inoshita, Kei-ichi Ishikawa, Wado Akamatsu, Yuzuru Imai, **Silvia Bolognin, Jens Christian Schwamborn**, Nobutaka Hattori. "Reduced astrocytic reactivity in human brains and midbrain organoids with PRKN mutations.", *Npj Parkinsons Disease*, 6 - (1) - 33, [10.1038/s41531-020-00137-8](https://doi.org/10.1038/s41531-020-00137-8)
- Marcus Ludwig, Corey D Broeckling, Pieter C Dorrestein, Kai Duhrkop, **Emma L Schymanski**, Sebastian Bocker, Louis-Felix Nothias. "Studying Charge Migration Fragmentation of Sodiated Precursor Ions in Collision-Induced Dissociation at the Library Scale.", *Journal Of The American Society For Mass Spectrometry*, 32 - (1) - 180-186, [10.1021/jasms.0c00240](https://doi.org/10.1021/jasms.0c00240)
- Sascha Jung, **Kartikeya Singh, Antonio Del Sol**. "FunRes: resolving tissue-specific functional cell states based on a cell-cell communication network model.", *Briefings In Bioinformatics*, 22 - (4) - [10.1093/bib/bbaa283](https://doi.org/10.1093/bib/bbaa283)
- **Sylvia Binck, Claire Pauly**, Michel Vaillant, **Geraldine Hipp**, Manon Gantenbein, **Rejko Krueger**, Nico J Diederich. "Contributing Factors and Evolution of Impulse Control Disorder in the Luxembourg Parkinson Cohort.", *Frontiers In Neurology*, 11 - 578924, [10.3389/fneur.2020.578924](https://doi.org/10.3389/fneur.2020.578924)
- Massimiliano Zanin, **Bruno F R Santos, Paul M A Antony, Clara Berenguer-Escuder, Simone B Larsen, Zoe Hanss, Peter A Barbuti, Aidos S Baumuratov, Dajana Grossmann**, Christophe M Capelle, Joseph Weber, **Rudi Balling**, Markus Ollert, **Rejko Kruger**, Nico J Diederich, **Feng Q He**. "Mitochondria interaction networks show altered topological patterns in Parkinson's disease.", *Npj Systems Biology And Applications*, 6 - (1) - 38, [10.1038/s41540-020-00156-4](https://doi.org/10.1038/s41540-020-00156-4)
- **Zoe Hanss, Simone B Larsen, Paul Antony, Pauline Mencke, Francois Massart, Javier Jarazo, Jens C Schwamborn, Peter A Barbuti**, George D Mellick, **Rejko Kruger**. "Mitochondrial and Clearance Impairment in p.D620N VPS35 Patient-Derived Neurons.", *Movement Disorders*, 36 - (3) - 704-15, [10.1002/mds.28365](https://doi.org/10.1002/mds.28365)
- **Susana Martinez Arbas, Shaman Narayanasamy, Malte Herold, Laura A Lebrun**, Michael R Hoopmann, Sujun Li, Tony J Lam, **Benoit J Kunath**, Nathan D Hicks, Cindy M Liu, Lance B Price, **Cedric C Laczny**, John D Gillece, James M Schupp, Paul S Keim, Robert L Moritz, Karoline Faust, Haixu Tang, Yuzhen Ye, **Alexander Skupin, Patrick May, Emilie E L Muller, Paul Wilmes**. "Roles of bacteriophages, plasmids and CRISPR immunity in microbial community dynamics revealed using time-series integrated meta-omics.", *Nature Microbiology*, 6 - (1) - 123-135, [10.1038/s41564-020-00794-8](https://doi.org/10.1038/s41564-020-00794-8)
- **Susheel Bhanu Busi**, Paraskevi Pramateftaki, Jade Brandani, Stilianos Fodelianakis, Hannes Peter, **Rashi Halder, Paul Wilmes**, Tom J. Battin. "Optimised biomolecular extraction for metagenomic analysis of microbial biofilms from high-mountain streams", *Peerj*, 8 - e9973, [10.7717/peerj.9973](https://doi.org/10.7717/peerj.9973)
- Sumaiya Iqbal, Eduardo Perez-Palma, Jakob B Jespersen, **Patrick May, David Hoksza**, Henrike O Heyne, Shehab S Ahmed, Zaara T Rifat, M Sohail Rahman, Kasper Lage, Aarno Palotie, Jeffrey R Cottrell, Florence F Wagner, Mark J Daly, Arthur J Campbell, Dennis Lal. "Comprehensive characterization of amino acid positions in protein structures reveals molecular effect of missense variants.", *Proceedings Of The National Academy Of Sciences Of The United States Of America*, 117 - (45) - 28201-28211, [10.1073/pnas.2002660117](https://doi.org/10.1073/pnas.2002660117)
- **Alexey N Kolodkin**, Raju Prasad Sharma, Anna Maria Colangelo, Andrew Ignatenko, Francesca Martorana, Danyel Jennen, Jacco J Briede, Nathan Brady, Matteo Barberis, Thierry D G A Mondeel, Michele Papa, Vikas Kumar, Bernhard Peters, **Alexander Skupin**, Lilia Alberghina, **Rudi Balling**, Hans V Westerhoff. "ROS networks: designs, aging, Parkinson's disease and precision therapies.", *Npj Systems Biology And Applications*, 6 - (1) - 34, [10.1038/s41540-020-00150-w](https://doi.org/10.1038/s41540-020-00150-w)
- Laura Garcia-Prat, Eusebio Perdiguero, Sonia Alonso-Martin, Stefania Dell'Orso, **Srikanth Ravichandran**, Stephen R Brooks, Aster H Juan, Silvia Campanario, Kan Jiang, Xiaotong Hong, Laura Ortet, Vanessa Ruiz-Bonilla, Marta Flandez, Victoria Moiseeva, Elena Rebollo, Merce Jordi, Hong-Wei Sun, Antonio Musaro, Marco Sandri, **Antonio Del Sol**, Vittorio Sartorelli, Pura Munoz-Canoves. "FoxO maintains a genuine muscle stem-cell quiescent state until geriatric age.", *Nature Cell Biology*, 22 - (11) - 1307-1318, [10.1038/s41556-020-00593-7](https://doi.org/10.1038/s41556-020-00593-7)
- Marija Dulovic-Mahlow, Inke R Konig, Joanne Trinh, Sokhna Haissatou Diaw, Peter P Urban, Evelyn Knappe, Neele Kuhnke, Lena-Christin Ingwersen, Frauke Hinrichs, Joachim Weber, Patrycja Kupnicka, Alexander Balck, **Sylvie Delcambre**, Tillman Vollbrandt, **Anne Grunewald**, Christine Klein, Philip Seibler, Katja Lohmann. "Discordant monozygotik Parkinson disease twins: Role of mitochondrial integrity.", *Annals Of Neurology*, 89 - (1) - 158-164, [10.1002/ana.25942](https://doi.org/10.1002/ana.25942)
- Hans Urban, Gabriele D Maurer, Anna-Luisa Luger, Nadja I Lorenz, Benedikt Sauer, Christopher Stroh, Jorg Trojan, **Michel Mittelbronn**, Joachim P Steinbach, Patrick N Harter, Michael W Ronellenfitsch. "Cetuximab-Mediated Protection from Hypoxia- Induced Cell Death: Implications for Therapy Sequence in Colorectal Cancer.", *Cancers*, 12 - (10) - 1-15, [10.3390/cancers12103050](https://doi.org/10.3390/cancers12103050)

- Ronald Biemann, **Kirsten Roomp**, **Fozia Noor**, Shruthi Krishnan, Zhen Li, Khurram Shahzad, Katrin Borucki, Claus Luley, **Jochen G. Schneider**, Berend Isermann. "Gene expression profile of CD14+ blood monocytes following lifestyle-induced weight loss in individuals with metabolic syndrome.", *Scientific Reports*, 10 - (1) - 17855, [10.1038/s41598-020-74973-2](https://doi.org/10.1038/s41598-020-74973-2)
- Yannick Braun, Katharina Filipi, Simon Bernatz, Peter Baumgarten, Bastian Roller, Jenny Zinke, Pia S Zeiner, Elena Ilina, Christian Senft, Michael W Ronellenfisch, Karl H Plate, Oliver Bahr, Elke Hattingen, Joachim P Steinbach, **Michel Mittelbronn**, Patrick N Harter. "Linking epigenetic signature and metabolic phenotype in IDH mutant and IDH wildtype diffuse glioma.", *Neuropathology And Applied Neurobiology*, 47 - (3) - 379-393, [10.1111/nan.12669](https://doi.org/10.1111/nan.12669)
- **Malte Herold**, **Susana Martinez Arbas**, **Shaman Narayanasamy**, **Abdul R Sheik**, **Luise A K Kleine-Borgmann**, **Laura A Lebrun**, **Benoit J Kunath**, **Hugo Roume**, Irina Bessarab, Rohan B H Williams, John D Gillece, James M Schupp, Paul S Keim, **Christian Jager**, Michael R Hoopmann, Robert L Moritz, Yuzhen Ye, Sujun Li, Haixu Tang, **Anna Heintz-Buschart**, **Patrick May**, **Emilie E L Muller**, **Cedric C Laczny**, **Paul Wilmes**. "Integration of time-series meta-omics data reveals how microbial ecosystems respond to disturbance.", *Nature Communications*, 11 - (1) - 5281, [10.1038/s41467-020-19006-2](https://doi.org/10.1038/s41467-020-19006-2)
- **Henry Kurniawan**, **Leticia Soriano-Baguet**, **Dirk Brenner**. "Regulatory t cell metabolism at the intersection between autoimmune diseases and cancer.", *European Journal Of Immunology*, 50 - (11) - 1626-42, [10.1002/eji.201948470](https://doi.org/10.1002/eji.201948470)
- Kristian Unger, Daniel F Fleischmann, Viktoria Ruf, Jörg Felsberg, Daniel Piehlmaier, Daniel Samaga, Julia Hess, Marian Preetham Suresh, **Michel Mittelbronn**, Kirsten Lauber, Wilfried Budach, Michael Sabel, Claus Rödel, Guido Reifenberger, Jochen Herms, Jörg-Christian Tonn, Horst Zitzelsberger, Claus Belka, Maximilian Niyazi. "Improved risk stratification in younger IDH wild-type glioblastoma patients by combining a 4-miRNA signature with MGMT promoter methylation status", *Neuro-Oncology Advances*, 2 - (1) - vdaa137, [10.1093/oaajnl/vdaa137](https://doi.org/10.1093/oaajnl/vdaa137)
- David Salgado, Irina M Armean, Michael Baudis, Sergi Beltran, Salvador Capella-Gutierrez, Denise Carvalho-Silva, Victoria Dominguez Del Angel, Joaquin Dopazo, Laura I Furlong, Bo Gao, Leyla Garcia, **Dietlind Gerloff**, Ivo Gut, Attila Gyenesei, Nina Habermann, John M Hancock, Marc Hanauer, Eivind Hovig, Lennart F Johansson, Thomas Keane, Jan Korbel, Katharina B Lauer, Steve Laurie, Brane Leskosek, David Lloyd, Tomas Marques-Bonet, Hailiang Mei, Katalin Monostory, Janet Pinero, Krzysztof Poterłowicz, Ana Rath, Pubudu Samarakoon, Ferran Sanz, Gary Saunders, Daoud Sie, Morris A Swertz, Kirill Tsukanov, Alfonso Valencia, Marko Vidak, Cristina Yenyxe Gonzalez, Bauke Ylstra, Christophe Beroud. "The ELIXIR Human Copy Number Variations Community: building bioinformatics infrastructure for research.", *F1000Research*, 9 - [10.12688/f1000research.24887.1](https://doi.org/10.12688/f1000research.24887.1)
- Max Borsche, **Sandro L Pereira**, Christine Klein, **Anne Grunewald**. "Mitochondria and Parkinson's Disease: Clinical, Molecular, and Translational Aspects.", *Journal Of Parkinsons Disease*, 11 - (1) - 45-60, [10.3233/JPD-201981](https://doi.org/10.3233/JPD-201981)
- **Mariana Messias Ribeiro**, **Satoshi Okawa**, **Antonio del Sol**. "TransSynW: A single-cell RNA-sequencing based web application to guide cell conversion experiments", *Stem Cells Translational Medicine*, 10 - (2) - 230-8, [10.1002/sctm.20-0227](https://doi.org/10.1002/sctm.20-0227)
- Max Borsche, Inke R König, **Sylvie Delcambre**, Simona Petrucci, Alexander Balck, Norbert Bruggemann, Alexander Zimprich, **Kobi Wasner**, **Sandro L Pereira**, Micol Avenali, Christian Deuschle, **Katja Badanjak**, **Jenny Ghelfi**, Thomas Gasser, Meike Kasten, Philip Rosenstiel, Katja Lohmann, Kathrin Brockmann, Enza Maria Valente, Richard J Youle, **Anne Grunewald**, Christine Klein. "Mitochondrial damage-associated inflammation highlights biomarkers in PRKN/PINK1 parkinsonism.", *Brain*, 143 - (10) - 3041-3051, [10.1093/brain/awaa246](https://doi.org/10.1093/brain/awaa246)
- **Marie Anne-Catherine Neumann**, **Dajana Grossmann**, Simone Schimpf-Linzenbold, Dana Dayan, Katarina Stingl, Reut Ben-Menachem, Ophry Pines, **François Massart**, **Sylvie Delcambre**, **Jenny Ghelfi**, **Jill Bohler**, Tim Strom, Amit Kessel, Abdussalam Azem, Ludger Schöls, **Anne Grunewald**, Bernd Wissinger, **Rejko Krüger**. "Haploinsufficiency due to a novel ACO2 deletion causes mitochondrial dysfunction in fibroblasts from a patient with dominant optic nerve atrophy.", *Scientific Reports*, 10 - (1) - 16736, [10.1038/s41598-020-73557-4](https://doi.org/10.1038/s41598-020-73557-4)
- Anna Golebiewska, Ann-Christin Hau, Anais Oudin, Daniel Stieber, Yahaya A Yabo, Virginie Baus, Vanessa Barthelemy, Eliane Klein, Sebastien Bougnaud, Olivier Keunen, May Wantz, **Alessandro Michelucci**, Virginie Neirinckx, Arnaud Muller, Tony Kaoma, Petr V Nazarov, Francisco Azuaje, Alfonso De Falco, Ben Flies, Lorraine Richart, **Suresh Poovathingal**, **Thais Arns**, **Kamil Grzyb**, Andreas Mock, Christel Herold-Mende, Anne Steino, Dennis Brown, **Patrick May**, Hrvoje Miletic, Tathiane M Malta, Houtan Noushmehr, Yong-Jun Kwon, Winnie Jahn, Barbara Klink, Georgette Tanner, Lucy F Stead, **Michel Mittelbronn**, **Alexander Skupin**, **Frank Hertel**, Rolf Bjerkvig, Simone P Niclou. "Patient-derived organoids and orthotopic xenografts of primary and recurrent gliomas represent relevant patient avatars for precision oncology.", *Acta Neuropathologica*, 140 - (6) - 919-949, [10.1007/s00401-020-02226-7](https://doi.org/10.1007/s00401-020-02226-7)
- Hasan Balci, Metin Can Siper, Nasim Saleh, Ilkin Safarli, Ludovic Roy, Merve Kilicarslan, Rumeysa Ozaydin, **Alexander Mazein**, Charles Auffray, Ozgun Babur, Emek Demir, Ugur Dogrusoz. "Newt: a comprehensive web-based tool for viewing, constructing, and analyzing biological maps.", *Bioinformatics*, 37 - (10) - 1475-1477, [10.1093/bioinformatics/btaa850](https://doi.org/10.1093/bioinformatics/btaa850)
- **Diana M Hendrickx**, **Pierre Garcia**, **Amer Ashrafi**, **Alessia Sciortino**, **Kristopher J Schmit**, Heike Kollmus, Nathalie Nicot, Tony Kaoma, Laurent Vallar, **Manuel Buttini**, **Enrico Glaab**. "A New Synuclein-Transgenic Mouse Model for Early Parkinson's Reveals Molecular Features of Preclinical Disease.", *Molecular Neurobiology*, 58 - (2) - 576-602, [10.1007/s12035-020-02085-z](https://doi.org/10.1007/s12035-020-02085-z)
- Ferdinand O. Bohmann, Alexander Seiler, Sarah Gelhard, Leonie Stolz, Boris Brill, Robert Brunkhorst, Helmuth Steinmetz, Patrick N. Harter, **Michel Mittelbronn**, Christian Foerch. "Blood pressure lowering decreases intracerebral hemorrhage volume and improves behavioral outcomes in experimental animals", *Journal Of Stroke*, 22 - (3) - 416-8, [10.5853/jos.2020.02390](https://doi.org/10.5853/jos.2020.02390)
- Jovan Tanevski, Thin Nguyen, Buu Truong, Nikos Karaiskos, Mehmet Eren Ahsen, Xinyu Zhang, Chang Shu, Ke Xu, Xiaoyu Liang, Ying Hu, Hoang Vv Pham, Li Xiaomei, Thuc D Le, Adi L Tarca, Gaurav Bhatti, Roberto Romero, Nestoras Karathanasis, Phillippe Loher, Yang Chen, Zhengqing Ouyang, Disheng Mao, Yiping Zhang, Maryam Zand, Jianhua Ruan, Christoph Hafemeister, Peng Qiu, Duc Tran, Tin Nguyen, Attila Gabor, Thomas Yu, Justin Guinney, **Enrico Glaab**, **Roland Krause**, **Peter Banda**, Gustavo Stolovitzky, Nikolaus Rajewsky, Julio Saez-Rodriguez, Pablo Meyer, DREAM SCTC Consortium. "Gene selection for optimal prediction of cell position in tissues from single-cell transcriptomics data.", *Life Science Alliance*, 3 - (11) - [10.26508/lsa.20200867](https://doi.org/10.26508/lsa.20200867)
- Patrick J Stover, **Rudi Balling**. "Nutrition and the 2020 Pandemic.", *Annual Review Of Nutrition*, Annual Review Of Nutrition, 40 - v-vi, [10.1146/annurev-nu-40-082120-100001](https://doi.org/10.1146/annurev-nu-40-082120-100001)
- Yujuan Gui, **Mélanie H. Thomas**, **Pierre Garcia**, **Mona Karout**, **Rashi Halder**, **Alessandro Michelucci**, Heike Kollmus, Cuiqi Zhou, Shlomo Melmed, Klaus Schughart, **Rudi Balling**, **Michel Mittelbronn**, Joseph H. Nadeau, Robert W. Williams, Thomas Sauter, **Manuel Buttini**, Lasse Sinkkonen. "Pituitary Tumor Transforming Gene 1 Orchestrates Gene Regulatory Variation in Mouse Ventral Midbrain During Aging", *Frontiers In Genetics*, 11 - 566734, [10.3389/fgene.2020.566734](https://doi.org/10.3389/fgene.2020.566734)
- Emma Louise Robinson, **Maral Azodi**, Stephane Heymans, Ward Heggermont. "Anthracycline-Related Heart Failure: Certain Knowledge and Open Questions : Where Do we Stand with Chemotherapy-induced Cardiotoxicity?", *Current Heart Failure Reports*, 17 - (6) - 357-364, [10.1007/s11897-020-00489-5](https://doi.org/10.1007/s11897-020-00489-5)
- **Sarah Louise Nickels**, **Jens Christian Schwamborn**. "Is serine racemase (SRR) a second hit target for LRRK2-G2019S induced Parkinson's disease?", *Neural Regeneration Research*, 16 - (3) - 498-9, [10.4103/1673-5374.293140](https://doi.org/10.4103/1673-5374.293140)
- F Delogu, **B J Kunath**, P N Evans, M O Arntzen, T R Hvidsten, P B Pope. "Integration of absolute multi-omics reveals dynamic protein-to-RNA ratios and metabolic interplay within mixed-domain microbiomes.", *Nature Communications*, 11 - (1) - 4708, [10.1038/s41467-020-18543-0](https://doi.org/10.1038/s41467-020-18543-0)

- **Kobi Wasner, Anne Grunewal**, Christine Klein. "Parkin-linked Parkinson's disease: From clinical insights to pathogenic mechanisms and novel therapeutic approaches.", *Neuroscience Research*, 159 - 34-39, [10.1016/j.neures.2020.09.001](https://doi.org/10.1016/j.neures.2020.09.001)
- **Dajana Grossmann, Clara Berenguer-Escuder, Axel Chemla, Giuseppe Arena, Rejko Krüger**. "The Emerging Role of RHOT1/Miro1 in the Pathogenesis of Parkinson's Disease", *Frontiers In Neurology*, 11 - 587, [10.3389/fneur.2020.00587](https://doi.org/10.3389/fneur.2020.00587)
- **Peter Barbuti, Paul Antony, Bruno Santos, Francois Massart, Gerald Cruciani, Claire Dording, Jonathan Arias, Jens Schwamborn, Rejko Krüger**. "Using High-Content Screening to Generate Single-Cell Gene-Corrected Patient-Derived iPSC Clones Reveals Excess Alpha-Synuclein with Familial Parkinson's Disease Point Mutation A30P.", *Cells*, 9 - (9) - 2065, [10.3390/cells9092065](https://doi.org/10.3390/cells9092065)
- Nico J Diederich, Nicolas Sauvageot, Vannina Pieri, **Geraldine Hipp**, Michel Vaillant. "The Clinical Non-Motor Connectome in Early Parkinson's Disease.", *Journal Of Parkinsons Disease*, 10 - (4) - 1797-1806, [10.3233/JPD-202102](https://doi.org/10.3233/JPD-202102)
- **Ibrahim Boussaad, Carolin D Obermaier, Zoe Hanss, Dheeraj R Bobbili, Silvia Bolognin, Enrico Glaab**, Katarzyna Wolynska, Nicole Weisschuh, Laura De Conti, Caroline May, Florian Giesert, **Dajana Grossmann, Annika Lambert, Susanne Kirchen, Maria Biryukov**, Lena F Burbulla, **Francois Massart, Jill Bohler, Gerald Cruciani**, Benjamin Schmid, Annerose Kurz-Drexler, **Patrick May**, Stefano Duga, Christine Klein, **Jens C Schwamborn**, Katrin Marcus, Dirk Voitalla, Daniela M Vogt Weisenhorn, Wolfgang Wurst, Marco Baralle, Dimitri Krainc, Thomas Gasser, Bernd Wissinger, **Rejko Krüger**. "A patient-based model of RNA mis-splicing uncovers treatment targets in Parkinson's disease.", *Science Translational Medicine*, 12 - (560) - [10.1126/scitranslmed.aau3960](https://doi.org/10.1126/scitranslmed.aau3960)
- Shubhra Acharya, Antonio Salgado-Somoza, Francesca Maria Stefanizzi, Andrew I Lumley, Lu Zhang, **Enrico Glaab, Patrick May**, Yvan Devaux. "Non-Coding RNAs in the Brain-Heart Axis: The Case of Parkinson's Disease.", *International Journal Of Molecular Sciences*, 21 - (18) - 1-27, [10.3390/ijms21186513](https://doi.org/10.3390/ijms21186513)
- **Mehri Baniyasi, Daniele Proverbio, Jorge Goncalves, Frank Hertel, Andreas Husch**. "FastField: An open-source toolbox for efficient approximation of deep brain stimulation electric fields.", *Neuroimage*, 223 - 117330, [10.1016/j.neuroimage.2020.117330](https://doi.org/10.1016/j.neuroimage.2020.117330)
- Theresa Luth, Inke R Konig, **Anne Grunewald**, Meike Kasten, Christine Klein, Faycel Hentati, Matthew Farrer, Joanne Trinh. "Age at Onset of LRRK2 p.Gly2019Ser Is Related to Environmental and Lifestyle Factors.", *Movement Disorders*, 35 - (10) - 1854-1858, [10.1002/mds.28238](https://doi.org/10.1002/mds.28238)
- Rene Peter Bremm, Klaus Peter Koch, **Rejko Krüger, Jorge Gonçalves, Frank Hertel**. "Analysis and visualisation of tremor dynamics in deep brain stimulation patients", *Current Directions In Biomedical Engineering*, 6 - (3) - [10.1515/cdbme-2020-3030](https://doi.org/10.1515/cdbme-2020-3030)
- Nuria Oliver, Xavier Barber, **Kirsten Roomp**, Kristof Roomp. "The COVID19Impact Survey: Assessing the Pulse of the COVID-19 Pandemic in Spain via 24 Questions.", *Journal Of Medical Internet Research*, 22 - (9) - e21319, [10.2196/21319](https://doi.org/10.2196/21319)
- Kayla C. Banks, Elizabeth A. Giuliano, **Susheel B. Busi**, Carol R. Reiner, Aaron C. Ericsson. "Evaluation of Healthy Canine Conjunctival, Periocular Haired Skin, and Nasal Microbiota Compared to Conjunctival Culture", *Frontiers In Veterinary Science*, 7 - 558, [10.3389/fvets.2020.00558](https://doi.org/10.3389/fvets.2020.00558)
- **Regina Becker**, Adrian Thorogood, Johan Ordish, Michael J S Beauvais. "COVID-19 Research: Navigating the European General Data Protection Regulation.", *Journal Of Medical Internet Research*, 22 - (8) - e19799, [10.2196/19799](https://doi.org/10.2196/19799)
- Andrea Greuel, **Jean-Pierre Trezzi, Enrico Glaab**, Marina C Ruppert, Franziska Maier, **Christian Jager, Zdenka Hodak**, Katja Lohmann, Yilong Ma, David Eidelberg, Lars Timmermann, Karsten Hiller, Marc Tittgemeyer, Alexander Drzezga, Nico Diederich, Carsten Eggers. "GBA Variants in Parkinson's Disease: Clinical, Metabolomic, and Multimodal Neuroimaging Phenotypes.", *Movement Disorders*, 35 - (12) - 2201-2210, [10.1002/mds.28225](https://doi.org/10.1002/mds.28225)
- Peter D Galer, Shiva Ganesan, David Lewis-Smith, Sarah E McKeown, Manuela Pendziwiat, Katherine L Helbig, Colin A Ellis, Annika Rademacher, Lacey Smith, Annapurna Poduri, Simone Seiffert, Sarah von Spiczak, Hiltrud Muhle, Andreas van Baalen, Rhys H Thomas, **Roland Krause**, Yvonne Weber, Ingo Helbig, NCEE Study Group, EPGP Investigators, **EuroEPINOMICS-RES Consortium**, Genomics Research and Innovation Network. "Semantic Similarity Analysis Reveals Robust Gene-Disease Relationships in Developmental and Epileptic Encephalopathies.", *American Journal Of Human Genetics*, 107 - (4) - 683-697, [10.1016/j.ajhg.2020.08.003](https://doi.org/10.1016/j.ajhg.2020.08.003)
- **Sylvie Delcambre, Jenny Ghelfi, Nassima Ouzren, Lea Grandmougin, Catherine Delbrouck**, Philip Seibler, **Kobi Wasner**, Jan O Aasly, Christine Klein, Joanne Trinh, **Sandro L Pereira, Anne Grunewald**. "Mitochondrial Mechanisms of LRRK2 G2019S Penetrance.", *Frontiers In Neurology*, 11 - 881, [10.3389/fneur.2020.00881](https://doi.org/10.3389/fneur.2020.00881)
- Bruna Piareck, Marx Oliveira-Lima, Ana Maria Benko-Iseppon, **Sarah Diehl, Reinhard Schneider**, Ana Christina Brasileiro-Vidal, **Adriano Barbosa-Silva**. "LAITOR4HPC: A text mining pipeline based on HPC for building interaction networks.", *Bmc Bioinformatics*, 21 - (1) - 365, [10.1186/s12859-020-03620-4](https://doi.org/10.1186/s12859-020-03620-4)
- Anne K. Braczynski, Stefan Gfroerer, Rudi Beschorner, Patrick N. Harter, Peter Baumgarten, Udo Rolle, **Michel Mittelbronn**. "Cholinergic innervation and ganglion cell distribution in Hirschsprung's disease.", *Bmc Pediatrics*, 20 - (1) - 399, [10.1186/s12887-020-02299-z](https://doi.org/10.1186/s12887-020-02299-z)
- Sascha Jung, **Antonio Del Sol**. "Multiomics data integration unveils core transcriptional regulatory networks governing cell-type identity.", *Npj Systems Biology And Applications*, 6 - (1) - 26, [10.1038/s41540-020-00148-4](https://doi.org/10.1038/s41540-020-00148-4)
- **Pauline Mencke, Zoé Hanss, Ibrahim Boussaad**, Pierre Emmanuel Sugier, Alexis Elbaz, **Rejko Krüger**. "Bidirectional Relation Between Parkinson's Disease and Glioblastoma Multiforme", *Frontiers In Neurology*, 11 - 898, [10.3389/fneur.2020.00898](https://doi.org/10.3389/fneur.2020.00898)
- **Diana M. Hendrickx, Enrico Glaab**. "Comparative transcriptome analysis of Parkinson's disease and Hutchinson-Gilford progeria syndrome reveals shared susceptible cellular network processes.", *Bmc Medical Genomics*, 13 - (1) - 114, [10.1186/s12920-020-00761-6](https://doi.org/10.1186/s12920-020-00761-6)
- **Antonio Del Sol**, Sascha Jung. "The Importance of Computational Modeling in Stem Cell Research.", *Trends In Biotechnology*, 39 - (2) - 126-136, [10.1016/j.tibtech.2020.07.006](https://doi.org/10.1016/j.tibtech.2020.07.006)
- Henrike O Heyne, David Baez-Nieto, Sumaiya Iqbal, Duncan S Palmer, Andreas Brunklaus, **Patrick May**, Katrine M Johannesen, Stephan Lauxmann, Johannes R Lemke, Rikke S Moller, Eduardo Perez-Palma, Ute I Scholl, Steffen Syrbe, Holger Lerche, Dennis Lal, Arthur J Campbell, Hao-Ran Wang, Jen Pan, Mark J Daly, **Epi25 Collaborative**. "Predicting functional effects of missense variants in voltage-gated sodium and calcium channels.", *Science Translational Medicine*, 12 - (556) - [10.1126/scitranslmed.aay6848](https://doi.org/10.1126/scitranslmed.aay6848)
- Javier Zorrilla de San Martin, **Cristina Donato**, Jeremy Peixoto, Andrea Aguirre, Vikash Choudhary, Angela Michela De Stasi, Joana Lourenco, Marie-Claude Potier, Alberto Bacci. "Alterations of specific cortical GABAergic circuits underlie abnormal network activity in a mouse model of Down syndrome.", *Elife*, 9 - 1-54, [10.7554/eLife.58731](https://doi.org/10.7554/eLife.58731)
- Jose Vladimir Sandoval-Sierra, Alexandra H B Helbing, **Evan G Williams**, David G Ashbrook, Suheeta Roy, Robert W Williams, Khyobeni Mozhui. "Body weight and high-fat diet are associated with epigenetic aging in female members of the BXD murine family.", *Aging Cell*, 19 - (9) - e13207, [10.1111/accel.13207](https://doi.org/10.1111/accel.13207)
- **Khalid I. W. Kane, Javier Jarazo**, Edinson Lucumi Moreno, **Ronan M. T. Fleming, Jens C. Schwamborn**. "Passive controlled flow for Parkinson's disease neuronal cell culture in 3D microfluidic devices", *Organs-On-A-Chip*, 2 - 100005, [10.1016/j.occ.2020.100005](https://doi.org/10.1016/j.occ.2020.100005)
- **Peter A. Barbuti, Bruno F.R. Santos, Claire M. Dording, Gérald Cruciani, François Massart**, Andreas Hummel, **Rejko Krüger**. "Generation of two iPSC cell lines (HIHDNDi001-A and HIHDNDi001-B) from a Parkinson's disease patient carrying the heterozygous p.A30P mutation in SNCA", *Stem Cell Research*, 48

- 101951, [10.1016/j.scr.2020.101951](https://doi.org/10.1016/j.scr.2020.101951)
- Thea Os Andersen, **Benoit J Kunath**, Live H Hagen, Magnus O Arntzen, Phillip B Pope. "Rumen metaproteomics: closer to linking rumen microbial function to animal productivity traits.", *Methods*, 186 - 42-51, [10.1016/j.ymeth.2020.07.011](https://doi.org/10.1016/j.ymeth.2020.07.011)
  - **Lisa M Smits, Stefano Magni**, Kaoru Kinugawa, **Kamil Grzyb**, Joachim Luginbuhl, **Sonia Sabate-Soler, Silvia Bolognin**, Jay W Shin, Eiichiro Mori, **Alexander Skupin, Jens C Schwamborn**. "Single-cell transcriptomics reveals multiple neuronal cell types in human midbrain-specific organoids.", *Cell And Tissue Research*, 382 - (3) - 463-76, [10.1007/s00441-020-03249-y](https://doi.org/10.1007/s00441-020-03249-y)
  - Mei-Hwa Lee, Kuan-Ting Liu, James L. Thomas, Zi-Lin Su, Danny O'Hare, **Thea van Wuellen, Jennifer Modamio Chamarro, Silvia Bolognin**, Shyh-Chyang Luo, **Jens C. Schwamborn**, Hung-Yin Lin. "Peptide-Imprinted Poly(hydroxymethyl 3,4-ethylenedioxythiophene) Nanotubes for Detection of  $\alpha$  Synuclein in Human Brain Organoids", *Acs Nano*, 3 - (8) - 8027-8036, [10.1021/acsnano.0c01476](https://doi.org/10.1021/acsnano.0c01476)
  - Maria-Patapia Zafeiriou, Guobin Bao, James Hudson, **Rashi Halder**, Alica Blenkle, Marie-Kristin Schreiber, Andre Fischer, Detlev Schild, Wolfram-Hubertus Zimmermann. "Developmental GABA polarity switch and neuronal plasticity in Bioengineered Neuronal Organoids.", *Nature Communications*, 11 - (1) - 3791, [10.1038/s41467-020-17521-w](https://doi.org/10.1038/s41467-020-17521-w)
  - Meghan J DeBenedictis, Yosef Gindzin, **Enrico Glaab**, Bela Anand-Apte. "A novel TIMP3 mutation associated with a retinitis pigmentosa-like phenotype.", *Ophthalmic Genetics*, 41 - (5) - 480-484, [10.1080/13816810.2020.1795889](https://doi.org/10.1080/13816810.2020.1795889)
  - Kim T Gurwitz, Prakash Singh Gaur, Louisa J Bellis, Lee Larcombe, Eva Alloza, Balint Laszlo Balint, Alexander Botzki, Jure Dimec, Victoria Dominguez Del Angel, Pedro L Fernandes, Eija Korpelainen, **Roland Krause**, Mateusz Kuzak, Loredana Le Pera, Brane Leskosek, Jessica M Lindvall, Diana Marek, Paula A Martinez, Tuur Muyldermans, Stale Nygard, Patricia M Palagi, Hedi Peterson, Fotis Psomopoulos, Vojtech Spiwok, Celia W G van Gelder, Allegra Via, Marko Vidak, Daniel Wibberg, Sarah L Morgan, Gabriella Rustici. "A framework to assess the quality and impact of bioinformatics training across ELIXIR.", *Plos Computational Biology*, 16 - (7) - e1007976, [10.1371/journal.pcbi.1007976](https://doi.org/10.1371/journal.pcbi.1007976)
  - Luiz Augusto Bovolenta, Danilo Pinhal, **Marcio Luis Acencio**, Arthur Casulli de Oliveira, Simon Moxon, Cesar Martins, Ney Lemke. "miRTil: An Extensive Repository for Nile Tilapia microRNA Next Generation Sequencing Data.", *Cells*, 9 - (8) - [10.3390/cells9081752](https://doi.org/10.3390/cells9081752)
  - Yixin Gao, Ting Wang, Xinghao Yu, **International FTD-Genomics Consortium (IFGC)**, Huashuo Zhao, Ping Zeng. "Mendelian randomization implies no direct causal association between leukocyte telomere length and amyotrophic lateral sclerosis", *Scientific Reports*, 10 - (1) - [10.1038/s41598-020-68848-9](https://doi.org/10.1038/s41598-020-68848-9)
  - Valeria Dulio, Jan Koschorreck, Bert van Bavel, Paul van den Brink, Juliane Hollender, John Munthe, Martin Schlabach, Reza Aalizadeh, Marlene Agerstrand, Lutz Ahrens, Ian Allan, Nikiforos Alygizakis, Damia' Barcelo', Pernilla Bohlin-Nizzetto, Susanne Boutroup, Werner Brack, Adèle Bressy, Jan H. Christensen, Lubos Cirka, Adrian Covaci, Anja Derksen, Geneviève Deviller, Milou M.L. Dingemans, Magnus Engwall, Despo Fatta-Kassinou, Pablo Gago-Ferrero, Félix Hernández, Dorte Herzke, Klára Hilscherová, Henner Hollert, Marion Junghans, Barbara Kasprzyk-Hordern, Steffen Keiter, Stefan A.E. Kools, Anneli Kruve, Dimitra Lambropoulou, Marja Lamoree, Pim Leonards, Benjamin Lopez, Miren López de Alda, Lian Lundy, Jarmila Makovinská, Ionan Marigómez, Jonathan W. Martin, Brendan McHugh, Cécile Miège, Simon O'Toole, Noora Perkola, Stefano Polesello, Leo Posthuma, Sara Rodriguez-Mozaz, Ivo Roessink, Pawel Rostkowski, Heinz Ruedel, Saer Samanipour, Tobias Schulze, **Emma L. Schymanski**, Manfred Sengl, Peter Tarábek, Dorien Ten Hulscher, Nikolaos Thomaidis, Anne Togola, Sara Valsecchi, Stefan van Leeuwen, Peter von der Ohe, Katrin Vorkamp, Branislav Vrana, Jaroslav Slobodnik. "The NORMAN Association and the European Partnership for Chemicals Risk Assessment (PARC): let's cooperate!", *Environmental Sciences Europe*, 32 - (1) - [10.1186/s12302-020-00375-w](https://doi.org/10.1186/s12302-020-00375-w)
  - Aleksandr Bobrovskikh, Ulyana Zubairova, **Alexey Kolodkin**, Alexey Doroshkov. "Subcellular compartmentalization of the plant antioxidant system: an integrated overview.", *Peerj*, 8 - e9451, [10.7717/peerj.9451](https://doi.org/10.7717/peerj.9451)
  - Aleksandr Bobrovskikh, Ulyana Zubairova, **Alexey Kolodkin**, Alexey Doroshkov. "Subcellular compartmentalization of the plant antioxidant system: An integrated overview", *Peerj*, 8 - [10.7717/PEERJ.9451](https://doi.org/10.7717/PEERJ.9451)
  - **Atte Aalto**, Lauri Viitasaari, Pauliina Ilmonen, **Laurent Mombaerts, Jorge Goncalves**. "Gene regulatory network inference from sparsely sampled noisy data.", *Nature Communications*, 11 - (1) - 3493, [10.1038/s41467-020-17217-1](https://doi.org/10.1038/s41467-020-17217-1)
  - **Luana Guerra, Lynn Bonetti, Dirk Brenner**. "Metabolic Modulation of Immunity: A New Concept in Cancer Immunotherapy.", *Cell Reports*, 32 - (1) - 107848, [10.1016/j.celrep.2020.107848](https://doi.org/10.1016/j.celrep.2020.107848)
  - Antoine Buetti-Dinh, **Malte Herold**, Stephan Christel, Mohamed El Hajjami, Soren Bellenberg, Olga Ilie, **Paul Wilmes**, Ansgar Poetsch, Wolfgang Sand, Mario Vera, Igor V Pivkin, Mark Dopson. "Systems biology of acidophile biofilms for efficient metal extraction", *Scientific Data*, 7 - (1) - 215, [10.1038/s41597-020-0519-2](https://doi.org/10.1038/s41597-020-0519-2)
  - Mohamed Abd Elaziz, Khalid M. Hosny, **Ahmed A. Hemedan**, Mohamed M. Darwish. "Improved recognition of bacterial species using novel fractional-order orthogonal descriptors", *Applied Soft Computing*, 95 - (October 2020) - [10.1016/j.asoc.2020.106504](https://doi.org/10.1016/j.asoc.2020.106504)
  - Dirk Voitalla, **Rejko Kruger**, Stefan Lorenzl, Thomas Muller, Guenther Oelwein, Alexander Storch, Martin Wolz, Ullrich Wullner. "[The role of inhibitors of COMT and MAO-B in the therapy of Parkinson's disease].", *Fortschritte Der Neurologie Psychiatrie*, 88 - (9) - 620-633, [10.1055/a-1149-9308](https://doi.org/10.1055/a-1149-9308)
  - Martyna Marynowska, Xavier Goux, David Sillam-Dusses, Corinne Rouland-Lefevre, **Rashi Halder, Paul Wilmes, Piotr Gawron**, Yves Roisin, **Philippe Delfosse**, Magdalena Calusinska. "Compositional and functional characterisation of biomass-degrading microbial communities in guts of plant fibre- and soil-feeding higher termites.", *Microbiome*, 8 - (1) - 96, [10.1186/s40168-020-00872-3](https://doi.org/10.1186/s40168-020-00872-3)
  - Lisa-Marie Niestroj, Eduardo Perez-Palma, Daniel P Howrigan, Yadi Zhou, Feixiong Cheng, Elmo Saarentaus, Peter Nurnberg, Remi Stevelink, Mark J Daly, Aarno Palotie, Dennis Lal, **Epi25 Collaborative**. "Epilepsy subtype-specific copy number burden observed in a genome-wide study of 17 458 subjects.", *Brain*, 143 - (7) - 2106-2118, [10.1093/brain/awaa171](https://doi.org/10.1093/brain/awaa171)
  - Frank T Bergmann, Tobias Czauderna, Ugur Dogrusoz, Adrien Rougny, Andreas Drager, Vasundra Toure, **Alexander Mazein**, Michael L Blinov, Augustin Luna. "Systems biology graphical notation markup language (SBGNML) version 0.3.", *Journal Of Integrative Bioinformatics*, 17 - (2-3) - [10.1515/jib-2020-0016](https://doi.org/10.1515/jib-2020-0016)
  - Max Meyrath, Martyna Szpakowska, Julian Zeiner, Laurent Massotte, Myriam P Merz, Tobias Benkel, Katharina Simon, **Jochen Ohnmacht**, Jonathan D Turner, **Rejko Kruger**, Vincent Seutin, Markus Ollert, Evi Kostenis, Andy Chevigne. "The atypical chemokine receptor ACKR3/CXCR7 is a broad-spectrum scavenger for opioid peptides.", *Nature Communications*, 11 - (1) - 3033, [10.1038/s41467-020-16664-0](https://doi.org/10.1038/s41467-020-16664-0)
  - Roopa Rajan, K P Divya, Rukmini Mridula Kandadai, Ravi Yadav, **Venkata P Satagopam**, U K Madhusoodanan, Pankaj Agarwal, Niraj Kumar, Teresa Ferreira, Hrishikesh Kumar, A V Sreeram Prasad, Kuldeep Shetty, Sahil Mehta, Soham Desai, Suresh Kumar, L K Prashanth, Mohit Bhatt, Pettarusp Wadia, Sudha Ramalingam, G M Wali, Sanjay Pandey, Felix Bartusch, Maximilian Hannussek, Jens Kruger, Ashwin Kumar-Sreelatha, Sandeep Grover, Peter Lichtner, Marc Sturm, Jochen Roeper, Volker Busskamp, Giriraj R Chandak, **Jens Schwamborn**, Pankaj Seth, Thomas Gasser, Olaf Riess, Vinay Goyal, Pramod Kumar Pal, Rupam Borgohain, **Rejko Kruger**, Asha Kishore, Manu Sharma, **Lux-GIANT Consortium**. "Genetic Architecture of Parkinson's Disease in the Indian Population: Harnessing Genetic Diversity to Address Critical Gaps in Parkinson's Disease Research.", *Frontiers In Neurology*, 11

- Katharina Morwald, Elmar Aigner, Peter Bergsten, Susanne M Brunner, Anders Forslund, Joel Kullberg, Hakan Ahlstrom, Hannes Manell, **Kirsten Roomp**, Sebastian Schutz, Fanni Zsoldos, Wilfried Renner, Dieter Furthner, Katharina Maruszczak, Stephan Zandanell, Daniel Weghuber, Harald Mangge. "Serum Ferritin Correlates With Liver Fat in Male Adolescents With Obesity.", *Frontiers In Endocrinology*, 11 - 340, [10.3389/fendo.2020.00340](https://doi.org/10.3389/fendo.2020.00340)
- Kinga Gawel, Melanie Langlois, **Teresa Martins**, Wietske van der Ent, Ettore Tiraboschi, **Maxime Jacmin**, **Alexander D Crawford**, Camila V Esquerre. "Seizing the moment: Zebrafish epilepsy models.", *Neuroscience And Biobehavioral Reviews*, 116 - 1-20, [10.1016/j.neubiorev.2020.06.010](https://doi.org/10.1016/j.neubiorev.2020.06.010)
- Gayatri Devraj, Sylvaine Guerit, Jana Seele, Daniel Spitzer, Jadranka Macas, Maryam I Khel, Roxana Heidemann, Anne K Braczynski, Wibke Ballhorn, Stefan Gunther, Omolara O Ogunshola, **Michel Mittelbronn**, Uwe Kodol, Camelia M Monoranu, Karl H Plate, Sven Hammerschmidt, Roland Nau, Kavi Devraj, Volkhard A J Kempf. "HIF-1alpha is involved in blood-brain barrier dysfunction and paracellular migration of bacteria in pneumococcal meningitis.", *Acta Neuropathologica*, 140 - (2) - 183-208, [10.1007/s00401-020-02174-2](https://doi.org/10.1007/s00401-020-02174-2)
- **Federico Baldini**, Johannes Hertel, Estelle Sandt, Cyrille C. Thinnès, Lorieza Neuberger-Castillo, **Lukas Pavelka**, Fay Betsou, **Rejko Krüger**, **Ines Thiele**, **on behalf of the NCER-PD Consortium**. "Parkinson's disease-associated alterations of the gut microbiome predict disease-relevant changes in metabolic functions.", *Bmc Biology*, 18 - (1) - 62, [10.1186/s12915-020-00775-7](https://doi.org/10.1186/s12915-020-00775-7)
- **Sarah Louise Nickels**, **Jennifer Modamio**, **Barbara Mendes-Pinheiro**, **Anna Sophia Monzel**, Fay Betsou, **Jens Christian Schwamborn**. "Reproducible generation of human midbrain organoids for in vitro modeling of Parkinson's disease.", *Stem Cell Research*, 46 - 101870, [10.1016/j.scr.2020.101870](https://doi.org/10.1016/j.scr.2020.101870)
- **Francesco Brunelli**, Enza Maria Valente, **Giuseppe Arena**. "Mechanisms of neurodegeneration in Parkinson's disease: keep neurons in the PINK1.", *Mechanisms Of Ageing And Development*, 189 - (July2020) - 111277, [10.1016/j.mad.2020.111277](https://doi.org/10.1016/j.mad.2020.111277)
- **Randolph R Singh**, Alex Chao, Katherine A Phillips, Xin Rui Xia, Damian Shea, Jon R Sobus, **Emma L Schymanski**, Elin M Ulrich. "Expanded coverage of non-targeted LC-HRMS using atmospheric pressure chemical ionization: a case study with ENTACT mixtures.", *Analytical And Bioanalytical Chemistry*, 412 - (20) - 4931-4939, [10.1007/s00216-020-02716-3](https://doi.org/10.1007/s00216-020-02716-3)
- Eran Segal, Feng Zhang, Xihong Lin, Gary King, Ophir Shalem, Smadar Shilo, William E Allen, Faisal Alquaddoomi, Han Altae-Tran, Simon Anders, Ran Balicer, Tal Bauman, Ximena Bonilla, Gisel Booman, Andrew T Chan, Ori Cohen, Silvano Coletti, Natalie Davidson, Yuval Dor, David A Drew, Olivier Elemento, Georgina Evans, Phil Ewels, Joshua Gale, Amir Gavrieli, Benjamin Geiger, Yonatan H Grad, Casey S Greene, Iman Hajirasouliha, Roman Jerala, Andre Kahles, Olli Kallioniemi, Ayya Keshet, Ljupco Kocarev, Gregory Landua, Tomer Meir, Aline Muller, Long H Nguyen, Matej Oresic, Svetlana Ovchinnikova, Hedi Peterson, Jana Prodanova, Jay Rajagopal, Gunnar Ratsch, Hagai Rossman, Johan Rung, Andrea Sboner, Alexandros Sigaras, Tim Spector, Ron Steinherz, Irene Stevens, Jaak Vilo, **Paul Wilmes**. "Building an international consortium for tracking coronavirus health status.", *Nature Medicine*, 26 - (8) - 1161-1165, [10.1038/s41591-020-0929-x](https://doi.org/10.1038/s41591-020-0929-x)
- **Lara Stute**, **Rejko Kruger**. "Ansätze zur Etablierung von Präzisionsmedizin bei der Parkinson-Krankheit mit dem Schwerpunkt Genetik [Emerging concepts for precision medicine in Parkinson's disease with focus on genetics].", *Fortschritte Der Neurologie Psychiatrie*, 88 - (9) - 558-566, [10.1055/a-1149-2204](https://doi.org/10.1055/a-1149-2204)
- Magdalena Calusinska, Martyna Marynowska, Marie Bertucci, Boris Untereiner, Dominika Klimek, Xavier Goux, David Sillam-Dusses, **Piotr Gawron**, **Rashi Halder**, **Paul Wilmes**, Pau Ferrer, Patrick Gerin, Yves Roisin, Philippe Delfosse. "Integrative omics analysis of the termite gut system adaptation to Miscanthus diet identifies lignocellulose degradation enzymes.", *Communications Biology*, 3 - (1) - 275, [10.1038/s42003-020-1004-3](https://doi.org/10.1038/s42003-020-1004-3)
- **Ines Thiele**, **Swagatika Sahoo**, Almut Heinken, Johannes Hertel, **Laurent Heirendt**, **Maik K Aurich**, Ronan Mt Fleming. "Personalized whole-body models integrate metabolism, physiology, and the gut microbiome.", *Molecular Systems Biology*, 16 - (5) - e8982, [10.15252/msb.20198982](https://doi.org/10.15252/msb.20198982)
- Leyla Garcia, Berenice Batut, Melissa L Burke, Mateusz Kuzak, Fotis Psomopoulos, Ricardo Arcila, Teresa K Attwood, Niall Beard, Denise Carvalho-Silva, Alexandros C Dimopoulos, Victoria Dominguez Del Angel, Michel Dumontier, Kim T Gurwitz, **Roland Krause**, Peter McQuilton, Loredana Le Pera, Sarah L Morgan, Paivi Rauste, Allegra Via, Pascal Kahlem, Gabriella Rustici, Celia W G van Gelder, Patricia M Palagi. "Ten simple rules for making training materials FAIR.", *Plos Computational Biology*, 16 - (5) - e1007854, [10.1371/journal.pcbi.1007854](https://doi.org/10.1371/journal.pcbi.1007854)
- Theo Brillatz, **Maxime Jacmin**, Konstantina Vougiogiannopoulou, Eleftherios A Petrakis, Eleftherios Kalpoutzakis, Joelle Houriet, Leonie Pellissier, Adriano Rutz, Laurence Marcourt, Emerson Ferreira Queiroz, **Alexander D Crawford**, Alexios-Leandros Skaltsounis, Jean-Luc Wolfender. "Antiseizure potential of the ancient Greek medicinal plant Helleborus odorus subsp. cyclophyllus and identification of its main active principles.", *Journal Of Ethnopharmacology*, 259 - 112954, [10.1016/j.jep.2020.112954](https://doi.org/10.1016/j.jep.2020.112954)
- **Armin Rauschenberger**, **Enrico Glaab**, Mark van de Wiel. "Predictive and interpretable models via the stacked elastic net.", *Bioinformatics*, 37 - (14) - 2012-6, [10.1093/bioinformatics/btaa535](https://doi.org/10.1093/bioinformatics/btaa535)
- **Lisa Maria Smits**, **Jens Christian Schwamborn**. "Midbrain Organoids: A New Tool to Investigate Parkinson's Disease.", *Frontiers In Cell And Developmental Biology*, 8 - 359, [10.3389/fcell.2020.00359](https://doi.org/10.3389/fcell.2020.00359)
- Li Yan, Hai-Tao Zhang, **Jorge Goncalves**, Yang Xiao, Maolin Wang, Yuqi Guo, Chuan Sun, Xiuchuan Tang, Liang Jing, Mingyang Zhang, Xiang Huang, Ying Xiao, Haosen Cao, Yanyan Chen, Tongxin Ren, Fang Wang, Yaru Xiao, Sufang Huang, Xi Tan, Niannian Huang, Bo Jiao, Cheng Cheng, Yong Zhang, Ailin Luo, Laurent Mombaerts, Junyang Jin, Zhiguo Cao, Shusheng Li, Hui Xu, Ye Yuan. "An interpretable mortality prediction model for COVID-19 patients", *Nature Machine Intelligence*, 2 - (May2020) - 283-288, [10.1038/s42256-020-0180-7](https://doi.org/10.1038/s42256-020-0180-7)
- Junyang Jin, Ye Yuan, **Jorge Goncalves**. "High precision variational Bayesian inference of sparse linear networks", *Automatica*, 118 - [10.1016/j.automatica.2020.109017](https://doi.org/10.1016/j.automatica.2020.109017)
- Sumaiya Iqbal, **David Hoksza**, Eduardo Perez-Palma, **Patrick May**, Jakob B Jespersen, Shehab S Ahmed, Zaara T Rifat, Henrike O Heyne, M Sohel Rahman, Jeffrey R Cottrell, Florence F Wagner, Mark J Daly, Arthur J Campbell, Dennis Lal. "MISCAST: Mlssense variant to protein StruCTure Analysis web Suite.", *Nucleic Acids Research*, 48 - (W1) - W132-9, [10.1093/nar/gkaa361](https://doi.org/10.1093/nar/gkaa361)
- **Anna S Monzel**, **Kathrin Hemmer**, Tony Kaoma, **Lisa M Smits**, **Silvia Bolognin**, **Philippe Lucarelli**, **Isabel Rosety**, **Alise Zagare**, **Paul Antony**, **Sarah L Nickels**, **Rejko Krueger**, Francisco Azuaje, **Jens C Schwamborn**. "Machine learning-assisted neurotoxicity prediction in human midbrain organoids.", *Parkinsonism & Related Disorders*, 75 - 105-109, [10.1016/j.parkreldis.2020.05.011](https://doi.org/10.1016/j.parkreldis.2020.05.011)
- Dimitri Panagopoulos Abrahamsson, June-Soo Park, **Randolph R Singh**, Marina Sirota, Tracey J Woodruff. "Applications of Machine Learning to In Silico Quantification of Chemicals without Analytical Standards.", *Journal Of Chemical Information And Modeling*, 60 - (6) - 2718-2727, [10.1021/acs.jcim.9b01096](https://doi.org/10.1021/acs.jcim.9b01096)
- **Marek Ostaszewski**, **Alexander Mazein**, Marc E Gillespie, Inna Kuperstein, Anna Niarakis, Henning Hermjakob, Alexander R Pico, Egon L Willighagen, Chris T Evelo, Jan Hasenauer, Falk Schreiber, Andreas Dräger, Emek Demir, Olaf Wolkenhauer, Laura I Furlong, Emmanuel Barillot, Joaquin Dopazo, Aurelio Orta-Resendiz, Francesco Messina, Alfonso Valencia, Akira Funahashi, Hiroaki Kitano, Charles Auffray, **Rudi Balling**, **Reinhard Schneider**. "COVID-19 Disease Map, building a computational repository of SARS-CoV-2 virus-host interaction mechanisms.", *Scientific Data*, 7 - (1) - 136, [10.1038/s41597-020-0477-8](https://doi.org/10.1038/s41597-020-0477-8)



- **Susan Ghaderi, Hulda S Haraldsdottir, Masoud Ahoosh, Sylvain Arreckx, Ronan M T Fleming.** "Structural conserved moiety splitting of a stoichiometric matrix.", *Journal Of Theoretical Biology*, 499 - 110276, [10.1016/j.jtbi.2020.110276](https://doi.org/10.1016/j.jtbi.2020.110276)
- Christine Orengo, Sameer Velankar, Shoshana Wodak, Vincent Zoete, Alexandre M J J Bonvin, Arne Elofsson, K Anton Feenstra, **Dietland L Gerloff**, Thomas Hamelryck, John M Hancock, Manuela Helmer-Citterich, Adam Hospital, Modesto Orozco, Anastassis Perrakis, Matthias Rarey, Claudio Soares, Joel L Sussman, Janet M Thornton, Pierre Tuffery, Gabor Tusnady, Rikkert Wierenga, Tiina Salminen, Bohdan Schneider. "A community proposal to integrate structural bioinformatics activities in ELIXIR (3D-Bioinfo Community).", *F1000Research*, 9 - [10.12688/f1000research.20559.1](https://doi.org/10.12688/f1000research.20559.1)
- Marta Palomo-Irigoyen, Encarnacion Perez-Andres, Marta Iruarizaga-Lejarreta, Adrian Barreira Manrique, Miguel Tamayo-Caro, Laura Vila-Vecilla, Leire Moreno-Cugnon, Nagore Beitia Telletxea, Daniela Medrano, David Fernandez-Ramos, Juan-Jose Lozano, **Satoshi Okawa**, Jose Luis Lavin, Natalia Martin-Martin, James D Sutherland, Virginia Gutierrez-de Juan, Monika Gonzalez-Lopez, Nuria Macias-Camara, David Mosen-Ansorena, Liyam Laraba, C Oliver Hanemann, Emanuela Ercolano, David B Parkinson, Christopher W Schultz, Marcos J Arauzo-Bravo, Alex M Ascension, Daniela Gerovska, Haizea Iribar, Ander Izeta, Peter Pytel, Philipp Krastel, Alessandro Provenzani, Pierfausto Seneci, Ruben D Carrasco, **Antonio Del Sol**, Maria L Martinez Chantar, Rosa Barrio, Eduard Serra, Conxi Lazaro, Adrienne M Flanagan, Myriam Gorospe, Nancy Ratner, Arkaitz Carracedo, Ana Maria Aransay, Marta Varela-Rey, Ashwin Woodhoo. "HuR/ELAVL1 drives malignant peripheral nerve sheath tumour growth and metastasis.", *Journal Of Clinical Investigation*, 130 - (7) - 3848-3864, [10.1172/JCI130379](https://doi.org/10.1172/JCI130379)
- Zeribe Chike Nwosu, Weronika Pioronska, **Nadia Battello**, Andreas David Zimmer, Bedair Dewidar, Mei Han, Sharon Pereira, Biljana Blagojevic, Darko Castven, Verodia Charlestin, Pavlo Holenya, Julia Lothead, Carolina De La Torre, Norbert Gretz, Peter Sajjakulnukit, Li Zhang, Matthew H Ward, Jens U Marquardt, Marina Pasca di Magliano, Costas A Lyssiotis, Jonathan Sleeman, Stefan Wolff, Matthias Philip Ebert, Christoph Meyer, Ute Hofmann, Steven Dooley. "Severe metabolic alterations in liver cancer lead to ERK pathway activation and drug resistance.", *Ebiomedicine*, 54 - 102699, [10.1016/j.ebiom.2020.102699](https://doi.org/10.1016/j.ebiom.2020.102699)
- Stefan Wolking, Herbert Schulz, Anne T Nies, Mark McCormack, Elke Schaeffeler, Pauls Auce, Andreja Avbersek, Felicitas Becker, Karl M Klein, Martin Krenn, Rikke S Moller, Marina Nikanorova, Sarah Weckhuysen, **EpiPGx Consortium**, Gianpiero L Cavalleri, Norman Delanty, Chantal Depondt, Michael R Johnson, Bobby Pc Koeleman, Wolfram S Kunz, Anthony G Marson, Josemir W Sander, Graeme J Sills, Pasquale Striano, Federico Zara, Fritz Zimprich, Yvonne G Weber, **Roland Krause**, Sanjay Sisodiya, Matthias Schwab, Thomas Sander, Holger Lerche. "Pharmacoresponse in genetic generalized epilepsy: a genome-wide association study.", *Pharmacogenomics*, 21 - (5) - 325-335, [10.2217/pgs-2019-0179](https://doi.org/10.2217/pgs-2019-0179)
- Vidisha Singh, George D Kalliolias, **Marek Ostaszewski**, Maeva Veyssiere, Eleftherios Pilalis, **Piotr Gawron, Alexander Mazein**, Eric Bonnet, Elisabeth Petit-Teixeira, Anna Niarakis. "RA-map: building a state-of-the-art interactive knowledge base for rheumatoid arthritis.", *Database-The Journal Of Biological Databases And Curation*, 2020 - 1-18, [10.1093/database/baaa017](https://doi.org/10.1093/database/baaa017)
- Jian-Hua Mao, Young-Mo Kim, Yan-Xia Zhou, Dehong Hu, Chenhan Zhong, Hang Chang, Colin Brislawn, Sasha Langley, Yunshan Wang, **B Y Loulou Peisl**, Susan E Celniker, David W Threadgill, **Paul Wilmes**, Galya Orr, Thomas O Metz, Janet K Jansson, Antoine M Snijders. "Genetic and metabolic links between the murine microbiome and memory.", *Microbiome*, 8 - (1) - 53, [10.1186/s40168-020-00817-w](https://doi.org/10.1186/s40168-020-00817-w)
- Theo Brillatz, **Maxime Jacmin**, Emerson Ferreira Queiroz, Laurence Marcourt, Ivan Slacanin, Charlotte Petit, Pierre-Alain Carrupt, Elisabeth Ngo Bum, Paul Herrling, **Alexander D Crawford**, Jean-Luc Wolfender. "Zebrafish bioassay-guided isolation of antiseizure compounds from the Cameroonian medicinal plant *Cyperus articulatus* L.", *Phytomedicine*, 70 - 153175, [10.1016/j.phymed.2020.153175](https://doi.org/10.1016/j.phymed.2020.153175)
- Nicolas Chatron, Felicitas Becker, Heba Morsy, Miriam Schmidts, Katia Hardies, Beyhan Tuysuz, Sandra Roselli, Maryam Najafi, Dilek Uludag Alkaya, Farah Ashrafzadeh, Amira Nabil, Tarek Omar, Reza Maroofian, Ehsan Ghayoor Karimiani, Haytham Hussien, Fernando Kok, Luiza Ramos, Nilay Gunes, Kaya Bilguvar, Audrey Labalme, Eudeline Alix, Damien Sanlaville, Julitta de Bellescize, Anne Lise Poulat, **EuroEpinomics-RES consortium AR working group**, Ali Reza Moslemi, Holger Lerche, **Patrick May**, Gaetan Lesca, Sarah Weckhuysen, Homa Tajsharghi. "Bi-allelic GAD1 variants cause a neonatal onset syndromic developmental and epileptic encephalopathy", *Brain*, 143 - (5) - 1447-1461, [10.1093/brain/awaa085](https://doi.org/10.1093/brain/awaa085)
- **Clara Berenguer-Escuder, Dajana Grossmann, Paul Antony, Giuseppe Arena, Kobi Wasner, Francois Massart, Javier Jarazo, Jonas Walter, Jens C Schwamborn, Anne Grunewald, Rejko Kruger.** "Impaired Mitochondrial-Endoplasmic Reticulum Interaction and Mitophagy in Miro1-Mutant Neurons in Parkinson's Disease.", *Human Molecular Genetics*, 29 - (8) - 1353-64, [10.1093/hmg/ddaa066](https://doi.org/10.1093/hmg/ddaa066)
- Susanne Hollmann, Andreas Kremer, Spela Baebler, **Christophe Trefois**, Kristina Gruden, Witold R Rudnicki, Weida Tong, Aleksandra Gruca, Erik Bongcam-Rudloff, Chris T Evelo, Alina Nechyporenko, Marcus Frohme, David Safranek, Babette Regierer, Domenica D'Elia. "The need for standardisation in life science research - an approach to excellence and trust.", *F1000Research*, 9 - 1398, [10.12688/f1000research.27500.1](https://doi.org/10.12688/f1000research.27500.1)
- **Simone B Larsen, Zoe Hanss, Gerald Cruciani, Francois Massart, Peter A Barbuti**, George Mellick, **Rejko Kruger.** "Induced pluripotent stem cell line (LCSBi001-A) derived from a patient with Parkinson's disease carrying the p.D620N mutation in VPS35.", *Stem Cell Research*, 45 - 101776, [10.1016/j.scr.2020.101776](https://doi.org/10.1016/j.scr.2020.101776)
- **Jochen Ohnmacht, Patrick May**, Lasse Sinkkonen, **Rejko Kruger.** "Missing heritability in Parkinson's disease: the emerging role of non-coding genetic variation.", *Journal Of Neural Transmission*, 127 - (5) - 729-748, [10.1007/s00702-020-02184-0](https://doi.org/10.1007/s00702-020-02184-0)
- **Camille Martin-Gallausiaux**, Ludovica Marinelli, Herve M Blottiere, Pierre Larrauffie, Nicolas Lapaque. "SCFA: mechanisms and functional importance in the gut.", *Proceedings Of The Nutrition Society*, 80 - (1) - 37-49, [10.1017/S0029665120006916](https://doi.org/10.1017/S0029665120006916)
- M G Cosenza, **M E Gavidia**, J C Gonzalez-Avella. "Against mass media trends: Minority growth in cultural globalization.", *Plos One*, 15 - (4) - e0230923, [10.1371/journal.pone.0230923](https://doi.org/10.1371/journal.pone.0230923)
- **Ahmed A Hemedan**, Mohamed Abd Elaziz, Pengcheng Jiao, Amir H Alavi, Mahmoud Bahgat, **Marek Ostaszewski, Reinhard Schneider**, Haneen A Ghazy, Ahmed A Ewees, Songfeng Lu. "Prediction of the Vaccine-derived Poliovirus Outbreak Incidence: A Hybrid Machine Learning Approach.", *Scientific Reports*, 10 - (1) - 5058, [10.1038/s41598-020-61853-y](https://doi.org/10.1038/s41598-020-61853-y)
- Dennis Lal, **Patrick May**, Eduardo Perez-Palma, Kaitlin E Samocha, Jack A Kosmicki, Elise B Robinson, Rikke S Moller, **Roland Krause**, Peter Nurnberg, Sarah Weckhuysen, Peter De Jonghe, Renzo Guerrini, Lisa M Niestroj, Juliana Du, Carla Marini, James S Ware, Mitja Kurki, Padhraig Gormley, Sha Tang, Sitao Wu, Saskia Biskup, Annapurna Poduri, Bernd A Neubauer, Bobby P C Koeleman, Katherine L Helbig, Yvonne G Weber, Ingo Helbig, Amit R Majithia, Aarno Palotie, Mark J Daly, **EuroEPINOMICS-RES Consortium.** "Gene family information facilitates variant interpretation and identification of disease-associated genes in neurodevelopmental disorders.", *Genome Medicine*, 12 - (1) - 28, [10.1186/s13073-020-00725-6](https://doi.org/10.1186/s13073-020-00725-6)
- Henry Kurniawan, Davide G Franchina, Luana Guerra, Lynn Bonetti, Leticia Soriano -Baguet, Melanie Grusdat, Lisa Schlicker, Oliver Hunewald, Catherine Dostert, Myriam P Merz, Carole Binsfeld, Gordon S Duncan, Sophie Farinelle, Yannic Nonnenmacher, Jillian Haight, Dennis Das Gupta, Anouk Ewen, Rabia Taskesen, **Rashi Halder**, Ying Chen, **Christian Jager**, Markus Ollert, **Paul Wilmes**, Vasilis Vasilioi, Isaac S Harris, Christiane B Knobbe-Thomsen, Jonathan D Turner, Tak W Mak, Michael Lohoff, Johannes Meiser, Karsten Hiller, **Dirk Brenner.** "Glutathione Restricts Serine Metabolism to Preserve Regulatory T Cell Function.", *Cell Metabolism*, 31 - (5) - 920-936.e7, [10.1016/j.cmet.2020.03.004](https://doi.org/10.1016/j.cmet.2020.03.004)

- Lara M Paulo, Juan Castilla-Archilla, **Javier Ramiro-Garcia**, Jose Antonio Escamez-Picon, Dermot Hughes, Therese Mahony, Michael Murray, **Paul Wilmes**, Vincent O'Flaherty. "Microbial Community Redundancy and Resilience Underpins High-Rate Anaerobic Treatment of Dairy-Processing Wastewater at Ambient Temperatures.", *Frontiers In Bioengineering And Biotechnology*, 8 - 192, [10.3389/fbioe.2020.00192](https://doi.org/10.3389/fbioe.2020.00192)
- Herbert Oberacher, Michael Sasse, Jean Philippe Antignac, Yann Guitton, Laurent Debrauwer, Emilien L. Jamin, Tobias Schulze, Martin Krauss, Adrian Covaci, Noelia Caballero-Casero, Kathleen Rousseau, Annelaure Damont, François Fenaille, Marja Lamoree, **Emma L. Schymanski**. "A European proposal for quality control and quality assurance of tandem mass spectral libraries", *Environmental Sciences Europe*, 32 - (1) - [10.1186/s12302-020-00314-9](https://doi.org/10.1186/s12302-020-00314-9)
- Ana Sofia Rodrigues, **Sandro L Pereira**, Joao Ramalho-Santos. "Stem metabolism: Insights from oncometabolism and vice versa.", *Biochimica Et Biophysica Acta-Molecular Basis Of Disease*, 1866 - (7) - 165760, [10.1016/j.bbadis.2020.165760](https://doi.org/10.1016/j.bbadis.2020.165760)
- Stefan Wolking, Claudia Moreau, Anne T Nies, Elke Schaeffeler, Mark McCormack, Pauls Auce, Andreja Avbersek, Felicitas Becker, Martin Krenn, Rikke S Moller, Marina Nikanorova, Yvonne G Weber, Sarah Weckhuysen, Gianpiero L Cavalleri, Norman Delanty, Chantal Depondt, Michael R Johnson, Bobby P C Koeleman, Wolfram S Kunz, Anthony G Marson, Josemir W Sander, Graeme J Sills, Pasquale Striano, Federico Zara, Fritz Zimprich, Matthias Schwab, **Roland Krause**, Sanjay M Sisodiya, Patrick Cossette, Simon L Girard, Holger Lerche, **EpiPGX Consortium**. "Testing association of rare genetic variants with resistance to three common antiepileptic medications.", *Epilepsia*, 61 - (4) - 657-666, [10.1111/epi.16467](https://doi.org/10.1111/epi.16467)
- Tobias Fehlmann, Mustafa Kahraman, Nicole Ludwig, Christina Backes, Valentina Galata, Verena Keller, **Lars Geffers**, Nathaniel Mercado, Daniela Hornung, Tanja Weis, Elham Kayvanpour, Masood Abu-Halima, Christian Deuschle, Claudia Schulte, Ulrike Suenkel, Anna-Katharina von Thaler, Walter Maetzler, Christian Herr, Sebastian Fahndrich, Claus Vogelmeier, Pedro Guimaraes, Anne Hecksteden, Tim Meyer, Florian Metzger, Caroline Diener, Stephanie Deutscher, Hashim Abdul-Khaliq, Ingo Stehle, Sebastian Haeusler, Andreas Meiser, Heinrich V Groesdonk, Thomas Volk, Hans-Peter Lenhof, Hugo Katus, **Rudi Balling**, Benjamin Meder, **Rejko Kruger**, Hanno Huwer, Robert Bals, Eckart Meese, Andreas Keller. "Evaluating the Use of Circulating MicroRNA Profiles for Lung Cancer Detection in Symptomatic Patients.", *Jama Oncology*, 6 - (5) - 714-723, [10.1001/jamaoncol.2020.0001](https://doi.org/10.1001/jamaoncol.2020.0001)
- Fubo Cheng, Michael Walter, Zinah Wassouf, Thomas Hentrich, Nicolas Casadei, Julia Schulze-Hentrich, **Peter Barbuti**, **Rejko Krueger**, Olaf Riess, Kathrin Grundmann-Hauser, Thomas Ott. "Unraveling Molecular Mechanisms of THAP1 Missense Mutations in DYT6 Dystonia.", *Journal Of Molecular Neuroscience*, 70 - (7) - 999-1008, [10.1007/s12031-020-01490-2](https://doi.org/10.1007/s12031-020-01490-2)
- Ettore Tiraboschi, **Silvia Martina**, Wietske van der Ent, **Kamil Grzyb**, Kinga Gawel, **Maria Lorena Cordero-Maldonado**, **Suresh Kumar Poovathingal**, Sarah Heintz, Somisetty Venkata Satheesh, Jarle Brattespe, Ju Xu, Maximiliano Suster, **Alexander Skupin**, Camila V Esguerra. "New insights into the early mechanisms of epileptogenesis in a zebrafish model of Dravet syndrome.", *Epilepsia*, 61 - (3) - 549-560, [10.1111/epi.16456](https://doi.org/10.1111/epi.16456)
- F M Aarestrup, A Albeyatti, W J Armitage, C Auffray, L Augello, **R Balling**, N Benhabiles, G Bertolini, J G Bjaalie, M Black, N Blomberg, P Bogaert, M Bubak, B Claerhout, L Clarke, B De Meulder, G D'Errico, A Di Meglio, N Forgo, C Gans-Combe, A E Gray, I Gut, A Gyllenberg, G Hemmrich-Stanisak, L Hjorth, Y Ioannidis, S Jarmalaite, A Kel, F Kherif, J O Korbek, C Larue, M Laszlo, A Maas, L Magalhaes, I Manneh-Vangramberen, E Morley-Fletcher, C Ohmann, P Oksvold, N P Oxtoby, I Perseil, V Pezoulas, O Riess, H Riper, J Roca, P Rosenstiel, P Sabatier, F Sanz, M Tayeb, G Thomassen, J Van Bussel, M Van den Bulcke, H Van Oyen. "Towards a European health research and innovation cloud (HRIC).", *Genome Medicine*, 12 - (1) - 18, [10.1186/s13073-020-0713-z](https://doi.org/10.1186/s13073-020-0713-z)
- D Weghuber, A Forslund, H Ahlstrom, A Alderborn, K Bergstrom, S Brunner, J Cadamuro, I Ciba, M Dahlbom, V Heu, J Hofmann, H Kristinsson, J Kullberg, A Ladinger, F B Lagler, M Lidstrom, H Manell, M Meirik, K Morwald, **K Roomp**, **R Schneider**, H Vilen, K Widhalm, F Zsoldos, P Bergsten. "A 6-month randomized, double-blind, placebo-controlled trial of weekly exenatide in adolescents with obesity.", *Pediatric Obesity*, 15 - (7) - e12624, [10.1111/ijpo.12624](https://doi.org/10.1111/ijpo.12624)
- Heike Kollmus, Helmut Fuchs, Christoph Lengger, Hamed Haselimashhadi, Molly A Bogue, Manuela A Ostreicher, Marion Horsch, Thure Adler, Juan Antonio Aguilar-Pimentel, Oana Veronica Amarie, Lore Becker, Johannes Beckers, Julia Calzada-Wack, Lillian Garrett, Wolfgang Hans, Sabine M Holter, Tanja Klein-Rodewald, Holger Maier, Philipp Mayer-Kuckuk, Gregor Miller, Kristin Moreth, Frauke Neff, Birgit Rathkolb, Ildiko Racz, Jan Rozman, Nadine Spielmann, Irina Treise, Dirk Busch, Jochen Graw, Thomas Klopstock, Eckhard Wolf, Wolfgang Wurst, Ali Onder Yildirim, Jeremy Mason, Arturo Torres, **Rudi Balling**, Terry Mehaan, Valerie Gailus-Durner, Klaus Schughart, Martin Hrabe de Angelis, Mouse Phenome Database Team. "A comprehensive and comparative phenotypic analysis of the collaborative founder strains identifies new and known phenotypes.", *Mammalian Genome*, 31 - (1) - 30-48, [10.1007/s00335-020-09827-3](https://doi.org/10.1007/s00335-020-09827-3)
- Dominik Ternes, Jessica Karta, Mina Tsenkova, **Paul Wilmes**, Serge Haan, Elisabeth Letellier. "Microbiome in Colorectal Cancer: How to Get from Meta-omics to Mechanism?", *Trends In Microbiology*, 28 - (5) - 401-423, [10.1016/j.tim.2020.01.001](https://doi.org/10.1016/j.tim.2020.01.001)
- Dheeraj Reddy Bobbili**, **Peter Banda**, **Rejko Kruger**, **Patrick May**. "Excess of singleton loss-of-function variants in Parkinson's disease contributes to genetic risk.", *Journal Of Medical Genetics*, 57 - (9) - 617-23, [10.1136/jmedgenet-2019-106316](https://doi.org/10.1136/jmedgenet-2019-106316)
- Michael W Ronellenfitsch, Patrick N Harter, Martina Kirchner, Christoph Heining, Barbara Hutter, Laura Geldon, Jens Schittenhelm, Martin U Schuhmann, Marcos Tatagiba, Gerhard Marquardt, Marlies Wagner, Volker Endris, Christian H Brandts, Victor-Felix Mautner, Evelin Schrock, Wilko Weichert, Benedikt Brors, Andreas von Deimling, **Michel Mittelbronn**, Joachim P Steinbach, David E Reuss, Hanno Glimm, Albrecht Stenzinger, Stefan Frohling. "Targetable ERBB2 mutations identified in neurofibroma/schwannoma hybrid nerve sheath tumors.", *Journal Of Clinical Investigation*, 130 - (5) - 2488-2495, [10.1172/JCI130787](https://doi.org/10.1172/JCI130787)
- P M A Antony**, **O Kondratyeva**, **K Mommaerts**, **M Ostaszewski**, K Sokolowska, **A S Baumuratov**, L Longhino, J F Poulain, **D Grossmann**, **R Balling**, **R Kruger**, N J Diederich. "Fibroblast mitochondria in idiopathic Parkinson's disease display morphological changes and enhanced resistance to depolarization.", *Scientific Reports*, 10 - (1) - 1569, [10.1038/s41598-020-58505-6](https://doi.org/10.1038/s41598-020-58505-6)
- Caroline Lacoux, **Aymeric Fouquier d'Herouel**, Françoise Wessner-Le Bohec, Nicolas Innocenti, Chantal Bohn, Sean P Kennedy, Tatiana Rochat, Remy A Bonnin, Pascale Serron, Erik Aurell, Philippe Bouloc, Francis Repoila. "Dynamic insights on transcription initiation and RNA processing during bacterial adaptation.", *Rna*, 26 - (4) - 382-395, [10.1261/rna.073288.119](https://doi.org/10.1261/rna.073288.119)
- Beate I Escher, Heather M Stapleton, **Emma L Schymanski**. "Tracking complex mixtures of chemicals in our changing environment.", *Science*, 367 - (6476) - 388-92, [10.1126/science.aay6636](https://doi.org/10.1126/science.aay6636)
- Roel Vermeulen, **Emma L Schymanski**, Albert-Laszlo Barabasi, Gary W Miller. "The exposome and health: Where chemistry meets biology.", *Science*, 367 - (6476) - 392-396, [10.1126/science.aay3164](https://doi.org/10.1126/science.aay3164)
- Masoud Ahookhosh**, **Ronan M.T. Fleming**, **Phan T. Vuong**. "Finding zeros of Hölder metricly subregular mappings via globally convergent Levenberg–Marquardt methods", *Optimization Methods & Software*, 37 - (1) - 113-149, [10.1080/10556788.2020.1712602](https://doi.org/10.1080/10556788.2020.1712602)
- Yolanda Pires-Afonso, Simone P Niclou, **Alessandro Michelucci**. "Revealing and Harnessing Tumour-Associated Microglia/Macrophage Heterogeneity in Glioblastoma.", *International Journal Of Molecular Sciences*, 21 - (3) - [10.3390/ijms21030689](https://doi.org/10.3390/ijms21030689)
- Antoine Buetti-Dinh, **Malte Herold**, Stephan Christel, Mohamed El Hajjami, Francesco Delogu, Olga Ilie, Soren Bellenberg, **Paul Wilmes**, Ansgar Poetsch, Wolfgang Sand, Mario Vera, Igor V Pivkin, Ran Friedman, Mark Dopson. "Reverse engineering directed gene regulatory networks from transcriptomics and proteomics data of biomining bacterial communities with approximate Bayesian computation and steady-state signalling simulations.", *Bmc Bioinformatics*, 21

- (1) - 23, [10.1186/s12859-019-3337-9](https://doi.org/10.1186/s12859-019-3337-9)

- **Zoé Hanss, Ibrahim Boussaad, Javier Jarazo, Jens C. Schwamborn, Rejko Krüger.** "Quality Control Strategy for CRISPR-Cas9-Based Gene Editing Complicated by a Pseudogene.", *Frontiers In Genetics*, 10 - 1297, [10.3389/fgene.2019.01297](https://doi.org/10.3389/fgene.2019.01297)
- Cherine Charfeddine, Hamza Dallali, Ghaith Abdessalem, Kais Ghedira, Yosr Hamdi, Sahar Elouej, **Zied Landoulsi**, Valerie Delague, Arnaud Lagarde, Nicolas Levy, Aziz El-Amraoui, Mohamed Samir Boubaker, Sonia Abdelhak, Mourad Mokni. "Identification of a CDH12 potential candidate genetic variant for an autosomal dominant form of transgrediens and progrediens palmoplantar keratoderma in a Tunisian family.", *Journal Of Human Genetics*, 65 - (4) - 397-410, [10.1038/s10038-019-0711-4](https://doi.org/10.1038/s10038-019-0711-4)
- Irina Balaur, Ludovic Roy, **Alexander Mazein**, S Gokberk Karaca, Ugur Dogrusoz, Emmanuel Barillot, Andrei Zinovyev. "cd2sbgm: bidirectional conversion between CellDesigner and SBGN formats.", *Bioinformatics*, 36 - (8) - 2620-2622, [10.1093/bioinformatics/btz969](https://doi.org/10.1093/bioinformatics/btz969)

## Working Paper

- Michal Burzynski, Joël Machado, **Atte Aalto**, Michel Beine, Tom Haas, **Françoise Kemp, Stefano Magni, Laurent Mombaerts**, Pierre Picard, **Daniele Proverbio, Alexander Skupin**, Frédéric Docquier. "COVID-19 Crisis Management in Luxembourg: Insights from an Epidemionomic Approach", IDEAS, (2020-08) - [RePEc:irs:cepswp:2020-08](https://repec.irs.cepswp.2020-08)

## 2019

### Book

- Jake Powell, Martin Falcke, **Alexander Skupin**, Tomas C Bellamy, Theodore Kyraios, Rudiger Thul. "A Statistical View on Calcium Oscillations.", *A Statistical View on Calcium Oscillations. Calcium Signaling. Advances in Experimental Medicine and Biology*, *Advances In Experimental Medicine And Biology*, 1131 - 799-826, [10.1007/978-3-030-12457-1\\_32](https://doi.org/10.1007/978-3-030-12457-1_32)
- **Rudi Balling**. "Out of Curiosity from Blue Sky Research to Medical Innovation", *Curious* 2018, 87-94,
- **Rudi Balling, Jorge Goncalves, Stefano Magni, Laurent Mombaerts, Alice Oldano, Alexander Skupin.** "From Diagnosing Diseases to Predicting Diseases", *Curious* 2018, 95-103,
- Gael Quesseveur, **Aymeric Fouquier d'Herouel**, Keith K Murai, **David S Bouvier**. "A Specialized Method to Resolve Fine 3D Features of Astrocytes in Nonhuman Primate (Marmoset, Callithrix jacchus) and Human Fixed Brain Samples.", *Astrocytes. Methods and Protocols.*, *Methods In Molecular Biology* (Clifton, N.J.), 1938 - 85-95, [10.1007/978-1-4939-9068-9\\_6](https://doi.org/10.1007/978-1-4939-9068-9_6)

### Book Series

- **Andras Hartmann, Srikanth Ravichandran, Antonio Del Sol.** "Modeling Cellular Differentiation and Reprogramming with Gene Regulatory Networks.", *Computational Stem Cell Biology, Methods In Molecular Biology* (Clifton, N.J.), 1975 - 37-51, [10.1007/978-1-4939-9224-9\\_2](https://doi.org/10.1007/978-1-4939-9224-9_2)

### Case Reports

- Constanze Buus-Gehrig, Thomas Lehrnbecher, Luciana Porto, Martina Becker, Thomas Freiman, **Michel Mittelbronn**, Konrad Bochenek. "Pontine tumor in a neonate: case report and analysis of the current literature.", *Journal Of Neurosurgery-Pediatrics*, 23 - (5) - 1-7, [10.3171/2018.10.PEDS18215](https://doi.org/10.3171/2018.10.PEDS18215)

### Conference Proceeding

- **Laurent Mombaerts, Atte Aalto, Johan Markdahl, Jorge Goncalves.** "A multifactorial evaluation framework for gene regulatory network reconstruction", *IFAC-PapersOnLine*, 52 - (26) - 262-268, [10.1016/j.ifacol.2019.12.268](https://doi.org/10.1016/j.ifacol.2019.12.268)
- **Zuogong Yue, Johan Thunberg, Jorge Goncalves.** "Network Stability, Realisation and Random Model Generation", *Proceedings of the IEEE Conference on Decision and Control*, 2019-December - 4539-4544, [10.1109/CDC40024.2019.9029253](https://doi.org/10.1109/CDC40024.2019.9029253)
- **Johan Markdahl, Johan Thunberg, Jorge Goncalves.** "Towards Almost Global Synchronization on the Stiefel Manifold", *Proceedings of the IEEE Conference on Decision and Control*, 2018-December - 496-501, [10.1109/CDC.2018.8619593](https://doi.org/10.1109/CDC.2018.8619593)

### Editorial

- Sayane Shome, R. Gonzalo Parra, Nazeefa Fatima, Alexander Miguel Monzon, Bart Cuypers, Yumna Moosa, Nilson Da Rocha Coimbra, Juliana Assis, Carla Giner-Delgado, Handan Melike Dönerta, Yesid Cuesta-Astroz, Geetha Saarunya, Imane Allali, Shruti Gupta, Ambuj Srivastava, Manisha Kalsan, Catalina Valdivia, Gabriel J. Olguin-Orellana, Sofia Papadimitriou, Daniele Parisi, Nikolaj Pagh Kristensen, Leonor Rib, **Marouen Ben Guebila, Eugen Bauer, Gaia Zaffaroni**, Amel Bekkar, Efejiro Ashano, Lisanna Paladin, Marco Necci, Nicolás N. Moreyra, Martin Rydén, Jordan Villalobos-Solís, Nikolaos Papadopoulos, Candice Rafael, Tülay Karakulak, Yasin Kaya, Yvonne Gladbach, Sandeep Kumar Dhanda, Nikolina Šoštari, Aishwarya Alex, Dan DeBlasio, Farzana Rahman. "Global network of computational biology communities: ISCB's Regional Student Groups breaking barriers.", *F1000Research*, 8 - [10.12688/f1000research.20408.1](https://doi.org/10.12688/f1000research.20408.1)
- **Rudi Balling**, Patrick J Stover. "Addressing the Increased Expectations of Nutrition.", *Annual Review Of Nutrition*, 39 - v-vi, [10.1146/annurev-nu-39-190619-100001](https://doi.org/10.1146/annurev-nu-39-190619-100001)
- Werner Brack, Selim Ait-Aissa, Rolf Altenburger, Ian Cousins, Valeria Dulio, Beate Escher, Andreas Focks, Antoni Ginebreda, Daniel Hering, Klára Hilscherová, Juliane Hollender, Henner Hollert, Andreas Kortenkamp, Miren López de Alda, Leo Posthuma, **Emma Schymanski**, Helmut Segner, Jaroslav Slobodnik. "Let us empower the WFD to prevent risks of chemical pollution in European rivers and lakes", *Environmental Sciences Europe*, 31 - (1) - [10.1186/s12302-019-0228-7](https://doi.org/10.1186/s12302-019-0228-7)
- Eva-Juliane Vollstedt, Meike Kasten, Christine Klein, **MJFF Global Genetic Parkinson's Disease Study Group.** "Using global team science to identify genetic parkinson's disease worldwide.", *Annals Of Neurology*, 86 - (2) - 153-157, [10.1002/ana.25514](https://doi.org/10.1002/ana.25514)

- Daniele Parisi, Gabriel J. Olguin-Orellana, Eli J. Draizen, Nilson Da Rocha Coimbra, Nikolaos Papadopoulos, **Susanne Kirchen**, Yvonne Saara Gladbach, Numrah Fadra, Nazeefa Fatima, **Aishwarya Alex Namasivayam**, Sayane Shome, Dan DeBlasio, Alexander M. Monzon, Farzana Rahman, R. Gonzalo Parra. "Nurturing tomorrow's leaders: The ISCB Student Council Symposia in 2018.", F1000Research, 8 - [10.12688/f1000research.17739.1](https://doi.org/10.12688/f1000research.17739.1)

## Journal

- **Gemma Gomez-Giro**, **Jonathan Arias-Fuenzalida**, **Javier Jarazo**, Dagmar Zeuschner, **Muhammad Ali**, **Nina Possemis**, **Silvia Bolognin**, **Rashi Halder**, **Christian Jäger**, Willemijn F. E. Kuper, Peter M. van Hasselt, Holm Zaehres, **Antonio del Sol**, Herman van der Putten, Hans R. Schöler, **Jens C. Schwamborn**. "Synapse alterations precede neuronal damage and storage pathology in a human cerebral organoid model of CLN3-juvenile neuronal ceroid lipofuscinosis.", Acta Neuropathologica Communications, 7 - (1) - 222, [10.1186/s40478-019-0871-7](https://doi.org/10.1186/s40478-019-0871-7)
- Eduardo Perez-Palma, **Patrick May**, Sumaiya Iqbal, Lisa-Marie Niestroj, Juanjiangmeng Du, Henrike O Heyne, Jessica A Castrillon, Anne O'Donnell-Luria, Peter Nurnberg, Aarno Palotie, Mark Daly, Dennis Lal. "Identification of pathogenic variant enriched regions across genes and gene families.", Genome Research, 30 - (1) - 62-71, [10.1101/gr.252601.119](https://doi.org/10.1101/gr.252601.119)
- Jukka Intosalmi, Adrian C Scott, Michelle Hays, Nicholas Flann, Olli Yli-Harja, Harri Lahdesmaki, Aimee M Dudley, **Alexander Skupin**. "Data-driven multiscale modeling reveals the role of metabolic coupling for the spatio-temporal growth dynamics of yeast colonies.", Rsc Medicinal Chemistry, 20 - (1) - 59, [10.1186/s12860-019-0234-z](https://doi.org/10.1186/s12860-019-0234-z)
- **Clara Berenguer-Escuder**, **Dajana Grossmann**, **Francois Massart**, **Paul Antony**, Lena F Burbulla, **Enrico Glaab**, Sophie Imhoff, Joanne Trinh, Philip Seibler, **Anne Grunewald**, **Rejko Kruger**. "Variants in Miro1 Cause Alterations of ER-Mitochondria Contact Sites in Fibroblasts from Parkinson's Disease Patients.", Journal Of Clinical Medicine, 8 - (12) - [10.3390/jcm8122226](https://doi.org/10.3390/jcm8122226)
- **Johan Markdahl**, Johan Thunberg, **Jorge Goncalves**. "High-dimensional Kuramoto models on Stiefel manifolds synchronize complex networks almost globally", Automatica, 113 - [10.1016/j.automatica.2019.108736](https://doi.org/10.1016/j.automatica.2019.108736)
- Christina Lückel, Felix Picard, Hartmann Raifer, Lucia Campos Carrascosa, Anna Guralnik, Yajuan Zhang, Matthias Klein, Stefan Bittner, Falk Steffen, Sonja Moos, Federico Marini, Renee Gloury, Florian C. Kurschus, Ying-Yin Chao, Wilhelm Bertrams, Veronika Sexl, Bernd Schmeck, Lynn Bonetti, Melanie Grusdat, Michael Lohoff, Christina E. Zielinski, Frauke Zipp, Axel Kallies, **Dirk Brenner**, Michael Berger, Tobias Bopp, Björn Tackenberg, Magdalena Huber. "IL-17+ CD8+ T cell suppression by dimethyl fumarate associates with clinical response in multiple sclerosis.", Nature Communications, 10 - (1) - 5722, [10.1038/s41467-019-13731-z](https://doi.org/10.1038/s41467-019-13731-z)
- Jian-Wei Zhu, Ming-Ming Zou, Yi-Fei Li, Wen-Jin Chen, Ji-Chuan Liu, Hong Chen, Li-Pao Fang, Yan Zhang, Zhao-Tao Wang, Ji-Bo Chen, Wenhui Huang, Shen Li, Wei-Qiang Jia, Qin-Qin Wang, Xue-Chu Zhen, Chun-Feng Liu, Shao Li, Zhi-Cheng Xiao, Guo-Qiang Xu, **Jens C Schwamborn**, Melitta Schachner, Quan-Hong Ma, Ru-Xiang Xu. "Absence of TRIM32 Leads to Reduced GABAergic Interneuron Generation and Autism-like Behaviors in Mice via Suppressing mTOR Signaling.", Cerebral Cortex, 30 - (5) - 3240-3258, [10.1093/cercor/bhz306](https://doi.org/10.1093/cercor/bhz306)
- Daniel Henriques, Ricardo Moreira, **Jens Schwamborn**, Luis Pereira de Almeida, Liliana S Mendonca. "Successes and Hurdles in Stem Cells Application and Production for Brain Transplantation.", Frontiers In Neuroscience, 13 - 1194, [10.3389/fnins.2019.01194](https://doi.org/10.3389/fnins.2019.01194)
- Corinne Benakis, **Camille Martin-Gallausiaux**, **Jean-Pierre Trezzi**, Philip Melton, Arthur Liesz, **Paul Wilmes**. "The microbiome-gut-brain axis in acute and chronic brain diseases.", Current Opinion In Neurobiology, 61 - 1-9, [10.1016/j.conb.2019.11.009](https://doi.org/10.1016/j.conb.2019.11.009)
- **Guadalupe C Garcia**, Thomas M Bartol, Sebastien Phan, Eric A Bushong, Guy Perkins, Terrence J Sejnowski, Mark H Ellisman, **Alexander Skupin**. "Mitochondrial morphology provides a mechanism for energy buffering at synapses.", Scientific Reports, 9 - (1) - 18306, [10.1038/s41598-019-54159-1](https://doi.org/10.1038/s41598-019-54159-1)
- **Regina Becker**, **Pinar Alper**, **Valentin Groues**, Sandrine Munoz, **Yohan Jarosz**, **Jacek Lebioda**, **Kavita Rege**, **Christophe Trefois**, **Venkata Satagopam**, **Reinhard Schneider**. "DAISY: A Data Information System for accountability under the General Data Protection Regulation.", Gigascience, 8 - (12) - [10.1093/gigascience/gjz140](https://doi.org/10.1093/gigascience/gjz140)
- Komal Qureshi-Baig, Diana Kuhn, Elodie Viry, Vitaly I Pozdeev, Martine Schmitz, Fabien Rodriguez, Pit Ullmann, Eric Koncina, Martin Nurmik, Sonia Frasquilho, Petr V Nazarov, Nikolaus Zuegel, Marc Boulmont, Yervand Karapetyan, Laurent Antunes, Daniel Val, **Michel Mittelbronn**, Bassam Janji, Serge Haan, Elisabeth Letellier. "Hypoxia-induced autophagy drives colorectal cancer initiation and progression by activating the PRKC/PKC-EZR (ezrin) pathway.", Autophagy, 16 - (8) - 1436-1452, [10.1080/15548627.2019.1687213](https://doi.org/10.1080/15548627.2019.1687213)
- Roy Lardenoije, Janou A. Y. Roubroeks, Ehsan Pishva, Markus Leber, Holger Wagner, Artemis Iatrou, Adam R. Smith, Rebecca G. Smith, Lars M. T. Eijssen, Luca Kleineidam, Amit Kawalia, Per Hoffmann, Tobias Luck, Steffi Riedel-Heller, Frank Jessen, Wolfgang Maier, Michael Wagner, René Hurlemann, Gunter Kenis, **Muhammad Ali**, **Antonio del Sol**, Diego Mastroeni, Elaine Delvaux, Paul D. Coleman, Jonathan Mill, Bart P. F. Rutten, Katie Lunnon, Alfredo Ramirez, Daniël L. A. van den Hove. "Alzheimer's disease-associated (hydroxy)methylomic changes in the brain and blood.", Clinical Epigenetics, 11 - (1) - 164, [10.1186/s13148-019-0755-5](https://doi.org/10.1186/s13148-019-0755-5)
- Raju Prasad Sharma, Vikas Kumar, Marta Schuhmacher, **Alexey Kolodkin**, Hans V. Westerhoff. "Development and evaluation of a harmonized whole body physiologically based pharmacokinetic (PBPK) model for flutamide in rats and its extrapolation to humans", Environmental Research, 182 - 108948, [10.1016/j.envres.2019.108948](https://doi.org/10.1016/j.envres.2019.108948)
- **Armin Rauschenberger**, Iuliana Cioc■nea-Teodorescu, Marianne A. Jonker, Renée X. Menezes, Mark A. van de Wiel. "Sparse classification with paired covariates", Advances In Data Analysis And Classification, 14 - (3) - 571-588, [10.1007/s11634-019-00375-6](https://doi.org/10.1007/s11634-019-00375-6)
- **Johannes Hertel**, Amy C Harms, **Almut Heinken**, **Federico Baldini**, **Cyrille C Thinnis**, **Enrico Glaab**, **Daniel A Vasco**, Maik Pietzner, Isobel D Stewart, Nicholas J Wareham, Claudia Langenberg, Claudia Trenkwald, **Rejko Kruger**, Thomas Hankemeier, **Ronan M T Fleming**, Brit Mollenhauer, **Ines Thiele**. "Integrated Analyses of Microbiome and Longitudinal Metabolome Data Reveal Microbial-Host Interactions on Sulfur Metabolism in Parkinson's Disease.", Cell Reports, 29 - (7) - 1767-1777.e8, [10.1016/j.celrep.2019.10.035](https://doi.org/10.1016/j.celrep.2019.10.035)
- Anne K Braczynski, David Capper, David T W Jones, Jens Schittenhelm, Damian Stichel, Andreas von Deimling, Patrick N Harter, **Michel Mittelbronn**. "High density DNA methylation array is a reliable alternative for PCR-based analysis of the MGMT promoter methylation status in glioblastoma.", Pathology Research And Practice, 216 - (1) - 152728, [10.1016/j.prp.2019.152728](https://doi.org/10.1016/j.prp.2019.152728)
- **Janine A. Simons**, Michel Vaillant, **Geraldine Hipp**, **Lukas Pavelka**, **Lara Stute**, **Claire Pauly**, **Rejko Krüger**, **NCER-PD Consortium**. "Multilingual Validation of the First French Version of Munich Dysphagia Test—Parkinson's Disease (MDT-PD) in the Luxembourg Parkinson's Study.", Frontiers In Neurology, 10 - 1180, [10.3389/fneur.2019.01180](https://doi.org/10.3389/fneur.2019.01180)
- Claudia Baumann, Julia Tichy, Jan Hendrik Schaefer, Joachim P Steinbach, **Michel Mittelbronn**, Marlies Wagner, Christian Foerch. "Delay in diagnosing patients with right-sided glioblastoma induced by hemispheric-specific clinical presentation.", Journal Of Neuro-Oncology, 146 - (1) - 63-69, [10.1007/s11060-019-03335-4](https://doi.org/10.1007/s11060-019-03335-4)

- **Srikanth Ravichandran, Andras Hartmann, Antonio Del Sol.** "SigHotSpotter: scRNA-seq-based computational tool to control cell subpopulation phenotypes for cellular rejuvenation strategies.", *Bioinformatics*, 36 - (6) - 1963-5, [10.1093/bioinformatics/btz827](https://doi.org/10.1093/bioinformatics/btz827)
- Ruben Dries, Agata Stryjewska, Kathleen Coddens, **Satoshi Okawa**, Tineke Notelaers, Judith Birkhoff, Mike Dekker, Catherine M Verfaillie, **Antonio Del Sol**, Eskeatnaf Mulugeta, Andrea Conidi, Frank G Grosveld, Danny Huylebroeck. "Integrative and perturbation based analysis of the transcriptional dynamics of TGFbeta/BMP system components in transition from embryonic stem cells to neural progenitors.", *Stem Cells*, 38 - (2) - 202-217, [10.1002/stem.3111](https://doi.org/10.1002/stem.3111)
- Simon Bernatz, Elena I. Ilina, Kavi Devraj, Patrick N. Harter, Klaus Mueller, Sascha Kleber, Yannick Braun, Cornelia Penski, Christoph Renner, **Rashi Halder**, Lukas Jennewein, Christine Solbach, Frits Thorsen, Bernhard C. Pestalozzi, Axel Mischo, **Michel Mittelbronn**. "Impact of Docetaxel on blood-brain barrier function and formation of breast cancer brain metastases.", *Journal Of Experimental & Clinical Cancer Research* : Cr, 38 - (1) - 434, [10.1186/s13046-019-1427-1](https://doi.org/10.1186/s13046-019-1427-1)
- Ye Yuan, Xiuchuan Tang, Wei Zhou, Wei Pan, Xiuting Li, Hai-Tao Zhang, Han Ding, **Jorge Goncalves**. "Data driven discovery of cyber physical systems.", *Nature Communications*, 10 - (1) - 4894, [10.1038/s41467-019-12490-1](https://doi.org/10.1038/s41467-019-12490-1)
- Vittorio Albergamo, Beate I. Escher, **Emma L. Schymanski**, Rick Helmus, Milou M.L. Dingemans, Emile R. Cornelissen, Michiel H.S. Kraak, Juliane Hollender, Pim De Voegt. "Evaluation of reverse osmosis drinking water treatment of riverbank filtrate using bioanalytical tools and non-target screening", *Environmental Science-Water Research & Technology*, 6 - (1) - 103-116, [10.1039/c9ew00741e](https://doi.org/10.1039/c9ew00741e)
- Frederic Brosseron, Carl-Christian Kolbe, Francesco Santarelli, Stephanie Carvalho, Anna Antonell, Sergio Castro-Gomez, Pawel Tacik, **Aishwarya Alex Namasivayam**, Graziella Mangone, **Reinhard Schneider**, Eicke Latz, Ullrich Wullner, Per Svenningsson, Raquel Sanchez-Valle, Jose Luis Molinuevo, Jean-Christophe Corvol, Michael T Heneka, AETIONOMY study group. "Multicenter Alzheimer's and Parkinson's disease immune biomarker verification study.", *Alzheimers & Dementia*, 16 - (2) - 292-304, [10.1016/j.jalz.2019.07.018](https://doi.org/10.1016/j.jalz.2019.07.018)
- Andrea Cossarizza, Hyun-Dong Chang, Andreas Radbruch, Andreas Acs, Dieter Adam, Sabine Adam-Klages, William W Agace, Nima Aghaeeepour, Mubeccel Akdis, Matthieu Allez, Larissa Nogueira Almeida, Giorgia Alvisi, Graham Anderson, Immanuel Andra, Francesco Annunziato, Achille Anselmo, Petra Bacher, Cosima T Baldari, Sudipto Bari, Vincenzo Barnaba, Joana Barros-Martins, Luca Battistini, Wolfgang Bauer, Sabine Baumgart, Nicole Baumgarth, Dirk Baumjohann, Bianka Baying, Mary Bebawy, Burkhard Becher, Wolfgang Beisker, Vladimir Benes, Rudi Beyaert, Alfonso Blanco, Dominic A Boardman, Christian Bogdan, Jessica G Borger, Giovanna Borsellino, Philip E Boulais, Jolene A Bradford, **Dirk Brenner**, Ryan R Brinkman, Anna E S Brooks, Dirk H Busch, Martin Buscher, Timothy P Bushnell, Federica Calzetti, Garth Cameron, Ilenia Cammarata, Xuetao Cao, Susanna L Cardell, Stefano Casola, Marco A Cassatella, Andrea Cavani, Antonio Celada, Lucienne Chatenoud, Pratip K Chattopadhyay, Sue Chow, Eleni Christakou, Luka Cicin-Sain, Mario Clerici, Federico S Colombo, Laura Cook, Anne Cooke, Andrea M Cooper, Alexandra J Corbett, Antonio Cosma, Lorenzo Cosmi, Pierre G Coulie, Ana Cumano, Ljiljana Cvetkovic, Van Duc Dang, Chantip Dang-Heine, Martin S Davey, Derek Davies, Sara De Biasi, Genny Del Zotto, Gelo Victoriano Dela Cruz, Michael Delacher, Silvia Della Bella, Paolo Dellabona, Gunnur Deniz, Mark Dessing, James P Di Santo, Andreas Diefenbach, Francesco Dieli, Andreas Dolf, Thomas Dörner, Regine J Dress, Diana Dudziak, Michael Dustin, Charles-Antoine Dutertre, Friederike Ebner, Sidonia B G Eckle, Matthias Edinger, Pascale Eede, Gotz R A Ehrhardt, Marcus Eich, Pablo Engel, Britta Engelhardt, Anna Erdei, Charlotte Esser, Bart Everts, Maximilien Evrard, Christine S Falk, Todd A Fehniger, Mar Felipe-Benavent, Helen Ferry, Markus Feuerer, Andrew Filby, Kata Filkor, Simon Fillatreau, Marie Follo, Irmgard Forster, John Foster, Gemma A Foulds, Britta Frehse, Paul S Frenette, Stefan Frischbutter, Wolfgang Fritzsche, David W Galbraith, Anastasia Gangaev, Natalio Garbi, Brice Gaudilliere, Ricardo T Gazzinelli, Jens Geginat, Wilhelm Gerner, Nicholas A Gherardin, Kamran Ghoreschi, Lara Gibellini, Florent Ginhoux, Keisuke Goda, Dale I Godfrey, Christoph Goettlinger, Jose M Gonzalez-Navajas, Carl S Goodyear, Andrea Gori, Jane L Grogan, Daryl Grummitt, Andreas Grutzkau, Claudia Haftmann, Jonas Hahn, Hamida Hammad, Gunter Hammerling, Leo Hansmann, Goran Hansson, Christopher M Harpur, Susanne Hartmann, Andrea Hauser, Anja E Hauser, David L Haviland, David Hedley, Daniela C Hernandez, Guadalupe Herrera, Martin Herrmann, Christoph Hess, Thomas Hofer, Petra Hoffmann, Kristin Hogquist, Tristan Holland, Thomas Hollt, Rikard Holmdahl, Pleun Hombrink, Jessica P Houston, Bimba F Hoyer, Bo Huang, Fang-Ping Huang, Johanna E Huber, Jochen Huehn, Michael Hundemer, Christopher A Hunter, William Y K Hwang, Anna Iannone, Florian Ingelfinger, Sabine M Ivison, Hans-Martin Jack, Peter K Jani, Beatriz Javega, Stipan Jonjic, Toralf Kaiser, Tomas Kalina, Thomas Kamradt, Stefan H E Kaufmann, Baerbel Keller, Steven L C Ketelaars, Ahad Khalilnezhad, Srijit Khan, Jan Kisielow, Paul Klenerman, Jasmin Knopf, Hui-Fern Koay, Katja Kobow, Jay K Kolls, Wan Ting Kong, Manfred Kopf, Thomas Korn, Katharina Kriegsmann, Hendy Kristyanto, Thomas Kroneis, Andreas Krueger, Jenny Kuhne, Christian Kukat, Desiree Kunkel, Heike Kunze-Schumacher, Tomohiro Kurosaki, Christian Kurts, Pia Kvistborg, Immanuel Kwok, Jonathan Landry, Olivier Lantz, Paola Lanuti, Francesca LaRosa, Agnes Lehuen, Salome LeibundGut-Landmann, Michael D Leipold, Leslie Y T Leung, Megan K Levings, Andrea C Lino, Francesco Liotta, Virginia Litwin, Yanling Liu, Hans-Gustaf Ljunggren, Michael Lohoff, Giovanna Lombardi, Lilly Lopez, Miguel Lopez-Botet, Amy E Lovett-Racke, Erik Lubberts, Herve Luche, Burkhard Ludewig, Enrico Lugli, Sebastian Lunemann, Holden T Maecker, Laura Maggi, Orla Maguire, Florian Mair, Kerstin H Mair, Alberto Mantovani, Rudolf A Manz, Aaron J Marshall, Alicia Martinez-Romero, Gloria Martus, Ivana Marventano, Wlodzimierz Maslinski, Giuseppe Matarese, Anna Vittoria Mattioli, Christian Maueroeder, Alessio Mazzoni, James McCluskey, Mairi McGrath, Helen M McGuire, Iain B McInnes, Henrik E Mei, Fritz Melchers, Susanne Melzer, Dirk Mielenz, Stephen D Miller, Kingston H G Mills, Hans Minderman, Jenny Mjosberg, Jonni Moore, Barry Moran, Lorenzo Moretta, Tim R Mosmann, Susann Muller, Gabriele Multhoff, Luis Enrique Munoz, Christian Munz, Toshinori Nakayama, Milena Nasi, Katrin Neumann, Lai Guan Ng, Antonia Niedobitek, Sussan Nourshargh, Gabriel Nunez, Jose-Enrique O'Connor, Aaron Ochel, Anna Oja, Diana Ordonez, Alberto Orfao, Eva Orłowski-Oliver, Wenjun Ouyang, Annette Oxenius, Raghavendra Palankar, Isabel Panse, Kovit Pattanapanyasat, Malte Paulsen, Dinko Pavlinic, Livius Penter, Part Peterson, Christian Peth, Jordi Petriz, Federica Piancone, Winfried F Pickl, Silvia Piconese, Marcello Pinti, A Graham Pockley, Malgorzata Justyna Podolska, Zhiyong Poon, Katharina Pracht, Immo Prinz, Carlo E M Pucillo, Sally A Quataert, Linda Quatrini, Kylie M Quinn, Helena Radbruch, Tim R D J Radstake, Susann Rahmig, Hans-Peter Rahn, Bartek Rajwa, Gevitha Ravichandran, Yotam Raz, Jonathan A Rebhahn, Diether Recktenwald, Dorothea Reimer, Caetano Reis E Sousa, Ester B M Remmerswaal, Lisa Richter, Laura G Rico, Andy Riddell, Aja M Rieger, J Paul Robinson, Chiara Romagnani, Anna Rubartelli, Jurgen Ruland, Armin Saalmuller, Yvan Saeys, Takashi Saito, Shimon Sakaguchi, Francisco Sala-de-Oyanguren, Yvonne Samstag, Sharon Sanderson, Inga Sandrock, Angela Santoni, Ramon Bellmas Sanz, Marina Saresella, Catherine Sautes-Fridman, Birgit Sawitzki, Linda Schadt, Alexander Scheffold, Hans U Scherer, Matthias Schiemann, Frank A Schildberg, Esther Schimisky, Andreas Schlitzer, Josephine Schlosser, Stephan Schmid, Steffen Schmitt, Kilian Schober, Daniel Schraivogel, Wolfgang Schuh, Thomas Schuler, Reiner Schulte, Axel Ronald Schulz, Sebastian R Schulz, Cristiano Scotta, Daniel Scott-Algara, David P Sester, T Vincent Shankey, Bruno Silva-Santos, Anna Katharina Simon, Katarzyna M Sitnik, Silvano Sozzani, Daniel E Speiser, Josef Spidlen, Anders Stahlberg, Alan M Stall, Natalie Stanley, Regina Stark, Christina Stehle, Tobit Steinmetz, Hannes Stockinger, Yousuke Takahama, Kiyoshi Takeda, Leonard Tan, Attila Tarnok, Gisa Tiegs, Gergely Toldi, Julia Tornack, Elisabetta Traggiai, Mohamed Trebak, Timothy I M Tree, Joe Trotter, John Trowsdale, Maria Tsoumakidou, Henning Ulrich, Sophia Urbanczyk, Willem van de Veen, Maries van den Broek, Edwin van der Pol, Sofie Van Gassen, Gert Van Isterdael, Rene A W van Lier, Marc Veldhoen, Salvador Vento-Asturias, Paulo Vieira, David Voehringer, Hans-Dieter Volk, Anouk von Borstel, Konrad von Volkman, Ari Waisman, Rachael V Walker, Paul K Wallace, Sa A Wang, Xin M Wang, Michael D Ward, Kirsten A Ward-Hartstonge, Klaus Warnatz, Gary Warnes, Sarah Warth, Claudia Waskow, James V Watson, Carsten Watzl, Leonie Wegener, Thomas Weisenburger, Annika Wiedemann, Jurgen Wienands, Anneke Wilharm, Robert John Wilkinson, Gerald Willimsky, James B Wing, Rieke Winkelmann, Thomas H Winkler, Oliver F Wirz, Alicia Wong, Peter Wurst, Jennie H M Yang, Juhao Yang, Maria Yazdanbakhsh, Liping Yu, Alice Yue, Hanlin Zhang, Yi Zhao, Susanne Maria Ziegler, Christina Zielinski, Jakob Zimmermann,

- Arturo Zychlinsky. "Guidelines for the use of flow cytometry and cell sorting in immunological studies (second edition).", *European Journal Of Immunology*, 49 - (10) - 1457-973, [10.1002/eji.201970107](https://doi.org/10.1002/eji.201970107)
- Costin Leu, Remi Stevelink, Alexander W. Smith, Slavina B. Goleva, Masahiro Kanai, Lisa Ferguson, Ciaran Campbell, Yoichiro Kamatani, Yukinori Okada, Sanjay M. Sisodiya, Gianpiero L. Cavalleri, Bobby P.C. Koeleman, Holger Lerche, Lara Jehi, Lea K. Davis, Imad M. Najm, Aarno Palotie, Mark J. Daly, Robyn M. Busch, **Epi25 Consortium**, Dennis Lal. "Polygenic burden in focal and generalized epilepsies", *Brain*, 142 - (11) - 3473-3481, [10.1093/brain/awz292](https://doi.org/10.1093/brain/awz292)
  - Remi Stevelink, Faith Pangilinan, Floor E Jansen, Kees P J Braun, Anne M Molloy, Lawrence C Brody, Bobby P C Koeleman, **International League Against Epilepsy Consortium on Complex Epilepsies**. "Assessing the genetic association between vitamin B6 metabolism and genetic generalized epilepsy.", *Molecular Genetics And Metabolism Reports*, 21 - 100518, [10.1016/j.ymgmr.2019.100518](https://doi.org/10.1016/j.ymgmr.2019.100518)
  - PDBe-KB consortium. "PDBe-KB: a community-driven resource for structural and functional annotations.", *Nucleic Acids Research*, 48 - (D1) - D344-53, [10.1093/nar/gkz853](https://doi.org/10.1093/nar/gkz853)
  - Werner Brack, Selim Ait-Aissa, Thomas Backhaus, Sebastian Birk, Damià Barceló, Rob Burgess, Ian Cousins, Valeria Dulio, Beate I. Escher, Andreas Focks, Jos van Gils, Antoni Ginebreda, Daniel Hering, L. Mark Hewitt, Klára Hilscherová, Juliane Hollender, Henner Hollert, Marianne Köck, Andreas Kortenkamp, Miren López de Alda, Christin Müller, Leo Posthuma, Gerrit Schüürmann, **Emma Schymanski**, Helmut Segner, Frank Sleeuwaert, Jaroslav Slobodnik, Ivana Teodorovic, Gisela Umbuzeiro, Nick Voulvoulis, Annemarie van Wezel, Rolf Altenburger. "Strengthen the European collaborative environmental research to meet European policy goals for achieving a sustainable, non-toxic environment", *Environmental Sciences Europe*, 31 - (1) - [10.1186/s12302-019-0232-y](https://doi.org/10.1186/s12302-019-0232-y)
  - Jaroslav Slobodnik, Juliane Hollender, Tobias Schulze, **Emma L. Schymanski**, Werner Brack. "Establish data infrastructure to compile and exchange environmental screening data on a European scale", *Environmental Sciences Europe*, 31 - (1) - [10.1186/s12302-019-0237-6](https://doi.org/10.1186/s12302-019-0237-6)
  - Annika K Wefers, Damian Stichel, Daniel Schimpf, Roland Coras, Melanie Pages, Arnault Tauziede-Espariat, Pascale Varlet, Daniel Schwarz, Figen Soylemezoglu, Ute Pohl, Jose Pimentel, Jochen Meyer, Ekkehard Hewer, Anna Japp, Abhijit Joshi, David E Reuss, Annkathrin Reinhardt, Philipp Sievers, M Belen Casalini, Azadeh Ebrahimi, Kristin Huang, Christian Koelsche, Hu Liang Low, Oliinda Rebelo, Dina Marnoto, Albert J Becker, Ori Staszewski, **Michel Mittelbronn**, Martin Hasselblatt, Jens Schittenhelm, Edmund Cheesman, Ricardo Santos de Oliveira, Rosane Gomes P Queiroz, Elvis Terci Valera, Volkmar H Hans, Andrey Korshunov, Adriana Olar, Keith L Ligon, Stefan M Pfister, Zane Jaunmuktane, Sebastian Brandner, Ruth G Tatevossian, David W Ellison, Thomas S Jacques, Mrinalini Honavar, Eleonora Aronica, Maria Thom, Felix Sahm, Andreas von Deimling, David T W Jones, Ingmar Blumcke, David Capper. "Isomorphic diffuse glioma is a morphologically and molecularly distinct tumour entity with recurrent gene fusions of MYBL1 or MYB and a benign disease course.", *Acta Neuropathologica*, 139 - (1) - 193-209, [10.1007/s00401-019-02078-w](https://doi.org/10.1007/s00401-019-02078-w)
  - **Ursula Heins-Marroquin, Paul P Jung, Maria Lorena Cordero-Maldonado, Alexander D Crawford, Carole L Linster**. "Phenotypic assays in yeast and zebrafish reveal drugs that rescue ATP13A2 deficiency.", *Brain Communications*, 1 - (1) - fcz019, [10.1093/braincomms/fcz019](https://doi.org/10.1093/braincomms/fcz019)
  - Bo Sha, **Emma L Schymanski**, Christoph Ruttkies, Ian T Cousins, Zhanyun Wang. "Exploring open cheminformatics approaches for categorizing per- and polyfluoroalkyl substances (PFASs).", *Environmental Science-Processes & Impacts*, 21 - (11) - 1835-1851, [10.1039/c9em00321e](https://doi.org/10.1039/c9em00321e)
  - Jan Stanstrup, Corey D Broeckling, Rick Helmus, Nils Hoffmann, Ewy Mathe, Thomas Naake, Luca Nicolotti, Kristian Peters, Johannes Rainer, Reza M Salek, Tobias Schulze, **Emma L Schymanski**, Michael A Stravs, Etienne A Thevenot, Hendrik Treutler, Ralf J M Weber, Egon Willighagen, Michael Witting, Steffen Neumann. "The metaRbolomics Toolbox in Bioconductor and beyond.", *Metabolites*, 9 - (10) - [10.3390/metabo9100200](https://doi.org/10.3390/metabo9100200)
  - **Sarah Louise Nickels, Jonas Walter, Silvia Bolognin, Deborah Gérard, Christian Jaeger, Xiaobing Qing, Johan Tisserand, Javier Jarazo, Kathrin Hemmer, Amy Harms, Rashi Halder, Philippe Lucarelli, Emanuel Berger, Paul M.A. Antony, Enrico Glaab, Thomas Hankemeier, Christine Klein, Thomas Sauter, Lasse Sinkkonen, Jens Christian Schwamborn**. "Impaired serine metabolism complements LRRK2-G2019S pathogenicity in PD patients", *Parkinsonism & Related Disorders*, 67 - 48-55, [10.1016/j.parkreidis.2019.09.018](https://doi.org/10.1016/j.parkreidis.2019.09.018)
  - Oskar Hickl, **Anna Heintz-Buschart**, Anke Trautwein-Schult, Rajna Hercog, Peer Bork, **Paul Wilmes**, Dorte Becher. "Sample Preservation and Storage Significantly Impact Taxonomic and Functional Profiles in Metaproteomics Studies of the Human Gut Microbiome.", *Microorganisms*, 7 - (9) - [10.3390/microorganisms7090367](https://doi.org/10.3390/microorganisms7090367)
  - **P Kolber, R Kruger**. "Gene-environment interaction and Mendelian randomisation.", *Revue Neurologique*, 175 - (10) - 597-603, [10.1016/j.neurol.2019.04.010](https://doi.org/10.1016/j.neurol.2019.04.010)
  - Alexandre Mauroy, **Jorge Goncalves**. "Koopman-Based Lifting Techniques for Nonlinear Systems Identification", *Ieee Transactions On Automatic Control*, 65 - (6) - 2550-2565, [10.1109/TAC.2019.2941433](https://doi.org/10.1109/TAC.2019.2941433)
  - Sinéad B. Heavin, **Mark McCormack**, Stefan Wolking, Lisa Slattery, Nicole Walley, Andreja Avbersek, Jan Novy, Saurabh R. Sinha, Rod Radtke, Colin Doherty, Pauls Auce, John Craig, Michael R. Johnson, Bobby P.C. Koeleman, **Roland Krause**, Wolfram S. Kunz, Anthony G. Marson, Terence J. O'Brien, Josemir W. Sander, Graeme J. Sills, Hreinn Stefansson, Pasquale Striano, Federico Zara, Chantal Depondt, Sanjay Sisodiya, David Goldstein, Holger Lerche, Gianpiero L. Cavalleri, Norman Delanty. "Genomic and clinical predictors of iacosamide response in refractory epilepsies", *Epilepsia Open*, 4 - (4) - 563-571, [10.1002/epi4.12360](https://doi.org/10.1002/epi4.12360)
  - Sarah Dethlefsen, **Christian Jager**, Jens Klockgether, Dietmar Schomburg, Burkhard Tummler. "Metabolite profiling of the cold adaptation of *Pseudomonas putida* KT2440 and cold-sensitive mutants.", *Environmental Microbiology Reports*, 11 - (6) - 777-783, [10.1111/1758-2229.12793](https://doi.org/10.1111/1758-2229.12793)
  - **Alvaro Gallego-Martinez**, Teresa Requena, Pablo Roman-Naranjo, **Patrick May**, Jose A Lopez-Escamez. "Enrichment of damaging missense variants in genes related with axonal guidance signalling in sporadic Meniere's disease.", *Journal Of Medical Genetics*, 57 - (2) - 82-88, [10.1136/jmedgenet-2019-106159](https://doi.org/10.1136/jmedgenet-2019-106159)
  - Mengmeng Zhao, Kun Song, Wenzhuo Hao, Lingyan Wang, Girish Patil, Qingmei Li, Lingling Xu, Fang Hua, Bishi Fu, **Jens C Schwamborn**, Martin E Dorf, Shitao Li. "Non-proteolytic ubiquitination of OTULIN regulates NF-kappaB signaling pathway.", *Journal Of Molecular Cell Biology*, 12 - (3) - 163-175, [10.1093/jmcb/mjz081](https://doi.org/10.1093/jmcb/mjz081)
  - Katri Silvennoinen, **Nikola de Lange**, Sara Zagaglia, Simona Balestrini, **Ganna Androsova**, Merel Wassenaar, Pauls Auce, Andreja Avbersek, Felicitas Becker, Bianca Berghuis, Ellen Campbell, Antonietta Coppola, Ben Francis, Stefan Wolking, Gianpiero L Cavalleri, John Craig, Norman Delanty, Michael R Johnson, Bobby P C Koeleman, Wolfram S Kunz, Holger Lerche, Anthony G Marson, Terence J O'Brien, Josemir W Sander, Graeme J Sills, Pasquale Striano, Federico Zara, Job van der Palen, **Roland Krause**, Chantal Depondt, Sanjay M Sisodiya, EpiPGX Consortium. "Comparative effectiveness of antiepileptic drugs in juvenile myoclonic epilepsy.", *Epilepsia Open*, 4 - (3) - 420-430, [10.1002/epi4.12349](https://doi.org/10.1002/epi4.12349)
  - Sarvenaz Choobdar, Mehmet E. Ahsen, Jake Crawford, Mattia Tomasoni, Tao Fang, David Lamparter, Junyuan Lin, Benjamin Hescott, Xiaozhe Hu, Johnathan Mercer, Ted Natoli, Rajiv Narayan, **The DREAM Module Identification Challenge Consortium**, Aravind Subramanian, Jitao D. Zhang, Gustavo Stolovitzky, Zoltán Kutalik, Kasper Lage, Donna K. Slonim, Julio Saez-Rodriguez, Lenore J. Cowen, Sven Bergmann, Daniel Marbach. "Assessment of network module identification across complex diseases", *Nature Methods*, 16 - (9) - 843-852, [10.1038/s41592-019-0509-5](https://doi.org/10.1038/s41592-019-0509-5)
  - **Nathalie Poupin**, Marie Tremblay-Franco, Aurelien Amiel, Cecile Canlet, Didier Remond, Laurent Debrauwer, Dominique Dardevet, **Ines Thiele, Maïke K Aurich**, Fabien Jourdan, Isabelle Savary-Auzeloux, Sergio Polakof. "Arterio-venous metabolomics exploration reveals major changes across liver and intestine in the obese Yucatan minipig.", *Scientific Reports*, 9 - (1) - 12527, [10.1038/s41598-019-48997-2](https://doi.org/10.1038/s41598-019-48997-2)

- Gary Saunders, Michael Baudis, **Regina Becker**, Sergi Beltran, Christophe Beroud, Ewan Birney, Cath Brooksbank, Soren Brunak, Marc Van den Bulcke, Rachel Drysdale, Salvador Capella-Gutierrez, Paul Flicek, Francesco Florindi, Peter Goodhand, Ivo Gut, Jaap Heringa, Petr Holub, Jef Hooyberghs, Nick Juty, Thomas M Keane, Jan O Korbel, Ilkka Lappalainen, Brane Leskosek, Gert Matthijs, Michaela Th Mayrhofer, Andres Metspalu, Arcadi Navarro, Steven Newhouse, Tommi Nyronen, Angela Page, Bengt Persson, Aarno Palotie, Helen Parkinson, Jordi Rambla, David Salgado, Erik Steinfeld, Morris A Swertz, Alfonso Valencia, Susheel Varma, Niklas Blomberg, Serena Scollen. "Leveraging European infrastructures to access 1 million human genomes by 2022.", *Nature Reviews Genetics*, 20 - (11) - 693-701, [10.1038/s41576-019-0156-9](https://doi.org/10.1038/s41576-019-0156-9)
- Nour Eldeen Mahmoud Khalifa, Mohamed Hamed N. Taha, Aboul Ella Hassanien, **Ahmed Abdelmonem Hemedan**. "Deep bacteria: Robust deep learning data augmentation design for limited bacterial colony dataset", *International Journal Of Reasoning-Based Intelligent Systems*, 11 - (3) - 256-264, [10.1504/JRIS.2019.102610](https://doi.org/10.1504/JRIS.2019.102610)
- Yuan Zhuang, Haifeng C Xu, Prashant V Shinde, Jens Warfsmann, Jelena Vasilevska, Balamurugan Sundaram, Kristina Behnke, Jun Huang, Jessica I Hoell, Arndt Borkhardt, Klaus Pfeffer, Mohamed S Taha, Diran Herebian, Ertan Mayatepek, **Dirk Brenner**, Mohammad Reza Ahmadian, Verena Keitel, Dagmar Wiecek, Dieter Haussinger, Aleksandra A Pandya, Karl S Lang, Philipp A Lang. "Fragile X mental retardation protein protects against tumour necrosis factor-mediated cell death and liver injury.", *Gut*, 69 - (1) - 133-45, [10.1136/gutjnl-2019-318215](https://doi.org/10.1136/gutjnl-2019-318215)
- Ilse M.J. Kant, Henri J.M.M. Mutsaerts, Simone J.T. van Montfort, Myriam G. Jaarsma-Coes, Theodoor D. Witkamp, Georg Winterer, Claudia D. Spies, Jeroen Hendrikse, Arjen J.C. Slooter, Jeroen de Bresser, **BioCog Consortium**. "The association between frailty and MRI features of cerebral small vessel disease", *Scientific Reports*, 9 - (1) - [10.1038/s41598-019-47731-2](https://doi.org/10.1038/s41598-019-47731-2)
- **Epi25 Collaborative**. "Ultra-Rare Genetic Variation in the Epilepsies: A Whole-Exome Sequencing Study of 17,606 Individuals.", *American Journal Of Human Genetics*, 105 - (2) - 267-282, [10.1016/j.ajhg.2019.05.020](https://doi.org/10.1016/j.ajhg.2019.05.020)
- Nesli-Ece Sen, Julia Canet-Pons, Melanie V Halbach, Aleksandar Arsovic, Ulrich Pilatus, Woon-Hyung Chae, Zeynep-Ece Kaya, Kay Seidel, Ewa Rollmann, **Michel Mittelbronn**, David Meierhofer, Chris I De Zeeuw, Laurens W J Bosman, Suzana Gispert, Georg Auburger. "Generation of an Atxn2-CAG100 knock-in mouse reveals N-acetylaspartate production deficit due to early Nat8l dysregulation.", *Neurobiology Of Disease*, 132 - 104559, [10.1016/j.nbd.2019.104559](https://doi.org/10.1016/j.nbd.2019.104559)
- Lisa-Marie Niestroj, **Patrick May**, Mykyta Artomov, Katja Kobow, Roland Coras, Eduardo Perez-Palma, Janine Altmuller, Holger Thiele, Peter Nurnberg, Costin Leu, Aarno Palotie, Mark J Daly, Karl Martin Klein, Rudi Beschorner, Yvonne G Weber, Ingmar Blumcke, Dennis Lal. "Assessment of genetic variant burden in epilepsy-associated brain lesions.", *European Journal Of Human Genetics*, 27 - (11) - 1738-1744, [10.1038/s41431-019-0484-4](https://doi.org/10.1038/s41431-019-0484-4)
- Luke W. Bonham, Natasha Z.R. Steele, Celeste M. Karch, Iris Broce, Ethan G. Geier, Natalie L. Wen, Parastoo Momeni, John Hardy, Zachary A. Miller, Maria Luisa Gorno-Tempini, Christopher P. Hess, Patrick Lewis, Bruce L. Miller, William W. Seeley, Claudia Manzoni, Rahul S. Desikan, Sergio E. Baranzini, Raffaele Ferrari, Jennifer S. Yokoyama, **International FTD-Genomics Consortium (IFGC)**. "Genetic variation across RNA metabolism and cell death gene networks is implicated in the semantic variant of primary progressive aphasia", *Scientific Reports*, 9 - (1) - [10.1038/s41598-019-46415-1](https://doi.org/10.1038/s41598-019-46415-1)
- T Yvanka de Soysa, Sanjeev S Ranade, **Satoshi Okawa, Srikanth Ravichandran**, Yu Huang, Hazel T Salunga, Amelia Schricker, **Antonio Del Sol**, Casey A Gifford, Deepak Srivastava. "Single-cell analysis of cardiogenesis reveals basis for organ-level developmental defects.", *Nature*, 572 - (7767) - 120-4, [10.1038/s41586-019-1414-x](https://doi.org/10.1038/s41586-019-1414-x)
- Liziane Cristina Campos Brusamarello-Santos, Dayane Alberton, Glaucio Valdameri, Doumit Camilios-Neto, Rafael Covre, Katia de Paiva Lopes, Michelle Zibetti Tadra-Sfeir, Helisson Faoro, Rose Adele Monteiro, **Adriano Barbosa-Silva**, William John Broughton, Fabio Oliveira Pedrosa, Roseli Wasseem, Emanuel Maltempi de Souza. "Modulation of defence and iron homeostasis genes in rice roots by the diazotrophic endophyte *Herbaspirillum seropedicae*.", *Scientific Reports*, 9 - (1) - 10573, [10.1038/s41598-019-45866-w](https://doi.org/10.1038/s41598-019-45866-w)
- **Dajana Grossmann, Clara Berenguer-Escuder, Marie Estelle Bellet**, David Scheibner, **Jill Bohler, Francois Massart**, Doron Rapaport, **Alexander Skupin, Aymeric Fouquier d'Herouel**, Manu Sharma, **Jenny Ghelfi**, Aleksandar Rakovic, Peter Lichtner, **Paul Antony, Enrico Glaab, Patrick May**, Kai Stefan Dimmer, Julia Catherine Fitzgerald, **Anne Gruenewald, Rejko Kruger**. "Mutations in RHOT1 disrupt ER-mitochondria contact sites interfering with calcium homeostasis and mitochondrial dynamics in Parkinson's disease.", *Antioxidants & Redox Signaling*, 31 - (16) - 1213-34, [10.1089/ars.2018.7718](https://doi.org/10.1089/ars.2018.7718)
- **Emma L Schymanski**, Nancy C Baker, Antony J Williams, **Randolph R Singh, Jean-Pierre Trezzi, Paul Wilmes, Pierre L Kolber, Rejko Kruger, Nicole Paczia, Carole L Linster, Rudi Balling**. "Connecting environmental exposure and neurodegeneration using cheminformatics and high resolution mass spectrometry: potential and challenges.", *Environmental Science-Processes & Impacts*, 21 - (9) - 1426-1445, [10.1039/c9em00068b](https://doi.org/10.1039/c9em00068b)
- **David Hoksza, Piotr Gawron, Marek Ostaszewski**, Jan Hausenauer, **Reinhard Schneider**. "Closing the gap between formats for storing layout information in systems biology.", *Briefings In Bioinformatics*, 21 - (4) - 1249-60, [10.1093/bib/bbz067](https://doi.org/10.1093/bib/bbz067)
- **Dmitry A Ravcheev, Lubin Moussu, Semra Smajic, Ines Thiele**. "Comparative Genomic Analysis Reveals Novel Microcompartment-Associated Metabolic Pathways in the Human Gut Microbiome.", *Frontiers In Genetics*, 10 - (JUL) - 636, [10.3389/fgene.2019.00636](https://doi.org/10.3389/fgene.2019.00636)
- Sonja Schötterl, Jennifer T. Miemietz, Elena I. Iliina, Naita M. Wirsik, Ingrid Ehrlich, Andrea Gall, Stephan M. Huber, Hans Lentzen, **Michel Mittelbronn**, Ulrike Naumann. "Mistletoe-based drugs work in synergy with radio-chemotherapy in the treatment of glioma in vitro and in vivo in glioblastoma bearing mice", *Evidence-Based Complementary And Alternative Medicine*, 2019 - 1376140, [10.1155/2019/1376140](https://doi.org/10.1155/2019/1376140)
- **Jonathan Arias-Fuenzalida, Javier Jarazo, Jonas Walter, Gemma Gomez-Giro, Julia I Forster, Rejko Krueger, Paul M A Antony, Jens C Schwamborn**. "Automated high-throughput high-content autophagy and mitophagy analysis platform.", *Scientific Reports*, 9 - (1) - 9455, [10.1038/s41598-019-45917-2](https://doi.org/10.1038/s41598-019-45917-2)
- **Marouen Ben Guebila, Ines Thiele**. "Predicting gastrointestinal drug effects using contextualized metabolic models.", *Plos Computational Biology*, 15 - (6) - e1007100, [10.1371/journal.pcbi.1007100](https://doi.org/10.1371/journal.pcbi.1007100)
- **Peter Banda**, John Caughman, Martin Cenek, Christof Teuscher. "Shift-symmetric configurations in two-dimensional cellular automata: Irreversibility, insolvability, and enumeration.", *Chaos*, 29 - (6) - 063120, [10.1063/1.5089889](https://doi.org/10.1063/1.5089889)
- Peter Riederer, Daniela Berg, Nicolas Casadei, Fubo Cheng, Joseph Classen, Christian Dresel, Wolfgang Jost, **Rejko Kruger**, Thomas Muller, Heinz Reichmann, Olaf Riess, Alexander Storch, Sabrina Strobel, Thilo van Eimeren, Hans-Ullrich Volker, Jurgen Winkler, Konstanze F Winklhofer, Ullrich Wullner, Friederike Zunke, Camelia-Maria Monoranu. "alpha-Synuclein in Parkinson's disease: causal or bystander?", *Journal Of Neural Transmission*, 126 - (7) - 815-840, [10.1007/s00702-019-02025-9](https://doi.org/10.1007/s00702-019-02025-9)
- Christoph Ruttkies, **Emma L Schymanski**, Nadine Strehmel, Juliane Hollender, Steffen Neumann, Antony J Williams, Martin Krauss. "Supporting non-target identification by adding hydrogen deuterium exchange MS/MS capabilities to MetFrag.", *Analytical And Bioanalytical Chemistry*, 411 - (19) - 4683-700, [10.1007/s00216-019-01885-0](https://doi.org/10.1007/s00216-019-01885-0)
- **Masoud Ahookhosh**, Francisco J. Aragón Artacho, **Ronan M.T. Fleming, Phan T. Vuong**. "Local convergence of the Levenberg–Marquardt method under Hölder metric subregularity", *Advances In Computational Mathematics*, 45 - (5-6) - 2771-2806, [10.1007/s10444-019-09708-7](https://doi.org/10.1007/s10444-019-09708-7)

- Adrien Rougny, Vasundra Toure, Stuart Moodie, Irina Balaur, Tobias Czauderna, Hanna Borlinghaus, Ugur Dogrusoz, **Alexander Mazein**, Andreas Drager, Michael L Blinov, Alice Villeger, Robin Haw, Emek Demir, Huaiyu Mi, Anatoly Sorokin, Falk Schreiber, Augustin Luna. "Systems Biology Graphical Notation: Process Description language Level 1 Version 2.0.", *Journal Of Integrative Bioinformatics*, 16 - (2) - [10.1515/jib-2019-0022](https://doi.org/10.1515/jib-2019-0022)
- Enrico Glaab, Paul Antony, Sandra Köglsberger, Julia Ilona Forster, Maria Lorena Cordero-Maldonado, Alexander Crawford, Pierre Garcia, Manuel Buttini**. "Transcriptome profiling data reveals ubiquitin-specific peptidase 9 knockdown effects", *Data In Brief*, 25 - 104130, [10.1016/j.dib.2019.104130](https://doi.org/10.1016/j.dib.2019.104130)
- Patricia Buendia, Ray M Bradley, Thomas J Taylor, **Emma L Schymanski**, Gary J Patti, Mansur R Kabuka. "Ontology-based metabolomics data integration with quality control.", *Bioanalysis*, 11 - (12) - 1139-1155, [10.4155/bio-2018-0303](https://doi.org/10.4155/bio-2018-0303)
- Vittorio Albergamo, Jennifer E Schollée, **Emma L Schymanski**, Rick Helmus, Harrie Timmer, Juliane Hollender, Pim de Voogt. "Nontarget Screening Reveals Time Trends of Polar Micropollutants in a Riverbank Filtration System.", *Environmental Science & Technology*, 53 - (13) - 7584-7594, [10.1021/acs.est.9b01750](https://doi.org/10.1021/acs.est.9b01750)
- Zhi Zhang, Paul P Jung, Valentin Groues, Patrick May, Carole Linster, Enrico Glaab**. "BSA4Yeast: Web-based quantitative trait locus linkage analysis and bulk segregant analysis of yeast sequencing data.", *Gigascience*, 8 - (6) - [10.1093/gigascience/giz060](https://doi.org/10.1093/gigascience/giz060)
- Mohammed Abd Elaziz, **Ahmed Abdelmonem Hemedan, Marek Ostaszewski, Reinhard Schneider**, Songfeng Lu. "Optimization ACE inhibition activity in hypertension based on random vector functional link and sine-cosine algorithm", *Chemometrics And Intelligent Laboratory Systems*, 190 - 69-77, [10.1016/j.chemolab.2019.05.009](https://doi.org/10.1016/j.chemolab.2019.05.009)
- Lukas Jendele, Radoslav Krivak, Petr Skoda, Marian Novotny, **David Hoksza**. "PrankWeb: a web server for ligand binding site prediction and visualization.", *Nucleic Acids Research*, 47 - (W1) - W345-W349, [10.1093/nar/gkz424](https://doi.org/10.1093/nar/gkz424)
- Eduardo Perez-Palma, Marie Gramm, Peter Nurnberg, **Patrick May**, Dennis Lal. "Simple ClinVar: an interactive web server to explore and retrieve gene and disease variants aggregated in ClinVar database.", *Nucleic Acids Research*, 47 - (W1) - W99-W105, [10.1093/nar/gkz411](https://doi.org/10.1093/nar/gkz411)
- Ingo Helbig, Tania Lopez-Hernandez, Oded Shor, Peter Galer, Shiva Ganesan, Manuela Pendziwiat, Annika Rademacher, Colin A Ellis, Nadja Humpfer, Niklas Schwarz, Simone Seiffert, Joseph Peeden, Joseph Shen, Katalin Sterbova, Trine Bjorg Hammer, Rikke S Moller, Deepali N Shinde, Sha Tang, Lacey Smith, Annapurna Poduri, **Roland Krause**, Felix Benninger, Katherine L Helbig, Volker Haucke, Yvonne G Weber, **EuroEPINOMICS-RES Consortium, GRIN Consortium**. "A Recurrent Missense Variant in AP2M1 Impairs Clathrin-Mediated Endocytosis and Causes Developmental and Epileptic Encephalopathy.", *American Journal Of Human Genetics*, 104 - (6) - 1060-1072, [10.1016/j.ajhg.2019.04.001](https://doi.org/10.1016/j.ajhg.2019.04.001)
- Almut Heinken, Dmitry A Ravcheev, **Federico Baldini, Laurent Heirendt**, Ronan M T Fleming, **Ines Thiele**. "Systematic assessment of secondary bile acid metabolism in gut microbes reveals distinct metabolic capabilities in inflammatory bowel disease.", *Microbiome*, 7 - (1) - 75, [10.1186/s40168-019-0689-3](https://doi.org/10.1186/s40168-019-0689-3)
- Linwei Wu, Daliang Ning, Bing Zhang, Yong Li, Ping Zhang, Xiaoyu Shan, Qiuting Zhang, Mathew Brown, Zhenxin Li, Joy D. Van Nostrand, Fangqiong Ling, Najia Xiao, Ya Zhang, Julia Vierheilig, George F. Wells, Yunfeng Yang, Ye Deng, Qichao Tu, Aijie Wang, **Global Water Microbiome Consortium**, Tong Zhang, Zhili He, Jurg Keller, Per H. Nielsen, Pedro J.J. Alvarez, Craig S. Criddle, Michael Wagner, James M. Tiedje, Qiang He, Thomas P. Curtis, David A. Stahl, Lisa Alvarez-Cohen, Bruce E. Rittmann, Xianghua Wen, Jizhong Zhou. "Global diversity and biogeography of bacterial communities in wastewater treatment plants", *Nature Microbiology*, 4 - (7) - 1183-1195, [10.1038/s41564-019-0426-5](https://doi.org/10.1038/s41564-019-0426-5)
- Chencheng Zhang, Seung-Goo Kim, Dianyou Li, Yingying Zhang, Yan Li, **Andreas Husch, Frank Hertel**, Fuhua Yan, Valerie Voon, Bomin Sun. "Habenula deep brain stimulation for refractory bipolar disorder.", *Brain Stimulation*, 12 - (5) - 1298-1300, [10.1016/j.brs.2019.05.010](https://doi.org/10.1016/j.brs.2019.05.010)
- Lisa Schlicker, Hanny M Boers, Christian-Alexander Dudek, Gang Zhao, Arnab Barua, **Jean-Pierre Trezzi**, Michael Meyer-Hermann, Doris M Jacobs, Karsten Hiller. "Postprandial Metabolic Effects of Fiber Mixes Revealed by in vivo Stable Isotope Labeling in Humans.", *Metabolites*, 9 - (5) - [10.3390/metabo9050091](https://doi.org/10.3390/metabo9050091)
- Katharina Filipski, Yannick Braun, Jenny Zinke, Bastian Roller, Peter Baumgarten, Marlies Wagner, Christian Senft, Pia S Zeiner, Michael W Ronellenfitsch, Joachim P Steinbach, Karl H Plate, Gilles Gasparoni, **Michel Mittelbronn**, David Capper, Patrick N Harter. "Lack of H3K27 trimethylation is associated with 1p/19q codeletion in diffuse gliomas.", *Acta Neuropathologica*, 138 - (2) - 331-4, [10.1007/s00401-019-02025-9](https://doi.org/10.1007/s00401-019-02025-9)
- Jeremy W. Linsley, Atmiyata Tripathi, Irina Epstein, Galina Schmunk, Elliot Mount, Matthew Campioni, Viral Oza, Mariya Barch, Ashkan Javaherian, Tomasz J. Nowakowski, **Siddharth Samsi**, Steven Finkbeiner. "Automated four-dimensional long term imaging enables single cell tracking within organotypic brain slices to study neurodevelopment and degeneration", *Communications Biology*, 2 - (1) - 155, [10.1038/s42003-019-0411-9](https://doi.org/10.1038/s42003-019-0411-9)
- Kacy Greenhalgh, Javier Ramiro-Garcia, Almut Heinken**, Pit Ullmann, Tamara Bintener, Maria Pires Pacheco, **Joanna Baginska, Pranjul Shah, Audrey Frachet, Rashi Halder, Joëlle V. Fritz**, Thomas Sauter, **Ines Thiele**, Serge Haan, Elisabeth Letellier, **Paul Wilmes**. "Integrated In Vitro and In Silico Modeling Delineates the Molecular Effects of a Synbiotic Regimen on Colorectal-Cancer-Derived Cells", *Cell Reports*, 27 - (5) - 1621-1632.e9, [10.1016/j.celrep.2019.04.001](https://doi.org/10.1016/j.celrep.2019.04.001)
- Xiuting Li, Liang Li, **Zuogong Yue**, Xiaoquan Tang, Henning U Voss, Jurgen Kurths, Ye Yuan. "Sparse learning of partial differential equations with structured dictionary matrix.", *Chaos*, 29 - (4) - 043130, [10.1063/1.5054708](https://doi.org/10.1063/1.5054708)
- Juanjiangmeng Du, Monica Sudarsanam, Eduardo Perez-Palma, Andrea Ganna, Laurent Francioli, Sumaiya Iqbal, Lisa-Marie Niestroj, Costin Leu, Ben Weisburd, Tim Poterba, Peter Nurnberg, Mark J Daly, Aarno Palotie, **Patrick May**, Dennis Lal. "Variant Score Ranker-a web application for intuitive missense variant prioritization.", *Bioinformatics*, 35 - (21) - 4478-4479, [10.1093/bioinformatics/btz252](https://doi.org/10.1093/bioinformatics/btz252)
- David Hoksza, Piotr Gawron, Marek Ostaszewski, Ewa Smula, Reinhard Schneider**. "MINERVA API and plugins: opening molecular network analysis and visualization to the community.", *Bioinformatics*, 35 - (21) - 4496-8, [10.1093/bioinformatics/btz286](https://doi.org/10.1093/bioinformatics/btz286)
- Jan Jelínek, **David Hoksza**, Jan Hajic, Jan Pesek, Jan Drozen, Tomas Hladik, Michal Klimpera, Jiri Vohradsky, Josef Panek. "rPredictorDB: a predictive database of individual secondary structures of RNAs and their formatted plots.", *Database-The Journal Of Biological Databases And Curation*, 2019 - (1) - [10.1093/database/baz047](https://doi.org/10.1093/database/baz047)
- Nicolas Sompairac, **Jennifer Modamio**, Emmanuel Barillot, **Ronan M.T. Fleming**, Andrei Zinoviyev, Inna Kuperstein. "Metabolic and signalling network maps integration: Application to cross-talk studies and omics data analysis in cancer", *Bmc Bioinformatics*, 20 - [10.1186/s12859-019-2682-z](https://doi.org/10.1186/s12859-019-2682-z)
- Anne Dirkse, Anna Golebiewska, Thomas Buder, Petr V Nazarov, Arnaud Muller, **Suresh Poovathingal**, Nicolaas H C Brons, Sonia Leite, Nicolas Sauvageot, Dzemjema Sarkisjan, Mathieu Seyfrid, Sabrina Fritah, Daniel Stieber, **Alessandro Michelucci, Frank Hertel**, Christel Herold-Mende, Francisco Azuaje, **Alexander Skupin**, Rolf Bjerkvig, Andreas Deutsch, Anja Voss-Bohme, Simone P Niclou. "Stem cell-associated heterogeneity in Glioblastoma results from intrinsic tumor plasticity shaped by the microenvironment.", *Nature Communications*, 10 - (1) - 1787, [10.1038/s41467-019-09853-z](https://doi.org/10.1038/s41467-019-09853-z)
- Luis Salamanca**, Naguib Mechawar, Keith K Murai, **Rudi Balling, David S Bouvier, Alexander Skupin**. "MIC-MAC: An automated pipeline for high-throughput characterization and classification of three-dimensional microglia morphologies in mouse and human postmortem brain samples.", *Glia*, 67 - (8) - 1496-509, [10.1002/glia.23623](https://doi.org/10.1002/glia.23623)



- Nikiforos A. Alygizakis, Peter Oswald, Nikolaos S. Thomaidis, **Emma L. Schymanski**, Reza Aalizadeh, Tobias Schulze, Martina Oswaldova, Jaroslav Slobodnik. "NORMAN digital sample freezing platform: A European virtual platform to exchange liquid chromatography high resolution-mass spectrometry data and screen suspects in "digitally frozen" environmental samples", *Trac-Trends In Analytical Chemistry*, 115 - 129-137, [10.1016/j.trac.2019.04.008](https://doi.org/10.1016/j.trac.2019.04.008)
- **Jonas Walter, Silvia Bolognin, Paul M A Antony, Sarah L Nickels, Suresh K Poovathingal, Luis Salamanca, Stefano Magni**, Rita Perfeito, Fredrik Hoel, **Xiaobing Qing, Javier Jarazo, Jonathan Arias-Fuenzalida, Tomasz Ignac, Anna S Monzel, Laura Gonzalez-Cano**, Luis Pereira de Almeida, **Alexander Skupin**, Karl J Tronstad, **Jens C Schwamborn**. "Neural Stem Cells of Parkinson's Disease Patients Exhibit Aberrant Mitochondrial Morphology and Functionality.", *Stem Cell Reports*, 12 - (5) - 878-89, [10.1016/j.stemcr.2019.03.004](https://doi.org/10.1016/j.stemcr.2019.03.004)
- Sacha Bohler, Julian Krauskopf, Almudena Espin-Perez, **Stephan Gebel**, Domenico Palli, Panu Rantakokko, Hannu Kiviranta, Soterios A Kyrtopoulos, **Rudi Balling**, Jos Kleinjans. "Genes associated with Parkinson's disease respond to increasing polychlorinated biphenyl levels in the blood of healthy females.", *Environmental Pollution*, 250 - 107-117, [10.1016/j.envpol.2019.04.005](https://doi.org/10.1016/j.envpol.2019.04.005)
- **Lisa M. Smits**, Lydia Reinhardt, Peter Reinhardt, Michael Glatza, **Anna S. Monzel**, Nancy Stanslowsky, Marcelo D. Rosato-Siri, Alessandra Zanon, **Paul M. Antony**, Jessica Bellmann, **Sarah M. Nicklas, Kathrin Hemmer, Xiaobing Qing, Emanuel Berger**, Norman Kalmbach, Marc Ehrlich, **Silvia Bolognin**, Andrew A. Hicks, Florian Wegner, Jared L. Sternecker, **Jens C. Schwamborn**. "Modeling Parkinson's disease in midbrain-like organoids.", *Npj Parkinsons Disease*, 5 - (1) - 5, [10.1038/s41531-019-0078-4](https://doi.org/10.1038/s41531-019-0078-4)
- **Gaia Zaffaroni, Satoshi Okawa**, Manuel Morales-Ruiz, **Antonio Del Sol**. "An integrative method to predict signalling perturbations for cellular transitions.", *Nucleic Acids Research*, 47 - (12) - e72, [10.1093/nar/gkz232](https://doi.org/10.1093/nar/gkz232)
- Petri Polonen, Juha Mehtonen, Jake Lin, Thomas Liuksiala, Sergei Hayrynen, Susanna Teppo, Artturi Makinen, Ashwini Kumar, Disha Malani, Virva Pohjolainen, Kimmo Porkka, Caroline A Heckman, **Patrick May**, Ville Hautamaki, Kirsi J Granberg, Olli Lohi, Matti Nykter, Merja Heinaniemi. "Hemap: An interactive online resource for characterizing molecular phenotypes across hematologic malignancies.", *Cancer Research*, 79 - (10) - 2466-2479, [10.1158/0008-5472.CAN-18-2970](https://doi.org/10.1158/0008-5472.CAN-18-2970)
- **Wei Gu**, Reha Yildirimman, Emmanuel Van der Stuyft, Denny Verbeeck, **Sascha Herzinger, Venkata Satagopam, Adriano Barbosa-Silva, Reinhard Schneider**, Bodo Lange, Hans Lehrach, Yike Guo, David Henderson, Anthony Rowe, IMI OncoTrack and the IMI eTRIKS consortia. "Data and knowledge management in translational research: implementation of the eTRIKS platform for the IMI OncoTrack consortium.", *Bmc Bioinformatics*, 20 - (1) - 164, [10.1186/s12859-019-2748-y](https://doi.org/10.1186/s12859-019-2748-y)
- Manfred Gerlach, Manu Sharma, Marcel Romanos, Klaus-Peter Lesch, Susanne Walitzka, H Annette Conzelmann, **Rejko Kruger**, Tobias J Renner. "Family-based association study on functional alpha-synuclein polymorphisms in attention-deficit/hyperactivity disorder.", *Attention Deficit And Hyperactivity Disorders*, 11 - (1) - 107-111, [10.1007/s12402-019-00286-8](https://doi.org/10.1007/s12402-019-00286-8)
- Florian Bernard, **Johan Thunberg, Jorge Goncalves**, Christian Theobalt. "Synchronisation of partial multi-matchings via non-negative factorisations", *Pattern Recognition*, 92 - 146-155, [10.1016/j.patcog.2019.03.021](https://doi.org/10.1016/j.patcog.2019.03.021)
- **Javier Jarazo, Xiaobing Qing, Jens C. Schwamborn**. "Guidelines for Fluorescent Guided Biallelic HDR Targeting Selection With PiggyBac System Removal for Gene Editing.", *Frontiers In Genetics*, 10 - (MAR) - 190, [10.3389/fgene.2019.00190](https://doi.org/10.3389/fgene.2019.00190)
- Benedikt Linder, Ulrike Weirauch, Alexander Ewe, Anja Uhmman, Volker Seifert, **Michel Mittelbronn**, Patrick N Harter, Achim Aigner, Donat Kogel. "Therapeutic Targeting of Stat3 Using Lipopolyplex Nanoparticle-Formulated siRNA in a Syngeneic Orthotopic Mouse Glioma Model.", *Cancers*, 11 - (3) - 333, [10.3390/cancers11030333](https://doi.org/10.3390/cancers11030333)
- Antoine Buetti-Dinh, Vanni Galli, Sören Bellenberg, Olga Ilie, **Malte Herold**, Stephan Christel, Mariia Boretska, Igor V. Pivkin, **Paul Wilmes**, Wolfgang Sand, Mario Vera, Mark Dopson. "Deep neural networks outperform human expert's capacity in characterizing bioleaching bacterial biofilm composition", *Biotechnology Reports*, 22 - e00321, [10.1016/j.btre.2019.e00321](https://doi.org/10.1016/j.btre.2019.e00321)
- **Satoshi Okawa, Antonio Del Sol**. "A general computational approach to predicting synergistic transcriptional cores that determine cell subpopulation identities.", *Nucleic Acids Research*, 47 - (7) - 3333-43, [10.1093/nar/gkz147](https://doi.org/10.1093/nar/gkz147)
- Georgios Kalamakis, Daniel Brune, **Srikanth Ravichandran**, Jan Bolz, Wenqiang Fan, Frederik Ziebell, Thomas Stiehl, Francisco Catala-Martinez, Janina Kupke, Sheng Zhao, Enric Llorens-Bobadilla, Katharina Bauer, Stefanie Limpert, Birgit Berger, Urs Christen, Peter Schmezer, Jan Philipp Mallm, Benedikt Berninger, Simon Anders, **Antonio Del Sol**, Anna Marciniak-Czochra, Ana Martin-Villalba. "Quiescence Modulates Stem Cell Maintenance and Regenerative Capacity in the Aging Brain.", *Cell*, 176 - (6) - 1407-1419.e14, [10.1016/j.cell.2019.01.040](https://doi.org/10.1016/j.cell.2019.01.040)
- **Laurent Heirendt, Sylvain Arreckx**, Thomas Pfau, Sebastian N Mendoza, Anne Richelle, **Almut Heinken, Hulda S Haraldsdottir, Jacek Wachowiak**, Sarah M Keating, **Vanja Vlasov, Stefania Magnusdottir**, Chiam Yu Ng, **German Preciat, Alise Zagare**, Siu H J Chan, **Maïke K Aurich, Catherine M Clancy, Jennifer Modamio**, John T Sauls, **Alberto Noronha**, Aarash Bordbar, Benjamin Cousins, **Diana C El Assal**, Luis V Valcarcel, Inigo Apaolaza, **Susan Ghaderi, Masoud Ahookhosh, Marouen Ben Guebila**, Andrejs Kostromins, Nicolas Sompairac, **Hoai M Le**, Ding Ma, Yuekai Sun, Lin Wang, James T Yurkovich, **Miguel A P Oliveira, Phan T Vuong, Lemmer P El Assal**, Inna Kuperstein, Andrei Zinoviyev, H Scott Hinton, William A Bryant, Francisco J Aragon Artacho, Francisco J Planes, Egils Stalidzans, Alejandro Maass, Santosh Vempala, Michael Hucka, Michael A Saunders, Costas D Maranas, Nathan E Lewis, Thomas Sauter, Bernhard O Palsson, **Ines Thiele, Ronan M T Fleming**. "Creation and analysis of biochemical constraint-based models using the COBRA Toolbox v.3.0.", *Nature Protocols*, 14 - (3) - 639-702, [10.1038/s41596-018-0098-2](https://doi.org/10.1038/s41596-018-0098-2)
- Rolf Altenburger, Werner Brack, Robert M. Burgess, Wibke Busch, Beate I. Escher, Andreas Focks, L. Mark Hewitt, Bo N. Jacobsen, Miren López de Alda, Selim Ait-Aissa, Thomas Backhaus, Antoni Ginebreda, Klára Hilscherová, Juliane Hollender, Henner Hollert, Peta A. Neale, Tobias Schulze, **Emma L. Schymanski**, Ivana Teodorovic, Andrew J. Tindall, Gisela de Aragão Umbuzeiro, Branislav Vrana, Bozo Zorja, Martin Krauss. "Future water quality monitoring: improving the balance between exposure and toxicity assessments of real-world pollutant mixtures", *Environmental Sciences Europe*, 31 - (1) - [10.1186/s12302-019-0193-1](https://doi.org/10.1186/s12302-019-0193-1)
- **Antonio Del Sol, Satoshi Okawa, Srikanth Ravichandran**. "Computational Strategies for Niche-Dependent Cell Conversion to Assist Stem Cell Therapy.", *Trends In Biotechnology*, 37 - (7) - 687-696, [10.1016/j.tibtech.2019.01.005](https://doi.org/10.1016/j.tibtech.2019.01.005)
- Christian Koelsche, Damian Stichel, Klaus G. Griewank, Daniel Schrimpf, David E. Reuss, Melanie Bewerunge-Hudler, Christian Vokuhl, Winand N. M. Dinjens, Iver Petersen, **Michel Mittelbronn**, Adrian Cuevas-Bourdier, Rolf Buslei, Stefan M. Pfister, Uta Flucke, Gunhild Mechttersheimer, Thomas Mentzel, Andreas von Deimling. "Genome-wide methylation profiling and copy number analysis in atypical fibroxanthomas and pleomorphic dermal sarcomas indicate a similar molecular phenotype.", *Clinical Sarcoma Research*, 9 - (2) - 2, [10.1186/s13569-019-0113-6](https://doi.org/10.1186/s13569-019-0113-6)
- Aleksandra Siekierska, Hannah Stamberger, Tine Deconinck, Stephanie N Oprescu, Michele Partoens, Yifan Zhang, Jo Sourbron, Elias Adriaenssens, Patrick Mullen, Patrick Wienczek, Katia Hardies, Jeong-Soo Lee, Hoi-Khoanh Giong, Felix Distelmaier, Orly Elpeleg, Katherine L Helbig, Joseph Hersh, Sedat Isikay, Elizabeth Jordan, Ender Karaca, Angela Kecskes, James R Lupski, Reka Kovacs-Nagy, **Patrick May**, Vinodh Narayanan, Manuela Pendziwiat, Keri Ramsey, Sampathkumar Rangasamy, Deepali N Shinde, Ronen Spiegel, Vincent Timmerman, Sarah von Spiczak, Ingo Helbig, Sarah Weckhuysen, Christopher

- Francklyn, Anthony Antonellis, Peter de Witte, Peter De Jonghe, C4RCD Research Group, AR working group of the EuroEPINOMICS RES Consortium. "Biallelic VARS variants cause developmental encephalopathy with microcephaly that is recapitulated in vars knockout zebrafish.", *Nature Communications*, 10 - (1) - 708, [10.1038/s41467-018-07953-w](https://doi.org/10.1038/s41467-018-07953-w)
- Martha Foltyn, Anna-Luisa Luger, Nadja I Lorenz, Benedikt Sauer, **Michel Mittelbronn**, Patrick N Harter, Joachim P Steinbach, Michael W Ronellenfisch. "The physiological mTOR complex 1 inhibitor DDIT4 mediates therapy resistance in glioblastoma.", *British Journal Of Cancer*, 120 - (5) - 481-7, [10.1038/s41416-018-0368-3](https://doi.org/10.1038/s41416-018-0368-3)
  - Thomas Sb Schmidt, Matthew R Hayward, Luis P Coelho, Simone S Li, Paul I Costea, Anita Y Voigt, Jakob Wirbel, Oleksandr M Maistrenko, Renato Jc Alves, Emma Bergsten, **Carine de Beaufort**, Iradj Sobhani, **Anna Heintz-Buschart**, Shinichi Sunagawa, Georg Zeller, **Paul Wilmes**, Peer Bork. "Extensive transmission of microbes along the gastrointestinal tract.", *Elife*, 8 - [10.7554/eLife.42693](https://doi.org/10.7554/eLife.42693)
  - **Khalid I W Kane**, **Edinson Lucumi Moreno**, **Siham Hachi**, Moriz Walter, **Javier Jarazo**, **Miguel A P Oliveira**, Thomas Hankemeier, Paul Vulto, **Jens C Schwamborn**, Martin Thoma, **Ronan M T Fleming**. "Automated microfluidic cell culture of stem cell derived dopaminergic neurons.", *Scientific Reports*, 9 - (1) - 1796, [10.1038/s41598-018-34828-3](https://doi.org/10.1038/s41598-018-34828-3)
  - Stefan Wolking, **Patrick May**, Davide Mei, Rikke S. Møller, Simona Balestrini, Katherine L. Helbig, Cecilia Desmettre Altuzarra, Nicolas Chatron, Charu Kaiwar, Katharina Stöhr, Peter Widdess-Walsh, Bryce A. Mendelsohn, Adam Numis, Maria R. Cilio, Wim Van Paesschen, Lene L. Svendsen, Stephanie Oates, Elaine Hughes, Sushma Goyal, Kathleen Brown, Margarita Sifuentes Saenz, Thomas Dorn, Hiltrud Muhle, Alistair T. Pagnamenta, Dimitris V. Vavoulis, Samantha J.L. Knight, Jenny C. Taylor, Maria Paola Canevini, Francesca Darra, Ralitzia H. Gavriloza, Zöe Powis, Shan Tang, Justus Marquetand, Martin Armstrong, Duncan McHale, Eric W. Klee, Gerhard J. Kluger, Daniel H. Lowenstein, Sarah Weckhuysen, Deb K. Pal, Ingo Helbig, Renzo Guerrini, Rhys H. Thomas, Mark I. Rees, Gaetan Lesca, Sanjay M. Sisodiya, Yvonne G. Weber, Dennis Lal, Carla Marini, Holger Lerche, Julian Schubert. "Clinical spectrum of STX1B-related epileptic disorders", *Neurology*, 92 - (11) - e1238-e1249, [10.1212/WNL.0000000000007089](https://doi.org/10.1212/WNL.0000000000007089)
  - Giorgia Mastrella, Mengzhuo Hou, Min Li, Veit M Stoecklein, Nina Zdouc, Marie N M Volmar, Hrvoje Miletic, Soren Reinhard, Christel C Herold-Mende, Susanne Kleber, Katharina Eisenhut, Gaetano Gargiulo, Michael Synowitz, Angelo L Vescovi, Patrick N Harter, Josef M Penninger, Ernst Wagner, **Michel Mittelbronn**, Rolf Bjerkvig, Dolores Hambardzumyan, Ulrich Schuller, Jorg-Christian Tonn, Josefine Radke, Rainer Glass, Roland E Kalin. "Targeting APLN/APLNR Improves Antiangiogenic Efficiency and Blunts Proinvasive Side Effects of VEGFA/VEGFR2 Blockade in Glioblastoma.", *Cancer Research*, 79 - (9) - 2298-2313, [10.1158/0008-5472.CAN-18-0881](https://doi.org/10.1158/0008-5472.CAN-18-0881)
  - **Laurent Mombaerts**, Alberto Carignano, Fiona C Robertson, Timothy J Hearn, Jin Junyang, David Hayden, Zoe Rutterford, Carlos T Hotta, Katherine E Hubbard, Marti Ruiz C Maria, Ye Yuan, Matthew A Hannah, **Jorge Goncalves**, Alex A R Webb. "Dynamical differential expression (DyDE) reveals the period control mechanisms of the Arabidopsis circadian oscillator.", *Plos Computational Biology*, 15 - (1) - e1006674, [10.1371/journal.pcbi.1006674](https://doi.org/10.1371/journal.pcbi.1006674)
  - F Hernandez, J Bakker, L Bijlsma, J de Boer, A M Botero-Coy, Y Bruinen de Bruin, S Fischer, J Hollender, B Kasprzyk-Hordern, M Lamoree, F J Lopez, T L Ter Laak, J A van Leerdam, J V Sancho, **E L Schymanski**, P de Voogt, E A Hogendoorn. "The role of analytical chemistry in exposure science: Focus on the aquatic environment.", *Chemosphere*, 222 - 564-583, [10.1016/j.chemosphere.2019.01.118](https://doi.org/10.1016/j.chemosphere.2019.01.118)
  - Anna Schoellmann, Marlieke Scholten, Barbara Wasserka, Rathinaswamy B. Govindan, **Rejko Krüger**, Alireza Gharabaghi, Christian Plewnia, Daniel Weiss. "Anodal tDCS modulates cortical activity and synchronization in Parkinson's disease depending on motor processing.", *Neuroimage-Clinical*, 22 - 101689, [10.1016/j.nicl.2019.101689](https://doi.org/10.1016/j.nicl.2019.101689)
  - Johanna Klinger-Konig, **Johannes Hertel**, Sandra Van der Auwera, Stefan Frenzel, Liliane Pfeiffer, Melanie Waldenberger, Janine Golchert, Alexander Teumer, Matthias Nauck, Georg Homuth, Henry Volzke, Hans J Grabe. "Methylation of the FKBP5 gene in association with FKBP5 genotypes, childhood maltreatment and depression.", *Neuropsychopharmacology*, 44 - (5) - 930-938, [10.1038/s41386-019-0319-6](https://doi.org/10.1038/s41386-019-0319-6)
  - **Nicole Paczia**, **Julia Becker-Kettern**, **Jean-Francois Conrotte**, Javier O Cifuentes, Marcelo E Guerin, **Carole L Linster**. "3-Phosphoglycerate Transhydrogenation Instead of Dehydrogenation Alleviates the Redox State Dependency of Yeast de Novo L-Serine Synthesis.", *Biochemistry*, 58 - (4) - 259-275, [10.1021/acs.biochem.8b00990](https://doi.org/10.1021/acs.biochem.8b00990)
  - **Randolph R Singh**, Luisa F Angeles, Deena M Butryn, Jacob W Metch, Emily Garner, Peter J Vikesland, Diana S Aga. "Towards a harmonized method for the global reconnaissance of multi-class antimicrobials and other pharmaceuticals in wastewater and receiving surface waters.", *Environment International*, 124 - 361-369, [10.1016/j.envint.2019.01.025](https://doi.org/10.1016/j.envint.2019.01.025)
  - Marcel Kraemer, Marcin Krawczyk, **Fozia Noor**, Frank Grunhage, Frank Lammert, **Jochen G Schneider**. "Increased Circulating VAP-1 Levels Are Associated with Liver Fibrosis in Chronic Hepatitis C Infection.", *Journal Of Clinical Medicine*, 8 - (1) - [10.3390/jcm8010103](https://doi.org/10.3390/jcm8010103)
  - Snezana Maljevic, Rikke S Moller, Christopher A Reid, Eduardo Perez-Palma, Dennis Lal, **Patrick May**, Holger Lerche. "Spectrum of GABAA receptor variants in epilepsy.", *Current Opinion In Neurology*, 32 - (2) - 183-190, [10.1097/WCO.0000000000000657](https://doi.org/10.1097/WCO.0000000000000657)
  - **Enrico Glaab**, **Jean-Pierre Trezzi**, Andrea Greuel, **Christian Jager**, **Zdenka Hodak**, Alexander Drzezga, Lars Timmermann, Marc Tittgemeyer, Nico Jean Diederich, Carsten Eggers. "Integrative analysis of blood metabolomics and PET brain neuroimaging data for Parkinson's disease.", *Neurobiology Of Disease*, 124 - 555-562, [10.1016/j.nbd.2019.01.003](https://doi.org/10.1016/j.nbd.2019.01.003)
  - Maria Veiga-da-Cunha, Nathalie Chevalier, Xavier Stephenne, Jean-Philippe Defour, **Nicole Paczia**, Alina Ferster, Younes Achouri, Joseph P Dewulf, **Carole L Linster**, Guido T Bommer, Emile Van Schaftingen. "Failure to eliminate a phosphorylated glucose analog leads to neutropenia in patients with G6PT and G6PC3 deficiency.", *Proceedings Of The National Academy Of Sciences Of The United States Of America*, 116 - (4) - 1241-1250, [10.1073/pnas.1816143116](https://doi.org/10.1073/pnas.1816143116)
  - **Maria Lorena Cordero-Maldonado**, **Simon Perathoner**, Kees-Jan van der Kolk, Ralf Boland, **Ursula Heins-Marroquin**, Herman P Spaink, Annemarie H Meijer, **Alexander D Crawford**, Jan de Sonneville. "Deep learning image recognition enables efficient genome editing in zebrafish by automated injections.", *Plos One*, 14 - (1) - e0202377, [10.1371/journal.pone.0202377](https://doi.org/10.1371/journal.pone.0202377)
  - Rupert W Overall, **Rudi Balling**, Gerd Kempermann, Robert W Williams. "Workshop Report: Systems Genetics of Neurodegenerative Disease, a Summer School in Systems Medicine, 25th August-1st September 2017.", *Frontiers In Genetics*, 10 - (FEB) - 29, [10.3389/fgene.2019.00029](https://doi.org/10.3389/fgene.2019.00029)
  - Carlos González-Sánchez, Juan-Carlos Fraile, Javier Pérez-Turiel, **Ellen Damm**, **Jochen G. Schneider**, Daniel Schmitt, Frank R. Ihmig. "Monitoring system for laboratory mice transportation: A novel concept for the measurement of physiological and environmental parameters", *Electronics*, 8 - (1) - [10.3390/electronics8010034](https://doi.org/10.3390/electronics8010034)

## Letter

- **Nassima Ouzren**, **Sylvie Delcambre**, **Jenny Ghelfi**, Philip Seibler, Matthew J Farrer, Inke R Konig, Jan O Aasly, Joanne Trinh, Christine Klein, **Anne Grunewald**. "Mitochondrial DNA Deletions Discriminate Affected from Unaffected LRRK2 Mutation Carriers.", *Annals Of Neurology*, 86 - (2) - 324-326, [10.1002/ana.25510](https://doi.org/10.1002/ana.25510)

2018

## Book

- Humberto De Vitto, **Roberta Palorini**, Giuseppina Votta, Ferdinando Chiaradonna. "Mitochondria in focus: Targeting the cell-death mechanism", Apoptosis and Beyond: The Many Ways Cells Die, 13-47, [10.1002/9781119432463.ch2](https://doi.org/10.1002/9781119432463.ch2)
- Sune S. Nielsen, Grégoire Danoy, Wiktor Jurkowski, **Roland Krause**, **Reinhard Schneider**, El Ghazali Talbi, Pascal Bouvry. "Evolutionary algorithms for the inverse protein folding problem", Handbook of Heuristics, 2-2 - 999-1023, [10.1007/978-3-319-07124-4\\_59](https://doi.org/10.1007/978-3-319-07124-4_59)

## Book Series

- **Pranjul Shah**, **Emilie E L Muller**, **Laura A Lebrun**, **Linda Wampach**, **Paul Wilmes**. "Sequential Isolation of DNA, RNA, Protein, and Metabolite Fractions from Murine Organs and Intestinal Contents for Integrated Omics of Host-Microbiota Interactions.", Microbial Proteomics. Methods in Molecular Biology., 1841 - 279-291, [10.1007/978-1-4939-8695-8\\_19](https://doi.org/10.1007/978-1-4939-8695-8_19)
- **Pinar Alper**, **Regina Becker**, **Venkata Satagopam**, **Christophe Trefois**, **Valentin Grouès**, **Jacek Lebioda**, **Yohan Jarosz**. "Provenance-enabled stewardship of human data in the GDPR Era", Provenance and Annotation of Data and Processes. IPAW 2018. Lecture Notes in Computer Science, 11017 LNCS - 266-269, [10.1007/978-3-319-98379-0\\_33](https://doi.org/10.1007/978-3-319-98379-0_33)
- María Eugenia Curi, Lucía Carozzi, Renzo Massobrio, Sergio Nesmachnow, Grégoire Danoy, **Marek Ostaszewski**, Pascal Bouvry. "Single and multiobjective evolutionary algorithms for clustering biomedical information with unknown number of clusters", Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 10835 LNCS - 100-112, [10.1007/978-3-319-91641-5\\_9](https://doi.org/10.1007/978-3-319-91641-5_9)
- **Janine Habier**, **Patrick May**, **Anna Heintz-Buschart**, **Anubrata Ghosal**, Anke K Wienecke-Baldacchino, Esther N M Nolte-t Hoen, **Paul Wilmes**, **Joelle V Fritz**. "Extraction and Analysis of RNA Isolated from Pure Bacteria-Derived Outer Membrane Vesicles.", Bacterial Regulatory RNA, 1737 - 213-230, [10.1007/978-1-4939-7634-8\\_13](https://doi.org/10.1007/978-1-4939-7634-8_13)
- **Andrzej Mizera**, Jun Pang, Hongyang Qu, Qixia Yuan. "ASSA-PBN 3.0: Analysing Context-Sensitive Probabilistic Boolean Networks", Lecture Notes in Computer Science, 11095 LNBI - 277-284, [10.1007/978-3-319-99429-1\\_16](https://doi.org/10.1007/978-3-319-99429-1_16)

## Conference Proceeding

- Soumya Paul, Cui Su, Jun Pang, **Andrzej Mizera**. "A Decomposition-based Approach towards the Control of Boolean Networks", ACM-BCB 2018 - Proceedings of the 2018 ACM International Conference on Bioinformatics, Computational Biology, and Health Informatics, 11-20, [10.1145/3233547.3233550](https://doi.org/10.1145/3233547.3233550)
- Junyang Jin, Ye Yuan, Wei Pan, Claire Tomlin, Alex A. Webb, **Jorge Gonçalves**. "Identification of nonlinear sparse networks using sparse Bayesian learning", 2017 IEEE 56th Annual Conference on Decision and Control, CDC 2017, 2018-January - 6481-6486, [10.1109/CDC.2017.8264636](https://doi.org/10.1109/CDC.2017.8264636)
- **Johan Thunberg**, Florian Bernard, **Jorge Gonçalves**. "Distributed synchronization of Euclidean transformations with guaranteed convergence", 2017 IEEE 56th Annual Conference on Decision and Control, CDC 2017, 2018-January - 3757-3762, [10.1109/CDC.2017.8264211](https://doi.org/10.1109/CDC.2017.8264211)
- **Johan Markdahl**, Nicolo Colombo, **Johan Thunberg**, **Jorge Goncalves**. "Experimental design trade-offs for gene regulatory network inference: An in silico study of the yeast *Saccharomyces cerevisiae* cell cycle", 2017 IEEE 56th Annual Conference on Decision and Control, CDC 2017, 2018-January - 423-428, [10.1109/CDC.2017.8263701](https://doi.org/10.1109/CDC.2017.8263701)
- **Zuogong Yue**, **Johan Thunberg**, Lennart Ljung, **Jorge Goncalves**. "On definition and inference of nonlinear Boolean dynamic networks", 2017 IEEE 56th Annual Conference on Decision and Control, CDC 2017, 2018-January - 429-434, [10.1109/CDC.2017.8263702](https://doi.org/10.1109/CDC.2017.8263702)
- Ioannis Tzortzis, Christoforos N. Hadjicostis, **Laurent Mombaerts**. "Reconstruction of gene regulatory networks using an error filtering learning scheme", 55th Annual Allerton Conference on Communication, Control, and Computing, Allerton 2017, 2018-January - 244-251, [10.1109/ALLERTON.2017.8262744](https://doi.org/10.1109/ALLERTON.2017.8262744)
- **Maria Biryukov**, **Valentin Grouès**, **Venkata Satagopam**, **Reinhard Schneider**. "BioKB - Text Mining and Semantic Technologies for Biomedical Content Discovery", CEUR Workshop Proceedings, 2042 -

## Editorial

- **Alessandro Michelucci**, **Michel Mittelbronn**, Diego Gomez-Nicola. "Microglia in health and disease: A unique immune cell population", Frontiers In Immunology, 9 - (AUG) - 1779, [10.3389/fimmu.2018.01779](https://doi.org/10.3389/fimmu.2018.01779)

## Journal

- Maria Angeliki S. Pavlou, Luc Grandbarbe, Noel J. Buckley, Simone P. Niclou, **Alessandro Michelucci**. "Transcriptional and epigenetic mechanisms underlying astrocyte identity", Progress In Neurobiology, 174 - 36-52, [10.1016/j.pneurobio.2018.12.007](https://doi.org/10.1016/j.pneurobio.2018.12.007)
- **K. I. W. Kane**, **E. Lucumi Moreno**, C. M. Lehr, **S. Hachi**, R. Dannert, R. Sanctuary, C. Wagner, **R.M.T. Fleming**, J. Baller. "Determination of the rheological properties of Matrigel for optimum seeding conditions in microfluidic cell cultures", Aip Advances, 8 - (12) - [10.1063/1.5067382](https://doi.org/10.1063/1.5067382)
- Andreas Keller, Tobias Fehlmann, Thomas Laufer, Christina Backes, Mustafa Kahramann, Julia Alles, Ulrike Fischer, Marie Minet, Nicole Ludwig, Fabian Kern, Tim Kehl, Valentina Galata, Aneta Dusterloh, Hannah Schrors, Jochen Kohlhaas, Robert Bals, Hanno Huwer, **Lars Geffers**, **Rejko Kruger**, **Rudi Balling**, Hans-Peter Lenhof, Eckart Meese. "Large-scale validation of miRNAs by disease association, evolutionary conservation and pathway activity.", Rna Biology, 16 - (1) - 93-103, [10.1080/15476286.2018.1559689](https://doi.org/10.1080/15476286.2018.1559689)
- Bianca Berghuis, Caragh Stapleton, Anja C.M. Sonsma, Janic Hulst, Gerrit Jan de Haan, Dick Lindhout, Rita Demurtas, **Roland Krause**, Chantal Depondt, Wolfram S. Kunz, Federico Zara, Pasquale Striano, John Craig, Pauls Auce, Anthony G. Marson, Hreinn Stefansson, Terence J. O'Brien, Michael R. Johnson, Graeme J. Sils, Stefan Wolkong, Holger Lerche, Sanjay M. Sisodiya, Josemir W. Sander, Gianpiero L. Cavalleri, Bobby P.C. Koeleman, Mark McCormack, **The EpiPGX Consortium**. "A genome-wide association study of sodium levels and drug metabolism in an epilepsy cohort treated with carbamazepine and oxcarbazepine", Epilepsia Open, 4 - (1) - 102-109, [10.1002/epi4.12297](https://doi.org/10.1002/epi4.12297)
- Herbert Oberacher, Vera Reinstadler, Marco Kreidl, Michael A Stravs, Juliane Hollender, **Emma L Schymanski**. "Annotating Nontargeted LC-HRMS/MS Data with Two Complementary Tandem Mass Spectral Libraries.", Metabolites, 9 - (1) - [10.3390/metabo9010003](https://doi.org/10.3390/metabo9010003)

- Nicole J Van Bergen, Yiran Guo, Julia Rankin, **Nicole Paczia, Julia Becker-Kettern**, Laura S Kremer, Angela Pyle, **Jean-Francois Conrotte**, Carolyn Ellaway, Peter Procopis, Kristina Prelog, Tessa Homfray, Julia Baptista, Emma Baple, Matthew Wakeling, Sean Massey, **Daniel P Kay**, Anju Shukla, Katta M Girisha, Leslie E S Lewis, Saikat Santra, Rachel Power, Piers Daubeney, Julio Montoya, Eduardo Ruiz-Pesini, Reka Kovacs-Nagy, Martin Pritsch, Uwe Ahting, David R Thorburn, Holger Prokisch, Robert W Taylor, John Christodoulou, **Carole L Linster**, Sian Ellard, Hakon Hakonarson. "NAD(P)HX dehydratase (NAXD) deficiency: a novel neurodegenerative disorder exacerbated by febrile illnesses.", *Brain*, 142 - (1) - 50-58, [10.1093/brain/awy310](https://doi.org/10.1093/brain/awy310)
- Jochen Klucken, **Rejko Kruger**, Peter Schmidt, Bastiaan R Bloem. "Management of Parkinson's Disease 20 Years from Now: Towards Digital Health Pathways.", *Journal Of Parkinsons Disease*, 8 - (s1) - S85-S94, [10.3233/JPD-181519](https://doi.org/10.3233/JPD-181519)
- J B Legradi, C Di Paolo, M H S Kraak, H G van der Geest, **E L Schymanski**, A J Williams, M M L Dingemans, R Massei, W Brack, X Cousin, M-L Begout, R van der Oost, A Carion, V Suarez-Ulloa, F Silvestre, B I Escher, M Engwall, G Nilen, S H Keiter, D Pollet, P Waldmann, C Kienle, I Werner, A-C Haigis, D Knapen, L Vergauwen, M Spehr, W Schulz, W Busch, D Leuthold, S Scholz, C M Vom Berg, N Basu, C A Murphy, A Lampert, J Kuckelkorn, T Grummt, H Hollert. "An ecotoxicological view on neurotoxicity assessment.", *Environmental Sciences Europe*, 30 - (1) - 46, [10.1186/s12302-018-0173-x](https://doi.org/10.1186/s12302-018-0173-x)
- Deborah Gerard, Florian Schmidt, Aurelien Ginolhac, Martine Schmitz, **Rashi Halder**, Peter Ebert, Marcel H Schulz, Thomas Sauter, Lasse Sinkkonen. "Temporal enhancer profiling of parallel lineages identifies AHR and GLIS1 as regulators of mesenchymal multipotency.", *Nucleic Acids Research*, 47 - (3) - 1141-1163, [10.1093/nar/gky1240](https://doi.org/10.1093/nar/gky1240)
- Stephan Christel, **Malte Herold**, Sören Bellenberg, Antoine Buetti-Dinh, Mohamed El Hajjami, Igor V. Pivkin, Wolfgang Sand, **Paul Wilmes**, Ansgar Poetsch, Mario Vera, Mark Dopson. "Weak iron oxidation by *Sulfobacillus thermosulfidoxidans* maintains a favorable redox potential for chalcopyrite bioleaching", *Frontiers In Microbiology*, 9 - (DEC) - 3059, [10.3389/fmicb.2018.03059](https://doi.org/10.3389/fmicb.2018.03059)
- Bettina Linnartz-Gerlach, Liviu-Gabriel Bodea, Christine Klaus, Aurelien Ginolhac, **Rashi Halder**, Lasse Sinkkonen, Jochen Walter, Marco Colonna, Harald Neumann. "TREM2 triggers microglial density and age-related neuronal loss.", *Glia*, 67 - (3) - 539-550, [10.1002/glia.23563](https://doi.org/10.1002/glia.23563)
- Bassel Abou-Khalil, Pauls Auce, Andreja Avbersek, Melanie Bahlo, David J. Balding, Thomas Bast, Larry Baum, Albert J. Becker, Felicitas Becker, Bianca Berghuis, Samuel F. Berkovic, Katja E. Boysen, Jonathan P. Bradfield, Lawrence C. Brody, Russell J. Buono, Ellen Campbell, Gregory D. Cascino, Claudia B. Catarino, Gianpiero L. Cavalleri, Stacey S. Cherny, Krishna Chinthapalli, Alison J. Coffey, Alastair Compston, Antonietta Coppola, Patrick Cossette, John J. Craig, Gerrit Jan de Haan, Peter De Jonghe, Carolien G.F. de Kovel, Norman Delanty, Chantal Depondt, Orrin Devinsky, Dennis J. Dlugos, Colin P. Doherty, Christian E. Elger, Johan G. Eriksson, Thomas N. Ferraro, Martha Feucht, Ben Francis, Andre Franke, Jacqueline A. French, Saskia Freytag, Verena Gaus, Eric B. Geller, Christian Gieger, Tracy Glauser, Simon Glynn, David B. Goldstein, Hongsheng Gui, Youling Guo, Kevin F. Haas, Hakon Hakonarson, Kerstin Hallmann, Sheryl Haut, Erin L. Heinzen, Ingo Helbig, Christian Hengsbach, Helle Hjalgrim, Michele Iacomino, Andrés Ingason, Jennifer Jamnadas-Khoda, Michael R. Johnson, Reetta Kälviäinen, Anne Mari Kantanen, Dalia Kasperavičiūtė, Dorothee Kasteleijn-Nolst Trenite, Heidi E. Kirsch, Robert C. Knowlton, Bobby P.C. Koeleman, **Roland Krause**, Martin Krenn, Wolfram S. Kunz, Ruben Kuzniecky, Patrick Kwan. "Genome-wide mega-analysis identifies 16 loci and highlights diverse biological mechanisms in the common epilepsies", *Nature Communications*, 9 - (1) - [10.1038/s41467-018-07524-z](https://doi.org/10.1038/s41467-018-07524-z)
- Ornella Carrion, Nasmille L Larke-Mejia, Lisa Gibson, Muhammad Farhan Ul Haque, **Javier Ramiro-Garcia**, Terry J McGenity, J Colin Murrell. "Gene probing reveals the widespread distribution, diversity and abundance of isoprene-degrading bacteria in the environment.", *Microbiome*, 6 - (1) - 219, [10.1186/s40168-018-0607-0](https://doi.org/10.1186/s40168-018-0607-0)
- Pia S Zeiner, Corinna Preusse, Anna Golebiewska, Jenny Zinke, Ane Iriondo, Arnaud Muller, Tony Kaoma, Katharina Filipski, Monika Muller-Eschner, Simon Bernatz, Anna-Eva Blank, Peter Baumgarten, Elena Ilina, Anne Grote, Martin L Hansmann, Marcel A Verhoff, Kea Franz, Friedrich Feuerhake, Joachim P Steinbach, Jorg Wischhusen, Werner Stenzel, Simone P Niclou, Patrick N Harter, **Michel Mittelbronn**. "Distribution and prognostic impact of microglia/macrophage subpopulations in gliomas.", *Brain Pathology*, 29 - (4) - 513-29, [10.1111/bpa.12690](https://doi.org/10.1111/bpa.12690)
- **Linda Wampach, Anna Heintz-Buschart, Joelle V Fritz, Javier Ramiro-Garcia, Janine Habier, Malte Herold, Shaman Narayanasamy, Anne Kaysen**, Angela H Hogan, Lutz Bindl, Jean Bottu, **Rashi Halder**, Conny Sjoqvist, **Patrick May**, Anders F Andersson, Carine de Beaufort, **Paul Wilmes**. "Birth mode is associated with earliest strain-conferred gut microbiome functions and immunostimulatory potential.", *Nature Communications*, 9 - (1) - 5091, [10.1038/s41467-018-07631-x](https://doi.org/10.1038/s41467-018-07631-x)
- Asha Kishore, Ashwin Ashok Kumar Sreelatha, Marc Sturm, Felix von-Zweyendorf, Lasse Pihlstrom, Francesco Raimondi, Rob Russell, Peter Lichtner, Moinak Banerjee, Syam Krishnan, Roopa Rajan, Divya Kalikavil Puthenveedu, Sun Ju Chung, Peter Bauer, Olaf Riess, Christian Johannes Gloeckner, **Rejko Kruger**, Thomas Gasser, Manu Sharma, International Parkinson's Disease Genomics Consortium (IPDGC), Comprehensive Unbiased Risk Factor Assessment for Genetics and Environment in, **Parkinson's Disease (COURAGE-PD)**. "Understanding the role of genetic variability in LRRK2 in Indian population.", *Movement Disorders*, 34 - (4) - 496-505, [10.1002/mds.27558](https://doi.org/10.1002/mds.27558)
- **Federico Baldini, Almut Heinken, Laurent Heirendt, Stefania Magnusdottir**, Ronan M T Fleming, **Ines Thiele**. "The Microbiome Modeling Toolbox: from microbial interactions to personalized microbial communities.", *Bioinformatics*, 35 - (13) - 2332-2334, [10.1093/bioinformatics/bty941](https://doi.org/10.1093/bioinformatics/bty941)
- **Silvia Bolognin, Marie Fossépré, Xiaobing Qing, Javier Jarazo, Janez Ščanlarič, Edinson Lucumi Moreno, Sarah L. Nickels, Kobi Wasner, Nassima Ouzren, Jonas Walter, Anne Grünewald, Enrico Glaab, Luis Salamanca, Ronan M.T. Fleming, Paul M.A. Antony, Jens C. Schwamborn**. "3D Cultures of Parkinson's Disease-Specific Dopaminergic Neurons for High Content Phenotyping and Drug Testing", *Advanced Science*, 6 - (1) - 1800927, [10.1002/advs.201800927](https://doi.org/10.1002/advs.201800927)
- Tanja Eisemann, Barbara Costa, Patrick N Harter, Wolfgang Wick, **Michel Mittelbronn**, Peter Angel, Heike Peterziel. "Podoplanin expression is a prognostic biomarker but may be dispensable for the malignancy of glioblastoma.", *Neuro-Oncology*, 21 - (3) - 326-336, [10.1093/neuonc/hoy184](https://doi.org/10.1093/neuonc/hoy184)
- Cornelis Blauwendraat, Xylena Reed, Demis A. Kia, Ziv Gan-Or, Suzanne Lesage, Lasse Pihlstrøm, Rita Guerreiro, J. Raphael Gibbs, Marya Sabir, Sarah Ahmed, Jinhui Ding, Roy N. Alcalay, Sharon Hassin-Baer, Alan M. Pittman, Janet Brooks, Connor Edsall, Dena G. Hernandez, Sun Ju Chung, Stefano Goldwurm, Mathias Toft, Claudia Schulte, Jose Bras, Nicholas W. Wood, Alexis Brice, Huw R. Morris, Sonja W. Scholz, Mike A. Nalls, Andrew B. Singleton, **COURAGE-PD Consortium**, French Parkinson's Disease Consortium, IPDGC Consortium. "Frequency of loss of function variants in LRRK2 in Parkinson disease", *Jama Neurology*, 75 - (11) - 1416-1422, [10.1001/jamaneurol.2018.1885](https://doi.org/10.1001/jamaneurol.2018.1885)
- **Geraldine Hipp**, Michel Vaillant, Nico J Diederich, **Kirsten Roomp, Venkata P Satagopam, Peter Banda**, Estelle Sandt, **Kathleen Mommaerts, Sabine K Schmitz**, Laura Longhino, Alexandra Schweicher, Anne-Marie Hanff, Beatrice Nicolai, **Pierre Kolber, Dorothea Reiter, Lukas Pavelka, Sylvia Binck, Claire Pauly, Lars Geffers**, Fay Betsou, Manon Gantenbein, Jochen Klucken, Thomas Gasser, Michele T Hu, **Rudi Baling, Rejko Kruger**. "The Luxembourg Parkinson's Study: A Comprehensive Approach for Stratification and Early Diagnosis.", *Frontiers In Aging Neuroscience*, 10 - 326, [10.3389/fnagi.2018.00326](https://doi.org/10.3389/fnagi.2018.00326)
- **Alberto Noronha, Jennifer Modamio, Yohan Jarosz, Elisabeth Guerard**, Nicolas Sompairac, **German Preciat, Anna Drofn Danielsdottir, Max Krecke, Diane Merten, Hulda S Haraldsdottir, Almut Heinken, Laurent Heirendt, Stefania Magnusdottir, Dmitry A Ravcheev, Swagatika Sahoo, Piotr Gawron, Lucia Friscioni, Beatriz Garcia, Mabel Prendergast, Alberto Puente, Mariana Rodrigues, Akansha Roy, Mouss Rouquaya, Luca Wiltgen, Alise Zagare, Elisabeth John, Maren Krueger**, Inna Kuperstein, Andrei Zinovyev, **Reinhard Schneider, Ronan M T Fleming, Ines Thiele**. "The Virtual Metabolic

Human database: integrating human and gut microbiome metabolism with nutrition and disease.", *Nucleic Acids Research*, 47 - (D1)

- D614-D624, [10.1093/nar/gky992](https://doi.org/10.1093/nar/gky992)

- Joanne Trinh, Florentine M J Zeldenrust, Jana Huang, Meike Kasten, Susen Schaake, Sonja Petkovic, Harutyun Madoev, **Anne Grunewald**, Shahad Almuammar, Inke R Konig, Christina M Lill, Katja Lohmann, Christine Klein, Connie Marras. "Genotype-phenotype relations for the Parkinson's disease genes SNCA, LRRK2, VPS35: MDSGene systematic review.", *Movement Disorders*, 33 - (12) - 1857-1870, [10.1002/mds.27527](https://doi.org/10.1002/mds.27527)
- Lisa-Marie Niestroj, Juanjiangmeng Du, Michael Nothnagel, **Patrick May**, Aarno Palotie, Mark J Daly, Peter Nurnberg, Ingmar Blumcke, Dennis Lal. "Guideline-based and bioinformatic reassessment of lesion-associated gene and variant pathogenicity in focal human epilepsies.", *Epilepsia*, 59 - (11) - 2145-2152, [10.1111/epi.14579](https://doi.org/10.1111/epi.14579)
- Tina Harmuth, Caroline Prell-Schicker, Jonasz J. Weber, Frank Gellerich, Claudia Funke, Stefan Drießen, Janine C.D. Magg, Guido Krebiehl, Hartwig Wolburg, Stefanie N. Hayer, Stefan Hauser, **Rejko Krüger**, Ludger Schöls, Olaf Riess, Jeannette Hübener-Schmid. "Mitochondrial Morphology, Function and Homeostasis Are Impaired by Expression of an N-terminal Calpain Cleavage Fragment of Ataxin-3", *Frontiers In Molecular Neuroscience*, 11 - 368, [10.3389/fnmol.2018.00368](https://doi.org/10.3389/fnmol.2018.00368)
- Mehedi Hassan, **Aishwarya Alex Namasivayam**, Dan DeBlasio, Nazeefa Fatima, Benjamin Siranosian, R Gonzalo Parra, Bart Cuypers, Sayane Shome, Alexander Miguel Monzon, Julien Fumey, Farzana Rahman. "Reflections on a journey: a retrospective of the ISCB Student Council symposium series.", *Bmc Bioinformatics*, 19 - (Suppl 12) - 347, [10.1186/s12859-018-2369-x](https://doi.org/10.1186/s12859-018-2369-x)
- Simon Gutbier, **Patrick May**, Sylvie Berthelot, **Abhimanyu Krishna**, Timo Trefzer, Mehri Behbehani, Liudmila Efremova, Johannes Delp, Gerhard Gstraunthaler, Tanja Waldmann, Marcel Leist. "Major changes of cell function and toxicant sensitivity in cultured cells undergoing mild, quasi-natural genetic drift.", *Archives Of Toxicology*, 92 - (12) - 3487-3503, [10.1007/s00204-018-2326-5](https://doi.org/10.1007/s00204-018-2326-5)
- Jorge Domínguez-Andrés, Boris Novakovic, Yang Li, Brendon P. Scicluna, Mark S. Gresnigt, Rob J.W. Arts, Marije Oosting, Simone J.C.F.M. Moorlag, Laszlo A. Groh, Jelle Zwaag, Rebecca M. Koch, Rob ter Horst, Leo A.B. Joosten, Cisca Wijmenga, **Alessandro Michelucci**, Tom van der Poll, Matthijs Kox, Peter Pickkers, Vinod Kumar, Henk Stunnenberg, Mihai G. Netea. "The Itaconate Pathway Is a Central Regulatory Node Linking Innate Immune Tolerance and Trained Immunity", *Cell Metabolism*, 29 - (1) - 211-220.e5, [10.1016/j.cmet.2018.09.003](https://doi.org/10.1016/j.cmet.2018.09.003)
- **Andrzej Mizera**, Jun Pang, Qixia Yuan. "GPU-accelerated steady-state computation of large probabilistic Boolean networks", *Formal Aspects Of Computing*, 31 - (1) - 27-46, [10.1007/s00165-018-0470-6](https://doi.org/10.1007/s00165-018-0470-6)
- **Fozia Noor**, **Anne Kaysen**, **Paul Wilmes**, **Jochen G Schneider**. "The Gut Microbiota and Hematopoietic Stem Cell Transplantation: Challenges and Potentials.", *Journal Of Innate Immunity*, 11 - (5) - 405-15, [10.1159/000492943](https://doi.org/10.1159/000492943)
- Eric W. Deutsch, Yasset Perez-Riverol, Robert J. Chalkley, Mathias Wilhelm, Stephen Tate, Timo Sachsenberg, Mathias Walzer, Lukas Käll, Bernard Delanghe, Sebastian Böcker, **Emma L. Schymanski**, **Paul Wilmes**, Viktoria Dorfer, Bernhard Kuster, Pieter Jan Volders, Nico Jehmlich, Johannes P.C. Vissers, Dennis W. Wolan, Ana Y. Wang, Luis Mendoza, Jim Shofstahl, Andrew W. Dowsey, Johannes Griss, Reza M. Salek, Steffen Neumann, Pierre Alain Binz, Henry Lam, Juan Antonio Vizcaino, Nuno Bandeira, Hannes Röst. "Expanding the Use of Spectral Libraries in Proteomics", *Journal Of Proteome Research*, 17 - (12) - 4051-60, [10.1021/acs.jproteome.8b00485](https://doi.org/10.1021/acs.jproteome.8b00485)
- **Adriano Barbosa-Silva**, Dorina Bratfalean, **Wei Gu**, **Venkata Satagopam**, Paul Houston, Lauren B Becnel, **Serge Eifes**, Fabien Richard, Andreas Tielmann, **Sascha Herzinger**, **Kavita Rege**, **Rudi Balling**, Paul Peeters, **Reinhard Schneider**. "Presenting and Sharing Clinical Data using the eTRIKS Standards Master Tree for transSMART.", *Bioinformatics*, 35 - (9) - 1562-5, [10.1093/bioinformatics/bty809](https://doi.org/10.1093/bioinformatics/bty809)
- Jarlei Fiamoncini, Milena Rundle, Helena Gibbons, E. Louise Thomas, Kerstin Geillinger-Kästle, Diana Bunzel, **Jean Pierre Trezzi**, Yoana Kiselova-Kaneva, Suzan Wopereis, Judith Wahrheit, Sabine E. Kulling, Karsten Hiller, Denise Sonntag, Diana Ivanova, Ben Van Ommen, Gary Frost, Lorraine Brennan, Jimmy Bell, Hannelore Daniel. "Plasma metabolome analysis identifies distinct human metabolotypes in the postprandial state with different susceptibility to weight loss-mediated metabolic improvements", *Faseb Journal*, 32 - (10) - 5447-5458, [10.1096/fj.201800330R](https://doi.org/10.1096/fj.201800330R)
- **Wilmes Paul**, Calatayud Marta, Van de Wiele Tom. "Resolving host-microbe interactions in the gut: the promise of in vitro models to complement in vivo research.", *Current Opinion In Microbiology*, 44 - 28-33, [10.1016/j.mib.2018.07.001](https://doi.org/10.1016/j.mib.2018.07.001)
- Clement Frainay, **Emma L Schymanski**, Steffen Neumann, Benjamin Merlet, Reza M Salek, Fabien Jourdan, Oscar Yanas. "Mind the Gap: Mapping Mass Spectral Databases in Genome-Scale Metabolic Networks Reveals Poorly Covered Areas.", *Metabolites*, 8 - (3) - 51, [10.3390/metabo8030051](https://doi.org/10.3390/metabo8030051)
- **Anne Grunewald**, Kishore R Kumar, Carolyn M Sue. "New insights into the complex role of mitochondria in Parkinson's disease.", *Progress In Neurobiology*, 177 - 73-93, [10.1016/j.pneurobio.2018.09.003](https://doi.org/10.1016/j.pneurobio.2018.09.003)
- Raquel Pinho, Isabel Paiva, Kristina Gotovac Jercic, Luis Fonseca-Ornelas, Ellen Gerhardt, Christiane Fahlbusch, Paula Garcia-Esparcia, Cemil Kerimoglu, Maria A S Pavlou, Anna Villar-Pique, Eva Szego, Tomas Lopes da Fonseca, Francesca Odoardi, Szabolcs Soeroes, Ana Cristina Rego, Wolfgang Fischle, **Jens C Schwamborn**, Thomas Meyer, Sebastian Kugler, Isidre Ferrer, Johannes Attems, Andre Fischer, Stefan Becker, Markus Zweckstetter, Fran Borovecki, Tiago F Outeiro. "Nuclear localization and phosphorylation modulate pathological effects of alpha-synuclein.", *Human Molecular Genetics*, 28 - (1) - 31-50, [10.1093/hmg/ddy326](https://doi.org/10.1093/hmg/ddy326)
- **Carole Sousa**, Anna Golebiewska, **Suresh K Poovathingal**, Tony Kaoma, Yolanda Pires-Afonso, **Silvia Martina**, **Djalil Coowar**, Francisco Azuaje, **Alexander Skupin**, **Rudi Balling**, Knut Biber, Simone P Niclou, **Alessandro Michelucci**. "Single-cell transcriptomics reveals distinct inflammation-induced microglia signatures.", *Embo Reports*, 19 - (11) - [10.15252/embr.201846171](https://doi.org/10.15252/embr.201846171)
- **Emanuel Berger**, Chiara Magliaro, **Nicole Paczia**, **Anna S Monzel**, **Paul Antony**, **Carole L Linster**, **Silvia Bolognin**, Arti Ahluwalia, **Jens C Schwamborn**. "Millifluidic culture improves human midbrain organoid vitality and differentiation.", *Lab On A Chip*, 18 - (20) - 3172-3183, [10.1039/c8lc00206a](https://doi.org/10.1039/c8lc00206a)
- **Andras Hartmann**, **Satoshi Okawa**, **Gaia Zaffaroni**, **Antonio Del Sol**. "SeesawPred: A Web Application for Predicting Cell-fate Determinants in Cell Differentiation.", *Scientific Reports*, 8 - (1) - 13355, [10.1038/s41598-018-31688-9](https://doi.org/10.1038/s41598-018-31688-9)
- Karlfried Groebe, Jing Cen, Domitille Schvartz, Ernest Sargsyan, Azazul Chowdhury, **Kirsten Roomp**, **Reinhard Schneider**, Anders Alderborn, Jean Charles Sanchez, Peter Bergsten. "Palmitate-Induced Insulin Hypersecretion and Later Secretory Decline Associated with Changes in Protein Expression Patterns in Human Pancreatic Islets", *Journal Of Proteome Research*, 17 - (11) - 3824-3836, [10.1021/acs.jproteome.8b00239](https://doi.org/10.1021/acs.jproteome.8b00239)
- **Kathrin Hemmer**, **Lisa M. Smits**, **Silvia Bolognin**, **Jens C. Schwamborn**. "In vivo phenotyping of human Parkinson's disease-specific stem cells carrying the LRRK2-G2019S mutation reveals increased a-synuclein levels but absence of spreading", *Opera Medica Et Physiologica*, 4 - (2) - 71-77, [10.20388/omp2018.001.0057](https://doi.org/10.20388/omp2018.001.0057)
- Andreas Horn, Ningfei Li, Till A Dembek, Ari Kappel, Chadwick Boulay, Siobhan Ewert, Anna Tietze, **Andreas Husch**, Thushara Perera, Wolf-Julian Neumann, Marco Reisert, Hang Si, Robert Oostenveld, Christopher Rorden, Fang-Cheng Yeh, Qianqian Fang, Todd M Herrington, Johannes Vorwerk, Andrea A Kuhn. "Lead-DBS v2: Towards a comprehensive pipeline for deep brain stimulation imaging.", *Neuroimage*, 184

- 293-316, [10.1016/j.neuroimage.2018.08.068](https://doi.org/10.1016/j.neuroimage.2018.08.068)

- **Antoine Malabirade, Janine Habier, Anna Heintz-Buschart, Patrick May, Julien Godet, Rashi Halder, Alton Etheridge, David Galas, Paul Wilmes, Joëlle V. Fritz.** "The RNA complement of outer membrane vesicles from Salmonella enterica Serovar Typhimurium under distinct culture conditions", *Frontiers In Microbiology*, 9 - (AUG) - 2015, [10.3389/fmicb.2018.02015](https://doi.org/10.3389/fmicb.2018.02015)
- Andrew D McEachran, Kamel Mansouri, Chris Grulke, **Emma L Schymanski**, Christoph Ruttkies, Antony J Williams. "'MS-Ready" structures for non-targeted high-resolution mass spectrometry screening studies.", *Journal Of Cheminformatics*, 10 - (1) - 45, [10.1186/s13321-018-0299-2](https://doi.org/10.1186/s13321-018-0299-2)
- **Marek Ostaszewski**, Emmanuel Kieffer, Gregoire Danoy, **Reinhard Schneider**, Pascal Bouvry. "Clustering approaches for visual knowledge exploration in molecular interaction networks.", *Bmc Bioinformatics*, 19 - (1) - 308, [10.1186/s12859-018-2314-z](https://doi.org/10.1186/s12859-018-2314-z)
- **Anne Grünwald.** "Mutationen im VSP13D-Gen verursachen eine oftmals frühkindliche spastische Ataxie", *Dgneurologie*, 1 - (1) - 58–59, [10.1007/s42451-018-0005-7](https://doi.org/10.1007/s42451-018-0005-7)
- Sonja Schotterl, Stephan M Huber, Hans Lentzen, **Michel Mittelbronn**, Ulrike Naumann. "Adjuvant Therapy Using Mistletoe Containing Drugs Boosts the T-Cell-Mediated Killing of Glioma Cells and Prolongs the Survival of Glioma Bearing Mice.", *Evidence-Based Complementary And Alternative Medicine*, 2018 - 3928572, [10.1155/2018/3928572](https://doi.org/10.1155/2018/3928572)
- **Sascha Herzinger, Valentin Groues, Wei Gu, Venkata Satagopam, Peter Banda, Christophe Trefois, Reinhard Schneider.** "Fractalis: A scalable open-source service for platform-independent interactive visual analysis of biomedical data.", *Gigascience*, 7 - (9) - [10.1093/gigascience/giy109](https://doi.org/10.1093/gigascience/giy109)
- Holger Frohlich, **Rudi Balling**, Niko Beerenwinkel, Oliver Kohlbacher, Santosh Kumar, Thomas Lengauer, Marloes H Maathuis, Yves Moreau, Susan A Murphy, Teresa M Przytycka, Michael Rebhan, Hannes Rost, Andreas Schuppert, Matthias Schwab, Rainer Spang, Daniel Stekhoven, Jimeng Sun, Andreas Weber, Daniel Ziemek, Blaz Zupan. "From hype to reality: data science enabling personalized medicine", *Bmc Medicine*, 16 - (1) - 150, [10.1186/s12916-018-1122-7](https://doi.org/10.1186/s12916-018-1122-7)
- Kamel Jabbari, **Dheeraj R Bobbili**, Dennis Lal, Eva M Reinthaler, Julian Schubert, Stefan Wolking, Vishal Sinha, Susanne Motameny, Holger Thiele, Amit Kawalia, Janine Altmüller, Mohammad Reza Toliat, Robert Kraaij, Jeroen van Rooij, Andre G Uitterlinden, M Arfan Ikram, Federico Zara, Anna-Elina Lehesjoki, **Roland Krause**, Fritz Zimprich, Thomas Sander, Bernd A Neubauer, **Patrick May**, Holger Lerche, Peter Nurnberg, **EuroEPINOMICS CoGIE Consortium.** "Rare gene deletions in genetic generalized and Rolandic epilepsies.", *Plos One*, 13 - (8) - e0202022, [10.1371/journal.pone.0202022](https://doi.org/10.1371/journal.pone.0202022)
- Melanie Kirchmeyer, Florence A Servais, Matthias Hamdorf, Petr V Nazarov, Aurelien Ginolhac, **Rashi Halder**, Laurent Vallar, Matthias Glanemann, Claudia Rubie, Frank Lammert, Stephanie Kreis, Iris Behrmann. "Cytokine-mediated modulation of the hepatic miRNome: miR-146b-5p is an IL-6-inducible miRNA with multiple targets.", *Journal Of Leukocyte Biology*, 104 - (5) - 987-1002, [10.1002/JLB.MA1217-499RR](https://doi.org/10.1002/JLB.MA1217-499RR)
- Ernest Sargsyan, Jing Cen, **Kirsten Roomp, Reinhard Schneider**, Peter Bergsten. "Identification of early biological changes in palmitate-treated isolated human islets.", *Bmc Genomics*, 19 - (1) - 629, [10.1186/s12864-018-5008-z](https://doi.org/10.1186/s12864-018-5008-z)
- Michael W Ronellenfitsch, Pia S Zeiner, **Michel Mittelbronn**, Hans Urban, Torsten Pietsch, Dirk Reuter, Christian Senft, Joachim P Steinbach, Manfred Westphal, Patrick N Harter. "Akt and mTORC1 signaling as predictive biomarkers for the EGFR antibody nimotuzumab in glioblastoma.", *Acta Neuropathologica Communications*, 6 - (1) - 81, [10.1186/s40478-018-0583-4](https://doi.org/10.1186/s40478-018-0583-4)
- **Jose Antonio Lopez-Escamez**, Angel Batuecas-Caletrio, Alexandre Bisdorff. "Towards personalized medicine in Ménière's disease", *F1000Research*, 7 - [10.12688/f1000research.14417.1](https://doi.org/10.12688/f1000research.14417.1)
- Alice S Chen-Plotkin, Roger Albin, Roy Alcalay, Debra Babcock, Vikram Bajaj, Dubois Bowman, Alex Buko, Jesse Cedarbaum, Daniel Chelsky, Mark R Cookson, Ted M Dawson, Richard Dewey, Tatiana Foroud, Mark Frasier, Dwight German, Katrina Gwinn, Xuemei Huang, Catherine Kopil, Thomas Kremer, Shirley Lasch, Ken Marek, Jarrod A Marto, Kalpana Merchant, Brit Mollenhauer, Anna Naito, Judith Potashkin, Alyssa Reimer, Liana S Rosenthal, Rachel Saunders-Pullman, Clemens R Scherzer, Todd Sherer, Andrew Singleton, Margaret Sutherland, **Ines Thiele**, Marcel van der Brug, Kendall Van Keuren-Jensen, David Vaillancourt, David Walt, Andrew West, Jing Zhang. "Finding useful biomarkers for Parkinson's disease.", *Science Translational Medicine*, 10 - (454) - [10.1126/scitranslmed.aam6003](https://doi.org/10.1126/scitranslmed.aam6003)
- **Johannes Meiser**, Lisa Kraemer, **Christian Jaeger**, Henning Madry, Andreas Link, Philipp M. Lepper, **Karsten Hiller, Jochen G. Schneider.** "Itaconic acid indicates cellular but not systemic immune system activation", *Oncotarget*, 9 - (63) - 32098-107, [10.18632/oncotarget.25956](https://doi.org/10.18632/oncotarget.25956)
- **Julia Becker-Kettern, Nicole Paczia, Jean-Francois Conrotte**, Chenchen Zhu, Oliver Fiehn, **Paul P Jung**, Lars M Steinmetz, **Carole L Linster.** "NAD(P)HX repair deficiency causes central metabolic perturbations in yeast and human cells.", *Febs Journal*, 285 - (18) - 3376-3401, [10.1111/febs.14631](https://doi.org/10.1111/febs.14631)
- Maryam Chaib De Mares, Diego Javier Jimenez, Giorgia Palladino, Johanna Gutleben, **Laura A Lebrun, Emilie E L Muller, Paul Wilmes**, Detmer Sipkema, Jan Dirk van Elsas. "Expressed protein profile of a Tectomicrobium and other microbial symbionts in the marine sponge *Aplysina aerophoba* as evidenced by metaproteomics.", *Scientific Reports*, 8 - (1) - 11795, [10.1038/s41598-018-30134-0](https://doi.org/10.1038/s41598-018-30134-0)
- Soren Bellenberg, Antoine Buetti-Dinh, Vanni Galli, Olga Ilie, **Malte Herold**, Stephan Christel, Mariia Boretska, Igor V Pivkin, **Paul Wilmes**, Wolfgang Sand, Mario Vera, Mark Dopson. "Automated microscopical analysis of metal sulfide colonization by acidophilic microorganisms.", *Applied And Environmental Microbiology*, 84 - (20) - [10.1128/AEM.01835-18](https://doi.org/10.1128/AEM.01835-18)
- **Eugen Bauer, Ines Thiele.** "From metagenomic data to personalized in silico microbiotas: predicting dietary supplements for Crohn's disease.", *Npj Systems Biology And Applications*, 4 - (1) - 27, [10.1038/s41540-018-0063-2](https://doi.org/10.1038/s41540-018-0063-2)
- **Patrick May**, Simon Girard, Merle Harrer, **Dheeraj R. Bobbili**, Julian Schubert, Stefan Wolking, Felicitas Becker, Pamela Lachance-Touchette, Caroline Meloche, Micheline Gravel, Cristina E. Niturad, Julia Knaus, Carolien De Kovel, Mohamad Toliat, Anne Polvi, Michele Iacomino, Rosa Guerrero-López, Stéphanie Baulac, Carla Marini, Holger Thiele, Janine Altmüller, Kamel Jabbari, Ann Kathrin Ruppert, **Wiktor Jurkowski**, Dennis Lal, Raffaella Rusconi, Sandrine Cestèle, Benedetta Terragni, Ian D. Coombs, Christopher A. Reid, Pasquale Striano, Hande Caglayan, Auli Siren, Kate Everett, Rikke S. Møller, Helle Hjalgrim, Hiltrud Muhle, Ingo Helbig, Wolfram S. Kunz, Yvonne G. Weber, Sarah Weckhuysen, Peter De Jonghe, Sanjay M. Sisodiya, Rima Nabbout, Silvana Franceschetti, Antonietta Coppola, Maria S. Vari, Dorothée Kasteleijn-Nolst Trenité, Betul Baykan, Ugur Ozbek, Nerses Bebek, Karl M. Klein, Felix Rosenow, Dang K. Nguyen, François Dubeau, Lionel Carmant, Anne Lortie, Richard Desbiens, Jean François Clément, Cécile Cieuta-Walti, Graeme J. Sills, Pauls Auce, Ben Francis, Michael R. Johnson, Anthony G. Marson, Bianca Berghuis, Josemir W. Sander, Andreja Avbersek, Mark McCormack, Gianpiero L. Cavalleri, Norman Delanty, Chantal Depondt, Martin Krenn, Fritz Zimprich, **Sarah Peter**, Marina Nikanorova, Robert Kraaij, Jeroen van Rooij, **Rudi Balling**, M. Arfan Ikram, André G. Uitterlinden, Giuliano Avanzini, Stephanie Schorge, Steven Petrou, Massimo Mantegazza, Thomas Sander, Eric LeGuern, Jose M. Serratos, Bobby P.C. Koeleman, Aarno Palotie, Anna Elina Lehesjoki, Michael Nothnagel, Peter Nurnberg, Snezana Maljevic, Federico Zara, Patrick Cossette, **Roland Krause**, Holger Lerche. "Rare coding variants in genes encoding GABA A receptors in genetic generalised epilepsies: an exome-based case-control study", *Lancet Neurology*, 17 - (8) - 699-708, [10.1016/S1474-4422\(18\)30215-1](https://doi.org/10.1016/S1474-4422(18)30215-1)
- Nevenka Dudvarski Stankovic, Frank Bicker, Stefanie Keller, David Tw Jones, Patrick N Harter, Arne Kienzle, Clarissa Gillmann, Philipp Arnold, Anna Golebiewska, Olivier Keunen, Alf Giese, Andreas von Deimling, Tobias Bauerle, Simone P Niclou, **Michel Mittelbronn**, Weilan Ye, Stefan M Pfister, Mirko Hh

- Schmidt. "EGFL7 enhances surface expression of integrin alpha5beta1 to promote angiogenesis in malignant brain tumors.", *Embo Molecular Medicine*, 10 - (9) - [10.15252/emmm.201708420](https://doi.org/10.15252/emmm.201708420)
- Sonja Schibany, **Luise A K Kleine Borgmann**, Thomas C Rosch, Tobias Knust, Maximilian H Ulbrich, Peter L Graumann. "Single molecule tracking reveals that the bacterial SMC complex moves slowly relative to the diffusion of the chromosome.", *Nucleic Acids Research*, 46 - (15) - 7805-19, [10.1093/nar/gky581](https://doi.org/10.1093/nar/gky581)
  - Nina Meyer, Svenja Zielke, Jonas B Michaelis, Benedikt Linder, Verena Warnsmann, Stefanie Rakel, Heinz D Osiewacz, Simone Fulda, **Michel Mittelbronn**, Christian Munch, Christian Behrends, Donat Kogel. "AT 101 induces early mitochondrial dysfunction and HMOX1 (heme oxygenase 1) to trigger mitophagic cell death in glioma cells.", *Autophagy*, 14 - (10) - 1693-709, [10.1080/15548627.2018.1476812](https://doi.org/10.1080/15548627.2018.1476812)
  - **Johan Thunberg, Johan Markdahl, Florian Bernard, Jorge Goncalves**. "A lifting method for analyzing distributed synchronization on the unit sphere", *Automatica*, 96 - 253-258, [10.1016/j.automatica.2018.07.007](https://doi.org/10.1016/j.automatica.2018.07.007)
  - Magdalena Calusinska, Xavier Goux, Marie Fossepre, **Emilie E L Muller, Paul Wilmes**, Philippe Delfosse. "A year of monitoring 20 mesophilic full-scale bioreactors reveals the existence of stable but different core microbiomes in bio-waste and wastewater anaerobic digestion systems.", *Biotechnology For Biofuels*, 11 - (1) - 196, [10.1186/s13068-018-1195-8](https://doi.org/10.1186/s13068-018-1195-8)
  - Amy E Vincent, Hannah S Rosa, Kamil Pabis, Conor Lawless, Chun Chen, **Anne Grunewald**, Karolina A Rygiel, Mariana C Rocha, Amy K Reeve, Gavin Falkous, Valentina Perissi, Kathryn White, Tracey Davey, Basil J Petrof, Avan A Sayer, Cyrus Cooper, David Deehan, Robert W Taylor, Doug M Turnbull, Martin Picard. "Subcellular origin of mitochondrial DNA deletions in human skeletal muscle.", *Annals Of Neurology*, 84 - (2) - 289-301, [10.1002/ana.25288](https://doi.org/10.1002/ana.25288)
  - **Jens C Schwamborn**. "Is Parkinson's Disease a Neurodevelopmental Disorder and Will Brain Organoids Help Us to Understand It?", *Stem Cells And Development*, 27 - (14) - 968-975, [10.1089/scd.2017.0289](https://doi.org/10.1089/scd.2017.0289)
  - Mirta Borin, Claudia Saraceno, Marcella Catania, Erika Lorenzetto, Valeria Pontelli, Anna Paterlini, Silvia Fostinelli, Anna Avesani, Giuseppe Di Fede, Gianluigi Zanusso, Luisa Benussi, Giuliano Binetti, Simone Zorzan, Roberta Ghidoni, Mario Buffelli, **Silvia Bolognin**. "Rac1 activation links tau hyperphosphorylation and Abeta dysmetabolism in Alzheimer's disease.", *Acta Neuropathologica Communications*, 6 - (1) - 61, [10.1186/s40478-018-0567-4](https://doi.org/10.1186/s40478-018-0567-4)
  - Daniela Hartl, **Patrick May, Wei Gu**, Manuel Mayhaus, Sabrina Pichler, Christian Spaniol, **Enrico Glaab, Dheeraj Reddy Bobbili, Paul Antony, Sandra Koegelsberger**, Alexander Kurz, Timo Grimmer, Kevin Morgan, Badri N Vardarajan, Christiane Reitz, John Hardy, Jose Bras, Rita Guerreiro, **Rudi Balling, Jochen G Schneider**, Matthias Riemenschneider, AESG. "A rare loss-of-function variant of ADAM17 is associated with late-onset familial Alzheimer disease.", *Molecular Psychiatry*, 25 - (3) - 629-39, [10.1038/s41380-018-0091-8](https://doi.org/10.1038/s41380-018-0091-8)
  - Lin Wang, **Johan Markdahl**, Zhixin Liu, Xiaoming Hu. "Decentralized cooperative tracking subject to motion constraints", *Automatica*, 96 - 121-126, [10.1016/j.automatica.2018.06.037](https://doi.org/10.1016/j.automatica.2018.06.037)
  - **Satoshi Okawa**, Carmen Salto, **Srikanth Ravichandran**, Shanzheng Yang, Enrique M Toledo, Ernest Arenas, **Antonio Del Sol**. "Transcriptional synergy as an emergent property defining cell subpopulation identity enables population shift.", *Nature Communications*, 9 - (1) - 2595, [10.1038/s41467-018-05016-8](https://doi.org/10.1038/s41467-018-05016-8)
  - Asad Jan, Brandon Jansonius, Alberto Delaidelli, Forum Bhanshali, Yi Andy An, Nelson Ferreira, **Lisa M Smits**, Gian Luca Negri, **Jens C Schwamborn**, Poul H Jensen, Ian R Mackenzie, Stefan Taubert, Poul H Sorensen. "Activity of translation regulator eukaryotic elongation factor-2 kinase is increased in Parkinson disease brain and its inhibition reduces alpha synuclein toxicity.", *Acta Neuropathologica Communications*, 6 - (1) - 54, [10.1186/s40478-018-0554-9](https://doi.org/10.1186/s40478-018-0554-9)
  - **Andrzej Mizera**, Jun Pang, Hongyang Qu, Qixia Yuan. "Taming Asynchrony for Attractor Detection in Large Boolean Networks", *Ieee-Acm Transactions On Computational Biology And Bioinformatics*, 14 - (8) - [10.1109/TCBB.2018.2850901](https://doi.org/10.1109/TCBB.2018.2850901)
  - Henrike O Heyne, Tarjinder Singh, Hannah Stamberger, Rami Abou Jamra, Hande Caglayan, Dana Craiu, Peter De Jonghe, Renzo Guerrini, Katherine L Helbig, Bobby P C Koeleman, Jack A Kosmicki, Tarja Linnankivi, **Patrick May**, Hiltrud Muhle, Rikke S Moller, Bernd A Neubauer, Aarno Palotie, Manuela Pendziwiat, Pasquale Striano, Sha Tang, Sitao Wu, Annapurna Poduri, Yvonne G Weber, Sarah Weckhuysen, Sanjay M Sisodiya, Mark J Daly, Ingo Helbig, Dennis Lal, Johannes R Lemke, EuroEPINOMICS RES Consortium. "De novo variants in neurodevelopmental disorders with epilepsy.", *Nature Genetics*, 50 - (7) - 1048-1053, [10.1038/s41588-018-0143-7](https://doi.org/10.1038/s41588-018-0143-7)
  - **Atte Aalto**. "Convergence of discrete-time Kalman filter estimate to continuous-time estimate for systems with unbounded observation", *Mathematics Of Control Signals And Systems*, 30 - (3) - [10.1007/s00498-018-0214-4](https://doi.org/10.1007/s00498-018-0214-4)
  - **David Hoksza, Piotr Gawron, Marek Ostaszewski, Reinhard Schneider**. "MolArt: A molecular structure annotation and visualization tool.", *Bioinformatics*, 34 - (23) - 4127-8, [10.1093/bioinformatics/bty489](https://doi.org/10.1093/bioinformatics/bty489)
  - **Sarah Nicklas, Anna-Lena Hillje, Satoshi Okawa**, Ina-Maria Rudolph, Franziska Melanie Collmann, **Thea van Wuellen, Antonio Del Sol, Jens C Schwamborn**. "A complex of the ubiquitin ligase TRIM32 and the deubiquitinase USP7 balances the level of c-Myc ubiquitination and thereby determines neural stem cell fate specification.", *Cell Death And Differentiation*, 26 - (4) - 728-40, [10.1038/s41418-018-0144-1](https://doi.org/10.1038/s41418-018-0144-1)
  - Agnieszka J Szczepek, Lidia Frejo, Barbara Vona, Natalia Trpchevska, Christopher R Cederroth, Helena Caria, **Jose A Lopez-Escamez**. "Recommendations on Collecting and Storing Samples for Genetic Studies in Hearing and Tinnitus Research.", *Ear And Hearing*, 40 - (2) - 219-26, [10.1097/AUD.0000000000000614](https://doi.org/10.1097/AUD.0000000000000614)
  - Alexander Mazein, **Marek Ostaszewski**, Inna Kuperstein, Steven Watterson, Nicolas Le Novère, Diane Lefaudeux, Bertrand De Meulder, Johann Pelle, Irina Balaur, Mansoor Saqi, Maria Manuela Nogueira, Feng He, Andrew Parton, Nathanaël Lemonnier, **Piotr Gawron, Stephan Gebel**, Pierre Hainaut, Markus Ollert, Ugur Dogrusoz, Emmanuel Barillot, Andrei Zinovyev, **Reinhard Schneider, Rudi Balling**, Charles Auffray. "Systems medicine disease maps: community-driven comprehensive representation of disease mechanisms", *Npj Systems Biology And Applications*, 4 - (1) - 21, [10.1038/s41540-018-0059-y](https://doi.org/10.1038/s41540-018-0059-y)
  - Idil Hanci, Christoph Kamm, Marlieke Scholten, Lorenzo P. Roncoroni, Yvonne Weber, **Rejko Krüger**, Christian Plewnia, Alireza Gharabaghi, Daniel Weiss. "Long-term effect of GPI-DBS in a patient with generalized dystonia due to GLUT1 deficiency syndrome", *Frontiers In Neurology*, 9 - (MAY) - 381, [10.3389/fneur.2018.00381](https://doi.org/10.3389/fneur.2018.00381)
  - Samuel J Atkinson, Aleksander M Gontarczyk, Abdullah Aa Alghamdi, Tim S Ellison, Robert T Johnson, Wesley J Fowler, Benjamin M Kirkup, Bernardo C Silva, Bronwen E Harry, **Jochen G Schneider**, Katherine N Weilbaecher, Mette M Mogensen, Mark D Bass, Maddy Parsons, Dylan R Edwards, Stephen D Robinson. "The beta3-integrin endothelial adhesome regulates microtubule-dependent cell migration.", *Embo Reports*, 19 - (7) - [10.15252/embr.201744578](https://doi.org/10.15252/embr.201744578)
  - Peter Baumgarten, Johanna Quick-Weller, Florian Gessler, Marlies Wagner, Julia Tichy, Marie-Therese Forster, Christian Foerch, Volker Seifert, **Michel Mittelbronn**, Christian Senft. "Pre- and early postoperative GFAP serum levels in glioma and brain metastases.", *Journal Of Neuro-Oncology*, 139 - (3) - 541-546, [10.1007/s11060-018-2898-1](https://doi.org/10.1007/s11060-018-2898-1)
  - Jan-Philip Medelink, Kathleen Roensch, **Satoshi Okawa, Antonio Del Sol**, Osvaldo Chara, Levan Mchedlishvili, Elly M Tanaka. "Signaling-Dependent Control of Apical Membrane Size and Self-Renewal in Rosette-Stage Human Neuroepithelial Stem Cells.", *Stem Cell Reports*, 10 - (6) - 1751-65, [10.1016/j.stemcr.2018.04.018](https://doi.org/10.1016/j.stemcr.2018.04.018)

- **Anna Heintz-Buschart, Dilmurat Yusuf, Anne Kaysen, Alton Etheridge, Joelle V Fritz, Patrick May, Carine de Beaufort, Bimal B Upadhyaya, Anubrata Ghosal, David J Galas, Paul Wilmes.** "Small RNA profiling of low biomass samples: identification and removal of contaminants.", *Bmc Biology*, 16 - (1) - 52, [10.1186/s12915-018-0522-7](https://doi.org/10.1186/s12915-018-0522-7)
- Lisa Mader, Anna E Blank, David Capper, Janina Jansong, Peter Baumgarten, Naita M Wirsik, Cornelia Zachskorn, Jakob Ehlers, Michael Seifert, Barbara Klink, Stefan Liebner, Simone Niclou, Ulrike Naumann, Patrick N Harter, **Michel Mittelbronn.** "Pericytes/vessel-associated mural cells (VAMCs) are the major source of key epithelial-mesenchymal transition (EMT) factors SLUG and TWIST in human glioma.", *Oncotarget*, 9 - (35) - 24041-53, [10.18632/oncotarget.25275](https://doi.org/10.18632/oncotarget.25275)
- **Stefano Magni, Antonella Succurro, Alexander Skupin, Oliver Ebenhoh.** "Data-driven dynamical model indicates that the heat shock response in *Chlamydomonas reinhardtii* is tailored to handle natural temperature variation.", *Journal Of The Royal Society Interface*, 15 - (142) - [10.1098/rsif.2017.0965](https://doi.org/10.1098/rsif.2017.0965)
- Theo Brillatz, Chiara Lauritano, **Maxime Jacmin, Supitcha Khamma, Laurence Marcourt, Davide Righi, Giovanna Romano, Francesco Esposito, Adrianna Ianora, Emerson F Queiroz, Jean-Luc Wolfender, Alexander D Crawford.** "Zebrafish-based identification of the antiseizure nucleoside inosine from the marine diatom *Skeletonema marinoi*.", *Plos One*, 13 - (4) - e0196195, [10.1371/journal.pone.0196195](https://doi.org/10.1371/journal.pone.0196195)
- **Marek Ostaszewski, Stephan Gebel, Inna Kuperstein, Alexander Mazein, Andrei Zinovyev, Ugur Dogrusoz, Jan Hasenauer, Ronan M. T. Fleming, Nicolas Le Novère, Piotr Gawron, Thomas Ligon, Anna Niarakis, David Nickerson, Daniel Weindl, Rudi Balling, Emmanuel Barillot, Charles Auffray, Reinhard Schneider.** "Community-driven roadmap for integrated disease maps", *Briefings In Bioinformatics*, 20 - (2) - 659-70, [10.1093/bib/bby024](https://doi.org/10.1093/bib/bby024)
- Martin Falcke, **Mahsa Moein, Agne Tilunaite, Rüdiger Thul, Alexander Skupin.** "On the phase space structure of IP3 induced Ca<sup>2+</sup> signalling and concepts for predictive modeling", *Chaos*, 28 - (4) - 045115, [10.1063/1.5021073](https://doi.org/10.1063/1.5021073)
- Anne Grosse-Wilde, Rolf E Kuestner, Stephanie M Skelton, Ellie MacIntosh, **Aymeric Fouquier d'Herouel, Gokhan Ertaylan, Antonio Del Sol, Alexander Skupin, Sui Huang.** "Loss of inter-cellular cooperation by complete epithelial-mesenchymal transition supports favorable outcomes in basal breast cancer patients.", *Oncotarget*, 9 - (28) - 20018-20033, [10.18632/oncotarget.25034](https://doi.org/10.18632/oncotarget.25034)
- David Pamies, Anna Bal-Price, Christophe Chesne, Sandra Coecke, Andras Dinnyes, Chantra Eskes, Regina Grillari, Gerhard Gstraunthaler, Thomas Hartung, Paul Jennings, Marcel Leist, Ulrich Martin, Robert Passier, **Jens C Schwamborn, Glyn N Stacey, Heidrun Ellinger-Ziegelbauer, Mardas Daneshian.** "Advanced Good Cell Culture Practice for human primary, stem cell-derived and organoid models as well as microphysiological systems.", *Altex-Alternatives To Animal Experimentation*, 35 - (3) - 353-378, [10.14573/altex.1712221](https://doi.org/10.14573/altex.1712221)
- Lidia Frejo, Alvaro Gallego-Martinez, Teresa Requena, Eduardo Martin-Sanz, Juan Carlos Amor-Dorado, Andres Soto-Varela, Sofia Santos-Perez, Juan Manuel Espinosa-Sanchez, Angel Batuecas-Caletrio, Ismael Aran, Jesus Fraile, Marcos Rossi-Izquierdo, **Jose Antonio Lopez-Escamez.** "Proinflammatory cytokines and response to molds in mononuclear cells of patients with Meniere disease.", *Scientific Reports*, 8 - (1) - 5974, [10.1038/s41598-018-23911-4](https://doi.org/10.1038/s41598-018-23911-4)
- **Mahsa Moein, Kamil Grzyb, Teresa Goncalves Martins, Shinya Komoto, Francesca Peri, Alexander Crawford, Aymeric Fouquier d'Herouel, Alexander Skupin.** "CaSiAn: a Calcium Signaling Analyzer tool.", *Bioinformatics*, 34 - (17) - 3052-3054, [10.1093/bioinformatics/bty281](https://doi.org/10.1093/bioinformatics/bty281)
- Teresa Requena, Alvaro Gallego-Martinez, **Jose A Lopez-Escamez.** "Bioinformatic Integration of Molecular Networks and Major Pathways Involved in Mice Cochlear and Vestibular Supporting Cells.", *Frontiers In Molecular Neuroscience*, 11 - 108, [10.3389/fnmol.2018.00108](https://doi.org/10.3389/fnmol.2018.00108)
- Andrew E Laloo, Justin Wei, Dongbo Wang, **Shaman Narayanasamy, Inka Vanwonterghem, David Waite, Jason Steen, Anne Kaysen, Anna Heintz-Buschart, Qilin Wang, Benjamin Schulz, Amanda Nouwens, Paul Wilmes, Philip Hugenholtz, Zhiguo Yuan, Philip L Bond.** "Mechanisms of Persistence of the Ammonia-Oxidizing Bacteria *Nitrosomonas* to the Biocide Free Nitrous Acid.", *Environmental Science & Technology*, 52 - (9) - 5386-5397, [10.1021/acs.est.7b04273](https://doi.org/10.1021/acs.est.7b04273)
- Nikiforos A Alygizakis, Saer Samanipour, Juliane Hollender, Maria Ibanez, Sarit Kaserzon, Varvara Kokkali, Jan A van Leerdam, Jochen F Mueller, Martijn Pijnappels, Malcolm J Reid, **Emma L Schymanski, Jaroslav Slobodnik, Nikolaos S Thomaidis, Kevin V Thomas.** "Exploring the Potential of a Global Emerging Contaminant Early Warning Network through the Use of Retrospective Suspect Screening with High-Resolution Mass Spectrometry.", *Environmental Science & Technology*, 52 - (9) - 5135-5144, [10.1021/acs.est.8b00365](https://doi.org/10.1021/acs.est.8b00365)
- **Emilie E.L. Muller, Karoline Faust, Stefanie Widder, Malte Herold, Susana Martinez Arbas, Paul Wilmes.** "Using metabolic networks to resolve ecological properties of microbiomes", *Current Opinion In Systems Biology*, 8 - 73-80, [10.1016/j.coisb.2017.12.004](https://doi.org/10.1016/j.coisb.2017.12.004)
- **Johan Thunberg, Johan Markdahl, Jorge Gonçalves.** "Dynamic controllers for column synchronization of rotation matrices: A QR-factorization approach", *Automatica*, 93 - 20-25, [10.1016/j.automatica.2018.03.023](https://doi.org/10.1016/j.automatica.2018.03.023)
- **Eugen Bauer, Ines Thiele.** "From Network Analysis to Functional Metabolic Modeling of the Human Gut Microbiota.", *Msystems*, 3 - (3) - 1-13, [10.1128/mSystems.00209-17](https://doi.org/10.1128/mSystems.00209-17)
- Alvaro Gallego-Martinez, Juan Manuel Espinosa-Sanchez, **Jose Antonio Lopez-Escamez.** "Genetic contribution to vestibular diseases.", *Journal Of Neurology*, 265 - (Suppl 1) - 29-34, [10.1007/s00415-018-8842-7](https://doi.org/10.1007/s00415-018-8842-7)
- **Patrick May, Sabrina Pichler, Daniela Hartl, Dheeraj R. Bobbili, Manuel Mayhaus, Christian Spaniol, Alexander Kurz, Rudi Balling, Jochen G. Schneider, Matthias Riemenschneider.** "Rare ABCA7 variants in 2 German families with Alzheimer disease", *Neurology-Genetics*, 4 - (2) - e224, [10.1212/NXG.0000000000000224](https://doi.org/10.1212/NXG.0000000000000224)
- Stephen J Holland, Lesley M Berghuis, Justin J King, Lakshminarayan M Iyer, Katarzyna Sikora, Heather Fifield, **Sarah Peter, Emma M Quinlan, Fumiaki Sugahara, Prashant Shingate, Ines Trancoso, Norimasa Iwanami, Elena Temereva, Christine Strohmeier, Shigeru Kuratani, Byrappa Venkatesh, Guillaume Evanno, L Aravind, Michael Schorpp, Mani Larjani, Thomas Boehm.** "Expansions, diversification, and interindividual copy number variations of AID/APOBEC family cytidine deaminase genes in lampreys.", *Proceedings Of The National Academy Of Sciences Of The United States Of America*, 115 - (14) - E3211-E3220, [10.1073/pnas.1720871115](https://doi.org/10.1073/pnas.1720871115)
- David Capper, David T W Jones, Martin Sill, Volker Hovestadt, Daniel Schrimpf, Dominik Sturm, Christian Koelsche, Felix Sahn, Lukas Chavez, David E Reuss, Annkathrin Kratz, Annika K Wefers, Kristin Huang, Kristian W Pajtlar, Leonille Schweizer, Damian Stichel, Adriana Olar, Nils W Engel, Kerstin Lindenberg, Patrick N Harter, Anne K Braczynski, Karl H Plate, Hildegard Dohmen, Boyan K Garvalov, Roland Coras, Annett Holsken, Ekkehard Hewer, Melanie Bewerunge-Hudler, Matthias Schick, Roger Fischer, Rudi Beschorner, Jens Schittenhelm, Ori Staszewski, Khalida Wani, Pascale Varlet, Melanie Pages, Petra Temming, Dietmar Lohmann, Florian Selt, Hendrik Witt, Till Milde, Olaf Witt, Eleonora Aronica, Felice Giangaspero, Elisabeth Rushing, Wolfram Scheurlen, Christoph Geisenberger, Fausto J Rodriguez, Albert Becker, Matthias Preusser, Christine Haberler, Rolf Bjerkvig, Jane Cryan, Michael Farrell, Martina Deckert, Jurgen Hench, Stephan Frank, Jonathan Serrano, Kasthuri Kannan, Aristotelis Tsirogos, Wolfgang Bruck, Silvia Hofer, Stefanie Brehmer, Marcel Seiz-Rosenhagen, Daniel Hanggi, Volkmar Hans, Stephanie Rozsnoki, Jordan R Hansford, Patricia Kohlhof, Bjarne W Kristensen, Matt Lechner, Beatriz Lopes, Christian Mawrin, Ralf Ketter, Andreas Kulozik, Ziad Khatib, Frank Heppner, Arend Koch, Anne Jouvett, Catherine Keohane, Helmut Muhleisen, Wolf Mueller, Ute Pohl, Marco Prinz, Axel Benner, Marc Zapatka, Nicholas G Gottardo, Pablo Hernaiz Driever, Christof M Kramm, Hermann L Muller, Stefan Rutkowski, Katja von Hoff, Michael C Fruhwald, Astrid Gnekow, Gudrun Fleischhack, Stephan Tippelt, Gabriele Calaminus, Camelia-Maria Monoranu, Arie



- Perry, Chris Jones, Thomas S Jacques, Bernhard Radlwimmer, Marco Gessi, Torsten Pietsch, Johannes Schramm, Gabriele Schackert, Manfred Westphal, Guido Reifenberger, Pieter Wesseling, Michael Weller, Vincent Peter Collins, Ingmar Blumcke, Martin Bendszus, Jurgen Debus, Annie Huang, Nada Jabado, Paul A Northcott, Werner Paulus, Amar Gajjar, Giles W Robinson, Michael D Taylor, Zane Jaunmuktane, Marina Ryzhova, Michael Platten, Andreas Unterberg, Wolfgang Wick, Matthias A Karajannis, **Michel Mittelbronn**, Till Acker, Christian Hartmann, Kenneth Aldape, Ulrich Schuller, Rolf Buslei, Peter Lichter, Marcel Kool, Christel Herold-Mende, David W Ellison, Martin Hasselblatt, Matija Snuderl, Sebastian Brandner, Andrey Korshunov, Andreas von Deimling, Stefan M Pfister. "DNA methylation-based classification of central nervous system tumours.", *Nature*, 555 - (7697) - 469-74, [10.1038/nature26000](https://doi.org/10.1038/nature26000)
- **Paul P. Jung, Zhi Zhang, Nicole Paczia, Christian Jaeger, Tomasz Ignac, Patrick May, Carole L. Linster.** "Natural variation of chronological aging in the *Saccharomyces cerevisiae* species reveals diet-dependent mechanisms of life span control", *Npj Aging And Mechanisms Of Disease*, 4 - (1) - 3, [10.1038/s41514-018-0022-6](https://doi.org/10.1038/s41514-018-0022-6)
  - Nicole Salazar, Jeffrey C Carlson, Kexin Huang, Yayue Zheng, Cecilia Oderup, Julia Gross, Andrew D Jang, Thomas M Burke, Susanna Lewen, Alexander Scholz, Serina Huang, Leona Nease, Jon Kosek, **Michel Mittelbronn**, Eugene C Butcher, Hua Tu, Brian A Zabel. "A Chimeric Antibody against ACKR3/CXCR7 in Combination with TMZ Activates Immune Responses and Extends Survival in Mouse GBM Models.", *Molecular Therapy*, 26 - (5) - 1354-65, [10.1016/j.ymthe.2018.02.030](https://doi.org/10.1016/j.ymthe.2018.02.030)
  - **Srikanth Ravichandran**, Alessandro Michelucci, **Antonio Del Sol.** "Integrative Computational Network Analysis Reveals Site-Specific Mediators of Inflammation in Alzheimer's Disease.", *Frontiers In Physiology*, 9 - (MAR) - 154, [10.3389/fphys.2018.00154](https://doi.org/10.3389/fphys.2018.00154)
  - Eugénie Lhommée, Lars Wojtecki, Virginie Czernecki, Karsten Witt, Franziska Maier, Lisa Tonder, Lars Timmermann, Thomas D. Hälbig, Fanny Pineau, Franck Durif, Tatiana Witjas, Marcus Pinsker, Maximilian Mehdorn, Friederike Sixel-Döring, Andreas Kupsch, **Rejko Krüger**, Saskia Elben, Stephan Chabardès, Stéphane Thobois, Christine Brefel-Courbon, Fabienne Ory-Magne, Jean Marie Regis, David Maltête, Anne Sauvaget, Jörn Rau, Alfons Schnitzler, Michael Schüpbach, Carmen Schade-Brittinger, Gunther Deuschl, Jean Luc Houeto, Paul Krack, Velina Negovanska, Marie Laure Welter, Jean Christophe Corvol, Yves Agid, Soledad Navarro, Niklaus Meier, Andreas Hartmann, Helke Heseckamp, Philippe Cornu, Bettina Möller, Adelheid Nebel, Jan Raethjen, Karina Knudsen, Jens Volkmann, Daniela Falk, Steffen Paschen, Ingo Meister, Jens Kuhn, Kerstin Donner, Josef Kessler, Michael Barbe, Gereon Fink, Mohammad Maarouf, Andrea Kühn, Bianca Müller, Katharina Faust, Doreen Gruber, Gerd H. Schneider, Eric Seigneuret, Pierre Pollak, Valerie Fraix, Andrea Kistner, Olivier Rascol, Christophe Arbus, Lola Danet, Patrick Chaynes, Stefan J. Groiss, Christian Hartmann, Martin Südmeyer, Mahnaz Partowinia-Peters, Jan Vesper, Severine Ledily, Philippe Damier, Sylvie Raoul, Claudia Trenkwalder, Wenke Richter-Dreske, Tobias Wächter, Daniel Weiss, Alexandro Eusebio, Jean Philippe Azulay, Gustavo Polo, Serge Pinto, Johannes Levin, Stephanie Dornier, Fredy Pene, Delphine Hourton, Mathieu Quintin, Cecile Hoffart-Jourdain, Helene Brocvielle, Kerstin Balthasar, Meryem Stein, Susanne Harnisch, Alexander Reuss, Behnaz Aminossadati, Christian Nasemann, Wolfgang Oertel, Benoit Bataille, Dieter Hellwig, Alireza Gharabaghi. "Behavioural outcomes of subthalamic stimulation and medical therapy versus medical therapy alone for Parkinson's disease with early motor complications (EARLYSTIM trial): secondary analysis of an open-label randomised trial", *Lancet Neurology*, 17 - (3) - 223-231, [10.1016/S1474-4422\(18\)30035-8](https://doi.org/10.1016/S1474-4422(18)30035-8)
  - Tiina Murtola, **Ate Aalto**, Jarmo Malinen, Daniel Aalto, Martti Vainio. "Modal locking between vocal fold oscillations and vocal tract acoustics", *Acta Acustica United With Acustica*, 104 - (2) - 323-327, [10.3813/AAA.919175](https://doi.org/10.3813/AAA.919175)
  - P S Zeiner, J Zinke, D J Kowalewski, S Bernatz, J Tichy, M W Ronellenfitch, F Thorsen, A Berger, M T Forster, A Muller, J P Steinbach, R Beschorner, J Wischhusen, H M Kvasnicka, K H Plate, S Stefanovic, B Weide, **M Mittelbronn**, P N Harter. "CD74 regulates complexity of tumor cell HLA class II peptidome in brain metastasis and is a positive prognostic marker for patient survival.", *Acta Neuropathologica Communications*, 6 - (1) - 18, [10.1186/s40478-018-0521-5](https://doi.org/10.1186/s40478-018-0521-5)
  - **Pinar Alper**, Khalid Belhajjame, Vasa Curcin, Carole A. Goble. "Labelflow framework for annotating workflow provenance", *Informatics-Basel*, 5 - (1) - [10.3390/informatics5010011](https://doi.org/10.3390/informatics5010011)
  - Franz Maximilian Rasche, Ronny Rettig, Thomas Frese, Wilma Gertrud Rasche, Filip Barinka, Guenter Roesl, Frieder Keller, Tom H. Lindner, **Jochen G. Schneider**, Joachim Beige, Thomas Ebert, Stephan Schiekofer. "The Pituitary-Thyroid Axis and Prolactin Secretion in Hemodialysis Patients in Two Endemic Regions of Eastern Germany: Morphologic and laboratory abnormalities of the thyroid gland in CKD5D patients", *Experimental And Clinical Endocrinology & Diabetes*, 126 - (6) - 349-356, [10.1055/s-0043-123184](https://doi.org/10.1055/s-0043-123184)
  - Elizabeth Brunk, **Swagatika Sahoo**, Daniel C Zielinski, Ali Altunkaya, Andreas Drager, Nathan Mih, Francesco Gatto, Avlant Nilsson, **German Andres Preciat Gonzalez, Maïke Kathrin Aurich**, Andreas Prlic, Anand Sastry, **Anna D Danielsdottir, Almut Heinken, Alberto Noronha**, Peter W Rose, Stephen K Burley, **Ronan M T Fleming**, Jens Nielsen, **Ines Thiele**, Bernhard O Palsson. "Recon3D enables a three-dimensional view of gene variation in human metabolism.", *Nature Biotechnology*, 36 - (3) - 272-281, [10.1038/nbt.4072](https://doi.org/10.1038/nbt.4072)
  - Lisa Kramer, **Christian Jager, Jean-Pierre Trezzi**, Doris M Jacobs, Karsten Hiller. "Quantification of Stable Isotope Traces Close to Natural Enrichment in Human Plasma Metabolites Using Gas Chromatography-Mass Spectrometry.", *Metabolites*, 8 - (1) - [10.3390/metabo8010015](https://doi.org/10.3390/metabo8010015)
  - Marisa Flook, **Jose A. Lopez Escamez.** "Meniere's Disease: Genetics and the Immune System", *Current Otorhinolaryngology Reports*, 6 - (1) - 24-31, [10.1007/s40136-018-0182-8](https://doi.org/10.1007/s40136-018-0182-8)
  - Sylvie Delhalle, Sebastian F N Bode, **Rudi Balling**, Markus Ollert, Feng Q He. "A roadmap towards personalized immunology.", *Npj Systems Biology And Applications*, 4 - (1) - 9, [10.1038/s41540-017-0045-9](https://doi.org/10.1038/s41540-017-0045-9)
  - **Andreas Husch**, Mikkel V Petersen, Peter Gemmar, **Jorge Goncalves**, Niels Sunde, **Frank Hertel.** "Post-operative deep brain stimulation assessment: Automatic data integration and report generation.", *Brain Stimulation*, 11 - (4) - 863-866, [10.1016/j.brs.2018.01.031](https://doi.org/10.1016/j.brs.2018.01.031)
  - Pablo Roman-Naranjo, **Alvaro Gallego-Martinez, Jose A Lopez Escamez.** "Genetics of vestibular syndromes.", *Current Opinion In Neurology*, 31 - (1) - 105-110, [10.1097/WCO.0000000000000519](https://doi.org/10.1097/WCO.0000000000000519)
  - Stella Blasel, Rieke Vorwerk, Makoto Kiyose, **Michel Mittelbronn**, Uta Brunberg, Hanns Ackermann, Martin Voss, Patrick N Harter, Elke Hattingen. "New MR perfusion features in primary central nervous system lymphomas: pattern and prognostic impact.", *Journal Of Neurology*, 265 - (3) - 647-658, [10.1007/s00415-018-8737-7](https://doi.org/10.1007/s00415-018-8737-7)
  - Tanja Eisemann, Barbara Costa, Jens Strelau, **Michel Mittelbronn**, Peter Angel, Heike Peterziel. "An advanced glioma cell invasion assay based on organotypic brain slice cultures.", *Bmc Cancer*, 18 - (1) - 103, [10.1186/s12885-018-4007-4](https://doi.org/10.1186/s12885-018-4007-4)
  - Meng Hu, Erik Muller, **Emma L Schymanski**, Christoph Ruttkies, Tobias Schulze, Werner Brack, Martin Krauss. "Performance of combined fragmentation and retention prediction for the identification of organic micropollutants by LC-HRMS.", *Analytical And Bioanalytical Chemistry*, 410 - (7) - 1931-1941, [10.1007/s00216-018-0857-5](https://doi.org/10.1007/s00216-018-0857-5)
  - **S B Larsen, Z Hanss, R Kruger.** "The genetic architecture of mitochondrial dysfunction in Parkinson's disease.", *Cell And Tissue Research*, 373 - (1) - 21-37, [10.1007/s00441-017-2768-8](https://doi.org/10.1007/s00441-017-2768-8)
  - Jieqiang Wei, Silun Zhang, Antonio Adaldo, **Johan Thunberg**, Xiaoming Hu, Karl H. Johansson. "Finite-Time Attitude Synchronization with Distributed Discontinuous Protocols", *Ieee Transactions On Automatic Control*, 63 - (10) - 3608-3615, [10.1109/TAC.2018.2797179](https://doi.org/10.1109/TAC.2018.2797179)

- Mark McCormack, Hongsheng Gui, Andrés Ingason, Doug Speed, Galen EB Wright, Eunice J Zhang, Rodrigo Secolin, Clarissa Yasuda, Maxwell Kwok, Stefan Wolking, Felicitas Becker, Sarah Rau, Andreja Avbersek, Kristin Heggeli, Costin Leu, Chantal Depondt, Graeme J Sills, Anthony G Marson, Pauls Auce, Martin J Brodie, Ben Francis, Michael R Johnson, Bobby PC Koeleman, Pasquale Striano, Antonietta Coppola, Federico Zara, Wolfram S Kunz, Josemir W Sander, Holger Lerche, Karl Martin Klein, Sarah Weckhuysen, Martin Krenn, LÁrus J Gudmundsson, Kári Stefánsson, **Roland Krause**, Neil Shear, Colin JD Ross, Norman Delanty, Munir Pirmohamed, Bruce C Carleton, Fernando Cendes, Iscia Lopes-Cendes, Wei-ping Liao, Terence J O'Brien, Sanjay M Sisodiya, Stacey Cherny, Patrick Kwan, Larry Baum, Gianpiero L Cavalleri, EPIGEN Consortium, EpiPGX Consortium. "Genetic variation in CFH predicts phenytoin-induced maculopapular exanthema in European-descent patients", *Neurology*, 90 - (4) - E332-E341, [10.1212/WNL.0000000000004853](https://doi.org/10.1212/WNL.0000000000004853)
- Claudia Saraceno, Marcella Catania, Anna Paterlini, Silvia Fostinelli, Miriam Ciani, Roberta Zanardini, Giuliano Binetti, Giuseppe Di Fede, Paola Caroppo, Luisa Benussi, Roberta Ghidoni, **Silvia Bolognin**. "Altered Expression of Circulating Cdc42 in Frontotemporal Lobar Degeneration.", *Journal Of Alzheimers Disease*, 61 - (4) - 1477-1483, [10.3233/JAD-170722](https://doi.org/10.3233/JAD-170722)
- **Dheeraj R Bobbili**, Denis Lal, **Patrick May**, Eva M Reinthaler, Kamel Jabbari, Holger Thiele, Michael Nothnagel, **Wiktor Jurkowski**, Martha Feucht, Peter Nurnberg, Holger Lerche, Fritz Zimprich, **Roland Krause**, Bernd A Neubauer, Hannelore Steinbock, Birgit Neophytou, Julia Geldner, Ursula Gruber-Sedlmayr, Edda Haberlandt, Gabriel M Ronen, Janine Altmuller, Thomas Sander, **Rudi Balling**, **EUROEPINOMICS COGIE Consortium**, Eva M Reinthaler, Fritz Zimprich, Martha Feucht, Dennis Lal, Peter Nurnberg, Holger Thiele, **Roland Krause**, **Patrick May**, Holger Lerche, Bernd A Neubauer. "Exome-wide analysis of mutational burden in patients with typical and atypical Rolandic epilepsy.", *European Journal Of Human Genetics*, 26 - (2) - 258-264, [10.1038/s41431-017-0034-x](https://doi.org/10.1038/s41431-017-0034-x)
- Jigisha Anupama, Margherita Francescato, Farzana Rahman, Nazeefa Fatima, Dan DeBlasio, Avinash Kumar Shanmugam, **Venkata Satagopam**, Alberto Santos, Pandurang Kolekar, Magali Michaut, Emre Guney. "The ISCB Student Council Internship Program: Expanding computational biology capacity worldwide.", *Plos Computational Biology*, 14 - (1) - e1005802, [10.1371/journal.pcbi.1005802](https://doi.org/10.1371/journal.pcbi.1005802)
- Cian J Lynch, Raquel Bernad, Isabel Calvo, Sandrina Nobrega-Pereira, Sergio Ruiz, Nuria Ibarz, Ana Martinez-Val, Osvaldo Grana-Castro, Gonzalo Gomez-Lopez, Eduardo Andres-Leon, **Vladimir Espinosa Angarica**, **Antonio Del Sol**, Sagrario Ortega, Oscar Fernandez-Capetillo, Enrique Rojo, Javier Munoz, Manuel Serrano. "The RNA Polymerase II Factor RPAP1 Is Critical for Mediator-Driven Transcription and Cell Identity.", *Cell Reports*, 22 - (2) - 396-410, [10.1016/j.celrep.2017.12.062](https://doi.org/10.1016/j.celrep.2017.12.062)

## Report

- Theodore Alexandrov, Sebastian Böcker, Pieter Dorrestein, **Emma Schymanski**. "Computational Metabolomics: Identification, Interpretation, Imaging", *Dagstuhl Seminar 17491*, *Dagstuhl Reports*, 7 - (12) - [10.4230/DagRep.7.12.1](https://doi.org/10.4230/DagRep.7.12.1)

## 2017

### Book

- Wahid Ali, **Duong Pham Luu Trung**, Muhammad Abdul Qyyum, Alam Nawaz, Moonyong Lee. "Measuring the effect on chemical processes due to uncertain input states: Uncertainty-cum-sensitivity analysis using a gPC approach", *Computer Aided Chemical Engineering - Part of series 27th European Symposium on Computer Aided Process Engineering*, 40 - 439-444, [10.1016/B978-0-444-63965-3.50075-1](https://doi.org/10.1016/B978-0-444-63965-3.50075-1)
- **Carine E. de Beaufort**, Bernd Lehmann. "Regulatory Aspects of New Technology in Diabetes: Can Research Help Us?", *Research into Childhood-Onset Diabetes*, 183-192,
- **Carine E. de Beaufort**, Fergus Cameron, Hilary Hoey, Henrik B. Mortensen. "Hvidoere Study Group: What Can Be Learned from Observational Studies", *Research into Childhood-Onset Diabetes*, 55-64,
- Andrea Scaramuzza, **Carine de Beaufort**, Ragnar Hanas. "Research into childhood-onset diabetes: From study design to improved management", *Research into Childhood-Onset Diabetes: From Study Design to Improved Management*, 1-192, [10.1007/978-3-319-40242-0](https://doi.org/10.1007/978-3-319-40242-0)

### Book Series

- **Joachim Kutzera**, **Patrick May**. "Variant-DB: A tool for efficiently exploring millions of human genetic variants and their annotations", *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 10649 LNBI - 22-28, [10.1007/978-3-319-69751-2\\_3](https://doi.org/10.1007/978-3-319-69751-2_3)
- Marcos Da Silveira, Cédric Pruski, **Reinhard Schneider**. "Data Integration in the Life Sciences", [10.1007/978-3-319-69751-2](https://doi.org/10.1007/978-3-319-69751-2)
- **Vladimir Espinosa Angarica**, **Antonio Del Sol**. "Bioinformatics Tools for Genome-Wide Epigenetic Research.", *Neuroepigenomics in Aging and Disease*, 978 - 489-512, [10.1007/978-3-319-53889-1\\_25](https://doi.org/10.1007/978-3-319-53889-1_25)

### Conference Proceeding

- Ayush Tewari, Michael Zollhofer, Hyeongwoo Kim, Pablo Garrido, **Florian Bernard**, Patrick Perez, Christian Theobalt. "MoFA: Model-Based Deep Convolutional Face Autoencoder for Unsupervised Monocular Reconstruction", *Proceedings of the IEEE International Conference on Computer Vision*, 2017-October - 3735-3744, [10.1109/ICCV.2017.401](https://doi.org/10.1109/ICCV.2017.401)
- Lisa-Marie Neupert, **Patrick May**, Katja Kobow, Michael Nothnagel, Peter Nürnberg, Thomas Freiman, Patrick Harter, Karl-Martin Klein, Yvonne Weber, Ingmar Blümcke, Dennis Lal. "Discovery and pathogenicity assessment of neuropathology-associated gene variants", *Special Issue: 32nd International Epilepsy Congress Barcelona, Spain 2nd – 6th September 2017*, *Epilepsia*, 58 - (Issue Supplement S5) - S174, [10.1111/epi.13944](https://doi.org/10.1111/epi.13944)
- **Florian Bernard**, Frank R. Schmidt, **Johan Thunberg**, Daniel Cremers. "A combinatorial solution to non-rigid 3D shape-to-image matching", *Proceedings - 30th IEEE Conference on Computer Vision and Pattern Recognition, CVPR 2017*, 2017-January - 1436-1445, [10.1109/CVPR.2017.157](https://doi.org/10.1109/CVPR.2017.157)
- Bittenbring J.T., **Kaysen A.**, **Heintz-Buschart A.**, Graf N., Simon A., Franke K., **Wilmes P.**, **Schneider J.**. "Changes in the gastrointestinal microbiome during cancer treatments", *Jahrestagung Der Deutschen, Österreichischen Und Schweizerischen Gesellschaften Für Hämatologie Und Medizinische Onkologie*, Stuttgart, 29. September-3. Oktober 2017: Abstracts, *Oncology Research And Treatment*, 40 Suppl 3 - 41, [10.1159/000479566](https://doi.org/10.1159/000479566)
- **Dheeraj Bobbili**, **Patrick May**, **Rejko Krüger**. "Rare variant analysis of the PPM1 dataset to uncover the complex genetic architecture of Parkinson's disease", *Abstracts of the 21 International Congress of Parkinson's Disease and Movement Disorders*, *Movement Disorders*, 32 Suppl 2

- S1-S1079, [10.1002/mds.27087](https://doi.org/10.1002/mds.27087)

- Daniela Hartl, **Patrick May**, **Wei Gu**, Manuel Mayhaus, **Enrico Glaab**, **Paul Antony**, **Dheeraj Bobbili**, **Sandra Koeglsberger**, Sabrina Pichler, Christian Spaniol, Alexander Kurz, **Rudi Balling**, **Jochen Schneider**, Matthias Riemenschneider. "Identification of a rare gene variant that is associated with familial alzheimer disease and regulates app expression", *Alzheimers & Dementia*, 13 - (7) - P648, [10.1016/j.jalz.2017.06.758](https://doi.org/10.1016/j.jalz.2017.06.758)
- A. Kishore, M. Sturm, A. Sreelatha, S. Robert, S. Krishnan, M. Banerjee, O. Riess, P. Bauer, **R. Kruger**, T. Gasser, M. Sharma. "Understanding the role of LRRK2 in Indian population", *Abstracts of the 21 International Congress of Parkinson's Disease and Movement Disorders*, *Movement Disorders*, 32 Supplement S2 -
- **Andreas Husch**, Peter Gemmar, **Johan Thunberg**, **Frank Hertel**. "Integration of sparse electrophysiological measurements with preoperative MRI using 3D surface estimation in deep brain stimulation surgery", *Progress in Biomedical Optics and Imaging - Proceedings of SPIE*, 10135 - [10.1117/12.2255894](https://doi.org/10.1117/12.2255894)

## Editorial

- **Jonas Walter**, **Sarah Louise Nickels**, **Jens Christian Schwamborn**. "Human induced pluripotent stem cell-derived neuronal progenitors are a suitable and effective drug discovery model for neurological mtDNA disorders.", *Stem Cell Investigation*, 4 - (12) - 101, [10.21037/sci.2017.11.08](https://doi.org/10.21037/sci.2017.11.08)

## Journal

- **B.Y. Loulou Peisl**, **Emma L. Schymanski**, **Paul Wilmes**. "Dark matter in host-microbiome metabolomics: Tackling the unknowns - A review", *Analytica Chimica Acta*, 1037 - 13-27, [10.1016/j.aca.2017.12.034](https://doi.org/10.1016/j.aca.2017.12.034)
- Cornelis Blauwendraat, Demis A. Kia, Lasse Pihlstrøm, Ziv Gan-Or, Suzanne Lesage, J. Raphael Gibbs, Jinhui Ding, Roy N. Alcalay, Sharon Hassin-Baer, Alan M. Pittman, Janet Brooks, Connor Edsall, Sun Ju Chung, Stefano Goldwurm, Mathias Toft, Claudia Schulte, International Parkinson's Disease Genomics Consortium (IPDGC), **COURAGE-PD Consortium**, Dena Hernandez, Andrew B. Singleton, Mike A. Nalls, Alexis Brice, Sonja W. Scholz, Nicholas W. Wood. "Insufficient evidence for pathogenicity of SNCA His50Gln (H50Q) in Parkinson's disease", *Neurobiology Of Aging*, 64 - 159.e5-159.e8, [10.1016/j.neurobiolaging.2017.12.012](https://doi.org/10.1016/j.neurobiolaging.2017.12.012)
- Wahid Ali, **Pham Luu Trung Duong**, Mohd Shariq Khan, Mesfin Getu, Moonyong Lee. "Measuring the reliability of a natural gas refrigeration plant: Uncertainty propagation and quantification with polynomial chaos expansion based sensitivity analysis", *Reliability Engineering & System Safety*, 172 - 103-117, [10.1016/j.ress.2017.12.009](https://doi.org/10.1016/j.ress.2017.12.009)
- **Stefania Magnusdottir**, **Ines Thiele**. "Modeling metabolism of the human gut microbiome.", *Current Opinion In Biotechnology*, 51 - 90-96, [10.1016/j.copbio.2017.12.005](https://doi.org/10.1016/j.copbio.2017.12.005)
- Lidia Frejo, Teresa Requena, **Satoshi Okawa**, Alvaro Gallego-Martinez, Manuel Martinez-Bueno, Ismael Aran, Angel Batuecas-Caletrio, Jesus Benitez-Rosario, Juan M.Espinosa-Sanchez, Jesus José Fraile-Rodrigo, Ana Maria Garcia-Arumi, Rocio Honzalez-Aguado, Pedro Marques, Eduardo Martin-Sanz, Nicolas Perez-Fernandez, Paz Pérez-Vazquez, Herminio Perez-Garrigues, Sofia Santos-Perez, Andres Soto-Varela, Maria C. Tapia, Gabriel Trinidad-Ruiz, **Antonio del Sol**, Marta E. Alcaron Riquelme, **Jose A. Lopez-Escamez**. "Regulation of Fn14 Receptor and NF-κB Underlies Inflammation in Meniere's Disease", *Frontiers In Immunology*, 8 - (DEC) - 1739, [10.3389/fimmu.2017.01739](https://doi.org/10.3389/fimmu.2017.01739)
- Vidisha Singh, **Marek Ostaszewski**, George D Kalliolias, Gilles Chiochia, Robert Olaso, Elisabeth Petit-Teixeira, Tomas Helikar, Anna Niarakis. "Computational Systems Biology Approach for the Study of Rheumatoid Arthritis: From a Molecular Map to a Dynamical Model.", *Genomics And Computational Biology*, 4 - (1) - e100050, [10.18547/gcb.2018.vol4.iss1.e100050](https://doi.org/10.18547/gcb.2018.vol4.iss1.e100050)
- Johanna Wagner, Franca Vulinovič, **Anne Grünewald**, Marcus M. Unger, Jens C. Möller, Christine Klein, Patrick P. Michel, Vincent Ries, Wolfgang H. Oertel, Daniel Alvarez-Fischer. "Acylated and unacylated ghrelin confer neuroprotection to mesencephalic neurons", *Neuroscience*, 365 - 137-145, [10.1016/j.neuroscience.2017.09.045](https://doi.org/10.1016/j.neuroscience.2017.09.045)
- **Enrico Glaab**. "Computational systems biology approaches for Parkinson's disease.", *Cell And Tissue Research*, 373 - (1) - 91-109, [10.1007/s00441-017-2734-5](https://doi.org/10.1007/s00441-017-2734-5)
- Rodrigo P. Soares, Patrícia Xander, Adriana Oliveira Costa, Antonio Marcilla, Armando Menezes-Neto, Hernando Del Portillo, Kenneth Witwer, Marca Wauben, Esther Nolte-T Hoen, Martin Olivier, Miriã Ferreira Criado, Luis Lamberti P. da Silva, Munira Muhammad Abdel Baqui, Sergio Schenkman, Walter Colli, Maria Julia Manso Alves, Karen Spadari Ferreira, Rosana Puccia, Peter Nejsum, Kristian Riesbeck, Allan Stensballe, Eline Palm Hansen, Lorena Martin Jaular, Reidun Øvstebø, Laura de la Canal, Paolo Bergese, Vera Pereira-Chiocola, Michael W. Pfaffl, **Joëlle Fritz**, Yong Song Gho, Ana Claudia Torrecilhas. "Highlights of the São Paulo ISEV workshop on extracellular vesicles in cross-kingdom communication", *Journal Of Extracellular Vesicles*, 6 - (1) - 1407213, [10.1080/20013078.2017.1407213](https://doi.org/10.1080/20013078.2017.1407213)
- **Anna Heintz-Buschart**, **Paul Wilmes**. "Human Gut Microbiome: Function Matters.", *Trends In Microbiology*, 26 - (7) - 563-574, [10.1016/j.tim.2017.11.002](https://doi.org/10.1016/j.tim.2017.11.002)
- Johanna Nyffeler, Petra Chovancova, Xenia Dolde, Anna-Katharina Holzer, Vladimir Purvanov, Ilona Kindinger, Anna Kerins, David Higton, Steve Silvester, Barbara M A van Vugt-Lussenburg, **Enrico Glaab**, Bart van der Burg, Richard Maclennan, Daniel F Legler, Marcel Leist. "A structure-activity relationship linking non-planar PCBs to functional deficits of neural crest cells: new roles for connexins.", *Archives Of Toxicology*, 92 - (3) - 1225-1247, [10.1007/s00204-017-2125-4](https://doi.org/10.1007/s00204-017-2125-4)
- Stephan Christel, **Malte Herold**, Soren Bellenberg, Mohamed El Hajjami, Antoine Buetti-Dinh, Igor V Pivkin, Wolfgang Sand, **Paul Wilmes**, Ansgar Poetsch, Mark Dopson. "Multi-omics reveal the lifestyle of the acidophilic, mineral-oxidizing model species *Leptospirillum ferriphilum*(T).", *Applied And Environmental Microbiology*, 84 - (3) - e02091-17, [10.1128/AEM.02091-17](https://doi.org/10.1128/AEM.02091-17)
- Francois Le Guerroue, Franziska Eck, Jennifer Jung, Tatjana Starzetz, **Michel Mittelbronn**, Manuel Kaulich, Christian Behrends. "Autophagosomal Content Profiling Reveals an LC3C-Dependent Piecemeal Mitophagy Pathway", *Molecular Cell*, 68 - (4) - 786-796.e6, [10.1016/j.molcel.2017.10.029](https://doi.org/10.1016/j.molcel.2017.10.029)
- Hassan Salem, **Eugen Bauer**, Roy Kirsch, Aileen Berasategui, Michael Cripps, Benjamin Weiss, Ryuichi Koga, Kayoko Fukumori, Heiko Vogel, Takema Fukatsu, Martin Kaltenpoth. "Drastic Genome Reduction in an Herbivore's Pectinolytic Symbiont.", *Cell*, 171 - (7) - 1520-1531.e13, [10.1016/j.cell.2017.10.029](https://doi.org/10.1016/j.cell.2017.10.029)
- Marcel Kraemer, Marcin Krawczyk, Frank Grünhage, Frank Lammert, **Jochen Schneider**. "Increased VAP-1 concentration and activity are associated with liver fibrosis in chronic Hepatitis C: P063", *Clinical Chemistry And Laboratory Medicine*,
- Ronald Biemann, Philippe Lucarelli, Nguen Thanh-Phuong, Aurélien Ginolhac, Katrin Borucki, Thomas Sauter, **Jochen G. Schneider**, Berend Isermann. "Fat tissue specific microRNA expression in individuals with metabolic syndrome following lifestyle-induced weight loss: P100", *Clinical Chemistry And Laboratory Medicine*,

- Cristina Elena Niturad, Dorit Lev, Vera M Kalscheuer, Agnieszka Charzewska, **Julian Schubert**, Tally Lerman-Sagie, Hester Y Kroes, Renske Oegema, Monica Traverso, Nicola Specchio, Maria Lassota, Jamel Chelly, Odeya Bennett-Back, Nirit Carmi, Tal Koffler-Brill, Michele Iacomino, Marina Trivisano, Giuseppe Capovilla, Pasquale Striano, Magdalena Nawara, Sylwia Rzonca, Ute Fischer, Melanie Bienek, Corinna Jensen, Hao Hu, Holger Thiele, Janine Altmüller, **Roland Krause, Patrick May**, Felicitas Becker, **Rudi Balling**, Saskia Biskup, Stefan A Haas, Peter Nurnberg, Koen L I van Gassen, Holger Lerche, Federico Zara, Snezana Maljevic, Esther Leshinsky-Silver, **EuroEPINOMICS Consortium**. "Rare GABRA3 variants are associated with epileptic seizures, encephalopathy and dysmorphic features.", *Brain*, 140 - (11) - 2879-2894, [10.1093/brain/awx236](https://doi.org/10.1093/brain/awx236)
- Maria G Stathopoulou, Ting Xie, Daniela Ruggiero, Jerome Chatelin, Marc Rancier, George Weryha, Mary Jo Kurth, Alex-Ander Aldasoro Arguinano, Vesna Gorenjak, Alexandros M Petrelis, Georges Dagher, George Dedoussis, Panagiotis Deloukas, John Lamont, Janja Marc, Maurizio Simmaco, Ron H N van Schaik, Federico Innocenti, Jean-Louis Merlin, **Jochen Schneider**, Behrooz Ziad Alizadeh, Marina Ciullo, Sudha Seshadri, Sophie Visvikis-Siest, **VEGF Consortium**. "A transnational collaborative network dedicated to the study and applications of the vascular endothelial growth factor-A in medical practice: the VEGF Consortium.", *Clinical Chemistry And Laboratory Medicine*, 56 - (4) - 83-86, [10.1515/cclm-2017-0838](https://doi.org/10.1515/cclm-2017-0838)
- G. Winterer, **G. Androsova**, O. Bender, D. Boraschi, F. Borchers, T.B. Dschietzig, I. Feinkohl, P. Fletcher, J. Gallinat, D. Hadzidiakos, J.D. Haynes, F. Heppner, S. Hetzer, J. Hendrikse, B. Ittermann, I.M.J. Kant, A. Kraft, A. Krannich, **R. Krause**, S. Kühn, G. Lachmann, S.J.T. van Montfort, A. Müller, P. Nürnberg, K. Ofose, M. Pietsch, T. Pischon, J. Preller, E. Renzulli, K. Scheurer, **R. Schneider**, A.J.C. Slooter, C. Spies, E. Stamatakis, H.D. Volk, S. Weber, A. Wolf, F. Yürek, N. Zacharias. "Personalized risk prediction of postoperative cognitive impairment – rationale for the EU-funded BioCog project", *European Psychiatry*, 50 - 34-39, [10.1016/j.eurpsy.2017.10.004](https://doi.org/10.1016/j.eurpsy.2017.10.004)
- Lidia Santos Silva, Gernot Poschet, **Yannic Nonnenmacher**, Holger M Becker, **Sean Sapcariu**, Ann-Christin Gaupel, Magdalena Schlotter, Yonghe Wu, Niclas Kneisel, Martina Seiffert, Rudiger Hell, **Karsten Hiller**, Peter Lichter, Bernhard Radlwimmer. "Branched-chain ketoacids secreted by glioblastoma cells via MCT1 modulate macrophage phenotype.", *Embo Reports*, 18 - (12) - 2172-2185, [10.15252/embr.201744154](https://doi.org/10.15252/embr.201744154)
- **Kenneth W Ellens, Nils Christian, Charandeep Singh, Venkata P Satagopam, Patrick May, Carole L Linster**. "Confronting the catalytic dark matter encoded by sequenced genomes.", *Nucleic Acids Research*, 45 - (20) - 11495-514, [10.1093/nar/gkx937](https://doi.org/10.1093/nar/gkx937)
- **Emilie E L Muller, Shaman Narayanasamy, Myriam Zeimes, Cedric C Laczny, Laura A Lebrun, Malte Herold**, Nathan D Hicks, John D Gillece, James M Schupp, Paul Keim, **Paul Wilmes**. "First draft genome sequence of a strain belonging to the Zoogloea genus and its gene expression in situ.", *Standards In Genomic Sciences*, 12 - (1) - 64, [10.1186/s40793-017-0274-y](https://doi.org/10.1186/s40793-017-0274-y)
- Marlieke Scholten, Johannes Klemt, Melanie Heilbronn, Christian Plewnia, Bastiaan R Bloem, Friedemann Bunjes, **Rejko Kruger**, Alireza Gharabaghi, Daniel Weiss. "Effects of Subthalamic and Nigral Stimulation on Gait Kinematics in Parkinson's Disease.", *Frontiers In Neurology*, 8 - (OCT) - 543, [10.3389/fneur.2017.00543](https://doi.org/10.3389/fneur.2017.00543)
- Marie Ludwig, **Paul Wilmes**, Stefan Schrader. "Measuring soil sustainability via soil resilience.", *Science Of The Total Environment*, 626 - 1484-1493, [10.1016/j.scitotenv.2017.10.043](https://doi.org/10.1016/j.scitotenv.2017.10.043)
- Jiaxu Wang, Piroon Jenjaroenpun, Akshay Bhinge, **Vladimir Espinosa Angarica, Antonio Del Sol**, Intawat Nookaew, Vladimir A Kuznetsov, Lawrence W Stanton. "Single-cell gene expression analysis reveals regulators of distinct cell subpopulations among developing human neurons.", *Genome Research*, 27 - (11) - 1783-1794, [10.1101/gr.223313.117](https://doi.org/10.1101/gr.223313.117)
- **Andreas Husch**, Mikkel V Petersen, Peter Gemmar, **Jorge Goncalves, Frank Hertel**. "PaCER - A fully automated method for electrode trajectory and contact reconstruction in deep brain stimulation.", *Neuroimage-Clinical*, 17 - 80-9, [10.1016/j.nicl.2017.10.004](https://doi.org/10.1016/j.nicl.2017.10.004)
- Letizia Straniero, Valeria Rimoldi, Maura Samarani, Stefano Goldwurm, Alessio Di Fonzo, **Rejko Kruger**, Michela Deleidi, Massimo Aureli, Giulia Solda, Stefano Duga, Rosanna Asselta. "The GBAP1 pseudogene acts as a ceRNA for the glucocerebrosidase gene GBA by sponging miR-22-3p.", *Scientific Reports*, 7 - (1) - 12702, [10.1038/s41598-017-12973-5](https://doi.org/10.1038/s41598-017-12973-5)
- Wei Pan, Ye Yuan, Lennart Ljung, **Jorge Goncalves**, Guy Bart Stan. "Identification of Nonlinear State-Space Systems from Heterogeneous Datasets", *Ieee Transactions On Control Of Network Systems*, 5 - (2) - 737-747, [10.1109/TCNS.2017.2758966](https://doi.org/10.1109/TCNS.2017.2758966)
- **Jonathan Arias-Fuenzalida, Javier Jarazo, Xiaobing Qing, Jonas Walter, Gemma Gomez-Giro, Sarah Louise Nickels**, Holm Zaehres, Hans Robert Scholer, **Jens Christian Schwamborn**. "FACS-Assisted CRISPR-Cas9 Genome Editing Facilitates Parkinson's Disease Modeling.", *Stem Cell Reports*, 9 - (5) - 1423-31, [10.1016/j.stemcr.2017.08.026](https://doi.org/10.1016/j.stemcr.2017.08.026)
- Angelo Antonini, Werner Poewe, K. Ray Chaudhuri, Robert Jech, Barbara Pickut, Zvezdan Pirtošek, Jozsef Szasz, Francesc Valldeoriola, Christian Winkler, Lars Bergmann, Ashley Yegin, Koray Onuk, David Barch, Per Odin, Ene Amalia, Guy Arnold, Ovidiu Bajenaru, Bruno Bergmans, Kari Anne Bjornara, Jeff Blackie, Matthias Bode, Paul Bourgeois, Stephan Bohlhalter, Ioan Buraga, Pierre R. Burkhard, Philippe Busson, Matilde Calopa, Jesper Clausen, Erik Hvid Hansen, Luc Defebvre, Valerie Delvaux, Sophie Dethy, Espen Dietrichs, Oriol De Fabregues, Ransmayr Gerhard, Graziano Gusmaroli, Kirsten Hahn, Björn Hauptmann, Tove Henriksen, Jorge Hernandez-Vara, A. Jeanjean, Michaela Kaiserova, Jan Kassubek, Thomas Kimber, Spyridon Konitsiotis, **Rejko Krüger**, Jaime Kulisevsky, Jo Leenders, Christofer Lundqvist, F. Ory Magne, Pietro Marano, Ivan Milanov, Nicola Modugno, Anjum Misbahuddin, Martin Nevrlj, Zikos Panayiotis, Kenn Freddy Pedersen, Stephen W. Pedersen, Lacramioara Perju-Dumbrava, M. M. Ponsen, Bogdan O. Popescu, Michel Rijntjes, V. Puente, Christoph Redecker, Christoph Schrader, Mariachiara Sensi, Mihaela Simu, Cleanthe Spanaki, Alexander Storch, Anette Storstein, Volker Tomantschger, Chris van der Linden, T. van Laar, F. Viallet, Tatiana Witjas, Martin Wolz, Maurizio Zibetti, Michel Van Zandijcke. "Levodopa-carbidopa intestinal gel in advanced Parkinson's: Final results of the GLORIA registry", *Parkinsonism & Related Disorders*, 45 - 13-20, [10.1016/j.parkreldis.2017.09.018](https://doi.org/10.1016/j.parkreldis.2017.09.018)
- Ines Santolini, Roberta Celli, Milena Cannella, Tiziana Imbriglio, Michela Guiducci, Pasquale Parisi, Julian Schubert, Michele Iacomino, Federico Zara, Holger Lerche, **EuroEPINOMICS CoGIE Consortium**, Genetic Commission of Italian League Against Epilepsy (LICE), Slaviana Moyanova, Richard Teke Ngomba, Gilles van Luijckelaar, Giuseppe Battaglia, Valeria Bruno, Pasquale Striano, Ferdinando Nicoletti. "Alterations in the alpha2 delta ligand, thrombospondin-1, in a rat model of spontaneous absence epilepsy and in patients with idiopathic/genetic generalized epilepsies.", *Epilepsia*, [10.1111/epi.13898](https://doi.org/10.1111/epi.13898)
- **Jia Chen Hua**, Farzad Noorian, Duncan Moss, Philip H.W. Leong, Gemunu H. Gunaratne. "High-dimensional time series prediction using kernel-based Koopman mode regression", *Nonlinear Dynamics*, 90 - (3) - 1785-1806, [10.1007/s11071-017-3764-y](https://doi.org/10.1007/s11071-017-3764-y)
- **Johan Markdahl, Johan Thunberg, Jorge Goncalves**. "Almost Global Consensus on the n-Sphere", *Ieee Transactions On Automatic Control*, 63 - (6) - 1664-1675, [10.1109/TAC.2017.2752799](https://doi.org/10.1109/TAC.2017.2752799)
- Lena F Burbulla, Pingping Song, Joseph R Mazzulli, Enrico Zampese, Yvette C Wong, Sohee Jeon, David P Santos, Judith Blanz, Carolin D Obermaier, Chelsea Strojny, Jeffrey N Savas, Evangelos Kiskinis, Xiaoxi Zhuang, **Rejko Kruger**, D James Surmeier, Dimitri Krainc. "Dopamine oxidation mediates mitochondrial and lysosomal dysfunction in Parkinson's disease.", *Science*, 357 - (6357) - 1255-61, [10.1126/science.aam9080](https://doi.org/10.1126/science.aam9080)
- Merlijn van Rijswijk, Charlie Beirnaert, Christophe Caron, Marta Cascante, Victoria Dominguez, Warwick B Dunn, Timothy M D Ebbels, Franck Giacomoni, Alejandra Gonzalez-Beltran, Thomas Hankemeier, Kenneth Haug, Jose L Izquierdo-Garcia, Rafael C Jimenez, Fabien Jourdan, Namrata Kale, Maria I Klapa, Oliver Kohlbacher, Kairi Koort, Kim Kultima, Gildas Le Corquille, Nicholas K Moschonas, Steffen Neumann, Claire O'Donovan, Martin Reczko, Philippe

- Rocca-Serra, Antonio Rosato, Reza M Salek, Susanna-Assunta Sansone, **Venkata Satagopam**, Daniel Schober, Ruth Shimmo, Rachel A Spicer, Ola Spjuth, Etienne A Thevenot, Mark R Viant, Ralf J M Weber, Egon L Willighagen, Gianluigi Zanetti, Christoph Steinbeck. "The future of metabolomics in ELIXIR.", *F1000Research*, 6 - [10.12688/f1000research.12342.1](https://doi.org/10.12688/f1000research.12342.1)
- Julia C Fitzgerald, Alexander Zimprich, Daniel A Carvajal Berrio, Kevin M Schindler, Brigitte Maurer, Claudia Schulte, Christine Bus, Anne-Kathrin Hauser, Manuela Kubler, Rahel Lewin, **Dheeraj Reddy Bobbili**, Lisa M Schwarz, Evangelia Vartholomaïou, Kathrin Brockmann, Richard Wust, Johannes Madlung, Alfred Nordheim, Olaf Riess, L Miguel Martins, **Enrico Glaab**, **Patrick May**, Katja Schenke-Layland, Didier Picard, Manu Sharma, Thomas Gasser, **Rejko Kruger**. "Metformin reverses TRAP1 mutation-associated alterations in mitochondrial function in Parkinson's disease.", *Brain*, 140 - (9) - 2444-2459, [10.1093/brain/awx202](https://doi.org/10.1093/brain/awx202)
  - **Ganna Androsova**, **Roland Krause**, Mojgansadat Borghei, Merel Wassenaar, Pauls Auce, Andreja Avbersek, Felicitas Becker, Bianca Berghuis, Ellen Campbell, Antonietta Coppola, Ben Francis, Stefan Wolking, Gianpiero L Cavalleri, John Craig, Norman Delanty, Bobby P C Koeleman, Wolfram S Kunz, Holger Lerche, Anthony G Marson, Josemir W Sander, Graeme J Sills, Pasquale Striano, Federico Zara, Sanjay M Sisodiya, Chantal Depondt, EpiPGX Consortium. "Comparative effectiveness of antiepileptic drugs in patients with mesial temporal lobe epilepsy with hippocampal sclerosis.", *Epilepsia*, 58 - (10) - 1734-1741, [10.1111/epi.13871](https://doi.org/10.1111/epi.13871)
  - **Dmitry A Ravcheev**, **Ines Thiele**. "Comparative Genomic Analysis of the Human Gut Microbiome Reveals a Broad Distribution of Metabolic Pathways for the Degradation of Host-Synthesized Mucin Glycans and Utilization of Mucin-Derived Monosaccharides.", *Frontiers In Genetics*, 8 - (AUG) - 111, [10.3389/fgene.2017.00111](https://doi.org/10.3389/fgene.2017.00111)
  - Oliver Bähr, Stefanie Gross, Patrick N. Harter, Elmar Kirches, Christian Mawrin, Joachim P. Steinbach, **Michel Mittelbronn**. "ASA404, a vascular disrupting agent, as an experimental treatment approach for brain tumors", *Oncology Letters*, 14 - (5) - 5443-51, [10.3892/ol.2017.6832](https://doi.org/10.3892/ol.2017.6832)
  - **Anna Heintz-Buschart**, **Urvashi Pandey**, Tamara Wicke, Friederike Sixel-Döring, Annette Janzen, Elisabeth Sittig-Wiegand, Claudia Trenkwalder, Wolfgang H. Oertel, Brit Mollenhauer, **Paul Wilmes**. "The nasal and gut microbiome in Parkinson's disease and idiopathic rapid eye movement sleep behavior disorder", *Movement Disorders*, 33 - (1) - 88-98, [10.1002/mds.27105](https://doi.org/10.1002/mds.27105)
  - **Jean-Pierre Trezzi**, Sara Galozzi, **Christian Jaeger**, Katalin Barkovits, Kathrin Brockmann, Walter Maetzler, Daniela Berg, Katrin Marcus, Fay Betsou, **Karsten Hiller**, Brit Mollenhauer. "Distinct metabolomic signature in cerebrospinal fluid in early parkinson's disease.", *Movement Disorders*, 32 - (10) - 1401-1408, [10.1002/mds.27132](https://doi.org/10.1002/mds.27132)
  - **Xiaobing Qing**, **Jonas Walter**, **Javier Jarazo**, **Jonathan Arias-Fuenzalida**, **Anna-Lena Hillje**, **Jens C Schwamborn**. "CRISPR/Cas9 and piggyBac-mediated footprint-free LRRK2-G2019S knock-in reveals neuronal complexity phenotypes and alpha-Synuclein modulation in dopaminergic neurons.", *Stem Cell Research*, 24 - 44-50, [10.1016/j.scr.2017.08.013](https://doi.org/10.1016/j.scr.2017.08.013)
  - Sylvia Torres-Odio, Jana Key, Hans-Hermann Hoepken, Julia Canet-Pons, Lucie Valek, Bastian Roller, Michael Walter, Blas Morales-Gordo, David Meierhofer, Patrick N Harter, **Michel Mittelbronn**, Irmgard Tegeder, Suzana Gispert, Georg Auburger. "Progression of pathology in PINK1-deficient mouse brain from splicing via ubiquitination, ER stress, and mitophagy changes to neuroinflammation.", *Journal Of Neuroinflammation*, 14 - (1) - 154, [10.1186/s12974-017-0928-0](https://doi.org/10.1186/s12974-017-0928-0)
  - Drew Blount, **Peter Banda**, Christof Teuscher, Darko Stefanovic. "Feedforward Chemical Neural Network: An in Silico Chemical System That Learns XOR", *Artificial Life*, 23 - (3) - 295-317, [10.1162/ARTL\\_a\\_00233](https://doi.org/10.1162/ARTL_a_00233)
  - **Maïke K Aurich**, **Ronan M T Fleming**, **Ines Thiele**. "A systems approach reveals distinct metabolic strategies among the NCI-60 cancer cell lines.", *Plos Computational Biology*, 13 - (8) - e1005698, [10.1371/journal.pcbi.1005698](https://doi.org/10.1371/journal.pcbi.1005698)
  - **P. Kolber**, **C. Stallinger**, **R. Krüger**. "Update zur intensivierten Therapie des fortgeschrittenen idiopathischen Parkinson-Syndroms", *Nervenheilkunde*, 36 - (8) - 647-654,
  - Angela Armento, Elena I. Iliina, Tony Kaoma, Arnaud Muller, Laurent Vallar, Simone P. Niclou, Marcel A. Krüger, **Michel Mittelbronn**, Ulrike Naumann. "Carboxypeptidase E transmits its anti-migratory function in glioma cells via transcriptional regulation of cell architecture and motility regulating factors", *International Journal Of Oncology*, 51 - (2) - 702-714, [10.3892/ijo.2017.4051](https://doi.org/10.3892/ijo.2017.4051)
  - Olov Svartstrom, Johannes Alneberg, Nicolas Terrapon, Vincent Lombard, Ino de Bruijn, Jonas Malmsten, Ann-Marie Dalin, **Emilie El Muller**, **Pranjul Shah**, **Paul Wilmes**, Bernard Henrissat, Henrik Aspeborg, Anders F Andersson. "Ninety-nine de novo assembled genomes from the moose (*Alces alces*) rumen microbiome provide new insights into microbial plant biomass degradation.", *Isme Journal*, 11 - (11) - 2538-2551, [10.1038/ismej.2017.108](https://doi.org/10.1038/ismej.2017.108)
  - **Francisco J. Aragón Artacho**, **Ronan M.T. Fleming**, **Phan T. Vuong**. "Accelerating the DC algorithm for smooth functions", *Mathematical Programming*, 169 - (1) - 95-118, [10.1007/s10107-017-1180-1](https://doi.org/10.1007/s10107-017-1180-1)
  - Johanna Quick-Weller, Stephanie Tritt, Bedjan Behmanesh, **Michel Mittelbronn**, Andrea Spyrtantis, Nazife Dinc, Lutz Weise, Volker Seifert, Gerhard Marquardt, Thomas M Freiman. "Biopsies of pediatric brainstem lesions display low morbidity but strong impact on further treatment decisions.", *Journal Of Clinical Neuroscience*, 44 - 254-259, [10.1016/j.jocn.2017.06.028](https://doi.org/10.1016/j.jocn.2017.06.028)
  - **Sascha Jung**, **Vladimir Espinosa Angarica**, Miguel A Andrade-Navarro, Noel J Buckley, **Antonio Del Sol**. "Prediction of Chromatin Accessibility in Gene-Regulatory Regions from Transcriptomics Data.", *Scientific Reports*, 7 - (1) - 4660, [10.1038/s41598-017-04929-6](https://doi.org/10.1038/s41598-017-04929-6)
  - **Zuogong Yue**, **Johan Thunberg**, Wei Pan, Lennart Ljung, **Jorge Gonçalves**. "Linear Dynamic Network Reconstruction from Heterogeneous Datasets", *Ifac-Papersonline*, 50 - (1) - 10586-10591, [10.1016/j.ifacol.2017.08.1314](https://doi.org/10.1016/j.ifacol.2017.08.1314)
  - Le Quang Minh, **Pham Luu Trung Duong**, **Jorge Goncalves**, Ezra Kwok, Moonyong Lee. "A two-stage approach of multiplicative dimensional reduction and polynomial chaos for global sensitivity analysis and uncertainty quantification with a large number of process uncertainties", *Journal Of The Taiwan Institute Of Chemical Engineers*, 78 - 254-264, [10.1016/j.jtice.2017.06.012](https://doi.org/10.1016/j.jtice.2017.06.012)
  - Elena I Iliina, Angela Armento, Leticia Garea Sanchez, Marina Reichmeir, Yannick Braun, Cornelia Penski, David Capper, Felix Sahn, Lukas Jennewein, Patrick N Harter, Sven Zukunft, Ingrid Fleming, Dorothea Schulte, Francois Le Guerroue, Christian Behrends, Michael W Ronellenfitsch, Ulrike Naumann, **Michel Mittelbronn**. "Effects of soluble CPE on glioma cell migration are associated with mTOR activation and enhanced glucose flux.", *Oncotarget*, 8 - (40) - 67567-91, [10.18632/oncotarget.18747](https://doi.org/10.18632/oncotarget.18747)
  - **Miguel A P Oliveira**, **Rudi Balling**, Marten P Smidt, **Ronan M T Fleming**. "Embryonic development of selectively vulnerable neurons in Parkinson's disease.", *Npj Parkinsons Disease*, 3 - 21, [10.1038/s41531-017-0022-4](https://doi.org/10.1038/s41531-017-0022-4)
  - **Anne Kaysen**, **Anna Heintz-Buschart**, **Emilie E L Muller**, **Shaman Narayanasamy**, **Linda Wampach**, **Cedric C Laczny**, Norbert Graf, Arne Simon, Katharina Franke, Jorg Bittenbring, **Paul Wilmes**, **Jochen G Schneider**. "Integrated meta-omic analyses of the gastrointestinal tract microbiome in patients undergoing allogeneic hematopoietic stem cell transplantation.", *Translational Research*, 186 - 79-94.e1, [10.1016/j.trsl.2017.06.008](https://doi.org/10.1016/j.trsl.2017.06.008)

- **Amer Ashrafi, Pierre Garcia,** Heike Kollmus, Klaus Schughart, **Antonio Del Sol, Manuel Buttini, Enrico Glaab.** "Absence of regulator of G-protein signaling 4 does not protect against dopamine neuron dysfunction and injury in the mouse 6-hydroxydopamine lesion model of Parkinson's disease.", *Neurobiology Of Aging*, 58 - 30-33, [10.1016/j.neurobiolaging.2017.06.008](https://doi.org/10.1016/j.neurobiolaging.2017.06.008)
- **Rejko Kruger,** Paul Lingor, Triantafyllos Doskas, Johanna M L Henselmans, Erik H Danielsen, Oriol de Fabregues, Alessandro Stefani, Sven-Christian Sensken, Juan Carlos Parra, Koray Onuk, Ashley Yegin, Angelo Antonini. "An Observational Study of the Effect of Levodopa-Carbidopa Intestinal Gel on Activities of Daily Living and Quality of Life in Advanced Parkinson's Disease Patients.", *Advances In Therapy*, 34 - (7) - 1741-1752, [10.1007/s12325-017-0571-2](https://doi.org/10.1007/s12325-017-0571-2)
- **Wiebke M Wemheuer,** Arne Wrede, Walter J Schulz-Schaeffer. "Types and Strains: Their Essential Role in Understanding Protein Aggregation in Neurodegenerative Diseases.", *Frontiers In Aging Neuroscience*, 9 - (JUN) - 187, [10.3389/fnagi.2017.00187](https://doi.org/10.3389/fnagi.2017.00187)
- **German A. Preciat Gonzalez, Lemmer R. P. El Assal, Alberto Noronha, Ines Thiele, Hulda S. Haraldsdóttir, Ronan M. T. Fleming.** "Comparative evaluation of atom mapping algorithms for balanced metabolic reactions: Application to Recon 3D", *Journal Of Cheminformatics*, 9 - (1) - 39, [10.1186/s13321-017-0223-1](https://doi.org/10.1186/s13321-017-0223-1)
- **Ines Thiele, Catherine M. Clancy, Almut Heinken, Ronan M.T. Fleming.** "Quantitative systems pharmacology and the personalized drug-microbiota-diet axis", *Current Opinion In Systems Biology*, 4 - 43-52, [10.1016/j.coisb.2017.06.001](https://doi.org/10.1016/j.coisb.2017.06.001)
- Andrew S. Allen, Samuel F. Berkovic, Joshua Bridgers, Patrick Cossette, Dennis Dlugos, Michael P. Epstein, Tracy Glauser, David B. Goldstein, Erin L. Heinzen, Yu Jiang, Michael R. Johnson, Ruben Kuzniecky, Daniel H. Lowenstein, Anthony G. Marson, Heather C. Mefford, Terence J. O'Brien, Ruth Ottman, Steven Petrou, Slavé Petrovski, Annapurna Poduri, Zhong Ren, Ingrid E. Scheffer, Elliott Sherr, Quanli Wang, **Rudi Balling,** Nina Barisic, Stéphanie Baulac, Hande Caglayan, Dana Craiu, Peter De Jonghe, Christel Depienne, Renzo Guerrini, Ingo Helbig, Helle Hjalgrim, Dorota Hoffman-Zacharska, Johanna Jähn, Karl Martin Klein, Bobby Koeleman, Vladimir Komarek, **Roland Krause,** Eric Leguern, Anna Elina Lehesjoki, Johannes R. Lemke, Holger Lerche, Tarja Linnankivi, Carla Marini, **Patrick May,** Rikke S. Møller, Hiltrud Muhle, Deb Pal, Aarno Palotie, Felix Rosenow, Kaja Selmer, Jose M. Serratos, Sanjay Sisodiya, Ulrich Stephani, Katalin Sterbova, Pasquale Striano, Arvid Suls, Tiina Talvik, Sarah Von Spiczak, Yvonne Weber, Sarah Weckhuysen, Federico Zara, Bassel Abou-Khalil, Brian K. Alldredge, Dina Amrom, Eva Andermann. "Application of rare variant transmission disequilibrium tests to epileptic encephalopathy trio sequence data", *European Journal Of Human Genetics*, 25 - (7) - 894-899, [10.1038/ejhg.2017.61](https://doi.org/10.1038/ejhg.2017.61)
- Kay Seidel, Mohamed Bouzrou, Nina Heidemann, **Rejko Kruger,** Ludger Schols, Wilfred F A den Dunnen, Horst-Werner Korf, Udo Rub. "Involvement of the cerebellum in Parkinson disease and dementia with Lewy bodies.", *Annals Of Neurology*, 81 - (6) - 898-903, [10.1002/ana.24937](https://doi.org/10.1002/ana.24937)
- **Johan Thunberg, Florian Bernard, Jorge Goncalves.** "Distributed methods for synchronization of orthogonal matrices over graphs", *Automatica*, 80 - 243-252, [10.1016/j.automatica.2017.02.025](https://doi.org/10.1016/j.automatica.2017.02.025)
- Stephan Schiekofer, Marcus E Kleber, Winfried Maerz, Franz M Rasche, **Jochen G Schneider.** "The Proline 7 Substitution in the Preproneuropeptide Y Is Associated with Higher Hepatic Lipase Activity In Vivo.", *International Journal Of Endocrinology*, 2017 - 2869090, [10.1155/2017/2869090](https://doi.org/10.1155/2017/2869090)
- Franz Maximilian Rasche, Stephan Stoebe, Thomas Ebert, Silvana Feige, Andreas Hagendorff, Wilma Gertrud Rasche, Filip Barinka, Volker Busch, Ulrich Sack, **Jochen G. Schneider,** Stephan Schiekofer. "Modern peptide biomarkers and echocardiography in cardiac healthy haemodialysis patients", *Bmc Nephrology*, 18 - (1) - [10.1186/s12882-017-0589-3](https://doi.org/10.1186/s12882-017-0589-3)
- Michael Keck, **Ganna Androsova,** Fabio Gualtieri, Andreas Walker, Eva-Lotta von Ruden, Vera Russmann, Cornelia A Deeg, Stefanie M Hauck, **Roland Krause,** Heidrun Potschka. "A systems level analysis of epileptogenesis-associated proteome alterations.", *Neurobiology Of Disease*, 105 - 164-178, [10.1016/j.nbd.2017.05.017](https://doi.org/10.1016/j.nbd.2017.05.017)
- Katie C Hootman, **Jean-Pierre Trezzi, Lisa Kraemer,** Lindsay S Burwell, **Xiangyi Dong,** Kristin A Guertin, **Christian Jaeger,** Patrick J Stover, **Karsten Hiller,** Patricia A Cassano. "Erythritol is a pentose-phosphate pathway metabolite and associated with adiposity gain in young adults.", *Proceedings Of The National Academy Of Sciences Of The United States Of America*, 114 - (21) - E4233-E4240, [10.1073/pnas.1620079114](https://doi.org/10.1073/pnas.1620079114)
- **Niko Komin, Alexander Skupin.** "How to address cellular heterogeneity by distribution biology", *Current Opinion In Systems Biology*, 3 - 154-160, [10.1016/j.coisb.2017.05.010](https://doi.org/10.1016/j.coisb.2017.05.010)
- Cornelis Blauwendraat, Faraz Faghri, Lasse Pihlstrom, Joshua T Geiger, Alexis Elbaz, Suzanne Lesage, Jean-Christophe Corvol, **Patrick May,** Aude Nicolas, Yevgeniya Abramzon, Natalie A Murphy, J Raphael Gibbs, Mina Ryten, Raffaele Ferrari, Jose Bras, Rita Guerreiro, Julie Williams, Rebecca Sims, Steven Lubbe, Dena G Hernandez, Kin Y Mok, Laurie Robak, Roy H Campbell, Ekaterina Rogava, Bryan J Traynor, Ruth Chia, Sun Ju Chung, International Parkinson's Disease Genomics Consortium (IPDGC), **COURAGE-PD Consortium,** John A Hardy, Alexis Brice, Nicholas W Wood, Henry Houlden, Joshua M Shulman, Huw R Morris, Thomas Gasser, **Rejko Kruger,** Peter Heutink, Manu Sharma, Javier Simon-Sanchez, Mike A Nalls, Andrew B Singleton, Sonja W Scholz. "NeuroChip, an updated version of the NeuroX genotyping platform to rapidly screen for variants associated with neurological diseases.", *Neurobiology Of Aging*, 57 - 247.e9-247.e13, [10.1016/j.neurobiolaging.2017.05.009](https://doi.org/10.1016/j.neurobiolaging.2017.05.009)
- **Laura Gonzalez-Cano, Ingeborg Menzl, Johan Tisserand, Sarah Nicklas, Jens C Schwamborn.** "Parkinson's Disease-Associated Mutant LRRK2-Mediated Inhibition of miRNA Activity is Antagonized by TRIM32.", *Molecular Neurobiology*, 55 - (4) - 3490-8, [10.1007/s12035-017-0570-y](https://doi.org/10.1007/s12035-017-0570-y)
- **Linda Wampach, Anna Heintz-Buschart,** Angela Hogan, **Emilie E L Muller, Shaman Narayanasamy, Cedric C Laczny,** Luisa W Hugerth, Lutz Bindl, Jean Bottu, Anders F Andersson, **Carine de Beaufort, Paul Wilmes.** "Colonization and Succession within the Human Gut Microbiome by Archaea, Bacteria, and Microeukaryotes during the First Year of Life.", *Frontiers In Microbiology*, 8 - (MAY) - 738, [10.3389/fmicb.2017.00738](https://doi.org/10.3389/fmicb.2017.00738)
- Bertjan Broeksema, Magdalena Calusinska, Fintan McGee, Klaas Winter, Francesco Bongiovanni, Xavier Goux, **Paul Wilmes,** Philippe Delfosse, Mohammad Ghoniem. "ICoVeR - an interactive visualization tool for verification and refinement of metagenomic bins.", *Bmc Bioinformatics*, 18 - (1) - 233, [10.1186/s12859-017-1653-5](https://doi.org/10.1186/s12859-017-1653-5)
- **Eugen Bauer,** Johannes Zimmermann, **Federico Baldini, Ines Thiele,** Christoph Kaleta. "BacArena: Individual-based metabolic modeling of heterogeneous microbes in complex communities.", *Plos Computational Biology*, 13 - (5) - e1005544, [10.1371/journal.pcbi.1005544](https://doi.org/10.1371/journal.pcbi.1005544)
- **Kirsten Roomp,** Hjalti Kristinsson, Domitille Schvartz, Kumari Ubhayasekera, Ernest Sargsyan, Levon Manukyan, Azazul Chowdhury, Hannes Manell, **Venkata Satagopam,** Karlfried Groebe, **Reinhard Schneider,** Jonas Bergquist, Jean-Charles Sanchez, Peter Bergsten. "Combined lipidomic and proteomic analysis of isolated human islets exposed to palmitate reveals time-dependent changes in insulin secretion and lipid metabolism.", *Plos One*, 12 - (4) - e0176391, [10.1371/journal.pone.0176391](https://doi.org/10.1371/journal.pone.0176391)
- Tak W Mak, Melanie Grusdat, Gordon S Duncan, Catherine Dostert, **Yannic Nonnenmacher,** Maureen Cox, Carole Binsfeld, Zhenyue Hao, Anne Brustle, Momoe Isumi, **Christian Jager,** Ying Chen, Olaf Pinkenburg, Barbel Camara, Markus Ollert, Carsten Bindslev-Jensen, Vasilis Vasilou, Chiara Gorrini, Philipp A Lang, Michael Lohoff, Isaac S Harris, **Karsten Hiller,** Dirk Brenner. "Glutathione Primes T Cell Metabolism for Inflammation.", *Immunity*, 46 - (4) - 675-689, [10.1016/j.immuni.2017.03.019](https://doi.org/10.1016/j.immuni.2017.03.019)

- Athanasios D Spathis, Xenophon Asvos, Despina Zivara, Theodoros Karampelas, Stavros Topouzis, Zoe Cournia, **Xiaobing Qing**, Pavlos Alexakos, **Lisa M Smits**, Christina Dalla, Hardy J Rideout, **Jens Christian Schwamborn**, Constantin Tamvakopoulos, Demosthenes Fokas, Demetrios K Vassiliatis. "Nurr1:RXRalpha heterodimer activation as monotherapy for Parkinson's disease.", Proceedings Of The National Academy Of Sciences Of The United States Of America, 114 - (15) - 3999-4004, [10.1073/pnas.1616874114](https://doi.org/10.1073/pnas.1616874114)
- Ian Rowland, Glenn Gibson, **Almut Heinken**, Karen Scott, Jonathan Swann, **Ines Thiele**, Kieran Tuohy. "Gut microbiota functions: metabolism of nutrients and other food components.", European Journal Of Nutrition, 57 - (1) - 1-24, [10.1007/s00394-017-1445-8](https://doi.org/10.1007/s00394-017-1445-8)
- Teresa Santiago-Sim, Lindsay C Burrage, Frederic Ebstein, Mari J Tokita, Marcus Miller, Weimin Bi, Alicia A Braxton, Jill A Rosenfeld, Maher Shahrour, Andrea Lehmann, Benjamin Cogne, Sebastien Kury, Thomas Besnard, Bertrand Isidor, Stephane Bezieau, Isabelle Hazart, Honey Nagakura, LaDonna L Immken, Rebecca O Littlejohn, Elizabeth Roeder, Bulent Kara, **EuroEPINOMICS RES Consortium Autosomal Recessive working group**, Katia Hardies, Sarah Weckhuysen, **Patrick May**, Johannes R Lemke, Orly Elpeleg, Bassam Abu-Libdeh, Kiely N James, Jennifer L Silhavy, Mahmoud Y Issa, Maha S Zaki, Joseph G Gleeson, John R Seavitt, Mary E Dickinson, M Cecilia Ljungberg, Sara Wells, Sara J Johnson, Lydia Teboul, Christine M Eng, Yaping Yang, Peter-Michael Kloetzel, Jason D Heaney, Magdalena A Walkiewicz. "Biallelic Variants in OTUD6B Cause an Intellectual Disability Syndrome Associated with Seizures and Dysmorphic Features.", American Journal Of Human Genetics, 100 - (4) - 676-688, [10.1016/j.ajhg.2017.03.001](https://doi.org/10.1016/j.ajhg.2017.03.001)
- Alessandra Zanon, Sreehari Kalvakuri, Aleksandar Rakovic, Luisa Foco, Marianna Guida, Christine Schwienbacher, Alice Serafin, Franziska Rudolph, Michaela Trilck, **Anne Grunewald**, Nancy Stanslowsky, Florian Wegner, Valentina Giorgio, Alexandros A Lavdas, Rolf Bodmer, Peter P Pramstaller, Christine Klein, Andrew A Hicks, Irene Pichler, Philip Seibler. "SLP-2 interacts with Parkin in mitochondria and prevents mitochondrial dysfunction in Parkin-deficient human iPSC-derived neurons and Drosophila.", Human Molecular Genetics, 26 - (13) - 2412-25, [10.1093/hmg/ddx132](https://doi.org/10.1093/hmg/ddx132)
- Alessio Peracchi, Maria Veiga-da-Cunha, Tomiko Kuhara, **Kenneth W Ellens**, **Nicole Paczia**, Vincent Stroobant, Agnieszka K Seliga, Simon Marlaire, Stephane Jaisson, Guido T Bommer, Jin Sun, Kay Huebner, **Carole L Linster**, Arthur J L Cooper, Emile Van Schaftingen. "Nit1 is a metabolite repair enzyme that hydrolyzes deaminated glutathione.", Proceedings Of The National Academy Of Sciences Of The United States Of America, 114 - (16) - E3233-E3242, [10.1073/pnas.1613736114](https://doi.org/10.1073/pnas.1613736114)
- Carla Marini, Katia Hardies, Tiziana Pisano, **Patrick May**, Sarah Weckhuysen, Elena Cellini, Arvid Suls, Davide Mei, **Rudi Balling**, Peter D. Jonghe, Ingo Helbig, Domenico Garozzo, Renzo Guerrini, Zaid Afawi, Nina Barišić, Stéphanie Baulac, Eva H. Brilstra, Hande Caglayan, Craiu Dana, Gerard Hageman, Hjalgrim Helle, Johanna Jähn, Karl Martin Klein, Eric Leguern, Johannes R. Lemke, Rikke S. Møller, Hiltrud Muhle, Felix Rosenow, Jose Serratos, Jurgen H. Schelhaas, Katalin Sterbova, Sarah von Spiczak, Elzbieta Szczepanik, Uluc Yis, Holger Lerche, Pasquale Striano, Yvonne Weber, Federico Zara. "Recessive mutations in SLC35A3 cause early onset epileptic encephalopathy with skeletal defects", American Journal Of Medical Genetics Part A, 173 - (4) - 1119-1123, [10.1002/ajmg.a.38112](https://doi.org/10.1002/ajmg.a.38112)
- **Johan Markdahl**, Jens Hoppe, Lin Wang, Xiaoming Hu. "A geodesic feedback law to decouple the full and reduced attitude", Systems & Control Letters, 102 - 32-41, [10.1016/j.sysconle.2017.01.005](https://doi.org/10.1016/j.sysconle.2017.01.005)
- **Anna S Monzel**, **Lisa M Smits**, **Kathrin Hemmer**, **Siham Hachi**, **Edinson Lucumi Moreno**, **Thea van Wuellen**, **Javier Jarazo**, **Jonas Walter**, **Inga Bruggemann**, **Ibrahim Boussaad**, **Emanuel Berger**, **Ronan M T Fleming**, **Silvia Bolognin**, **Jens C Schwamborn**. "Derivation of Human Midbrain-Specific Organoids from Neuroepithelial Stem Cells.", Stem Cell Reports, 8 - (5) - 1144-54, [10.1016/j.stemcr.2017.03.010](https://doi.org/10.1016/j.stemcr.2017.03.010)
- Michael C Burger, Iris C Mildener, Marlies Wagner, **Michel Mittelbronn**, Joachim P Steinbach, Oliver Bahr. "Bevacizumab for Patients with Recurrent Gliomas Presenting with a Gliomatosis Cerebri Growth Pattern.", International Journal Of Molecular Sciences, 18 - (4) - [10.3390/ijms18040726](https://doi.org/10.3390/ijms18040726)
- Matthias S Leisegang, Christian Fork, Ivana Josipovic, Florian Richter, Jens Preussner, Jiong Hu, Matthew J Miller, Jeremy N Epah, Patrick Hofmann, Stefan Gunther, Franziska Moll, Chanil Valasarajan, Juliana Heidler, Yuliya Ponomareva, Thomas M Freiman, Lars Maegdefessel, Karl H Plate, **Michel Mittelbronn**, Shizuka Uchida, Carsten Kunne, Konstantinos Stellos, Ralph T Schermuly, Norbert Weissmann, Kavi Devraj, Ilka Wittig, Reinier A Boon, Stefanie Dimmeler, Soni S Pullamsetti, Mario Looso, Francis J Miller, Ralf P Brandes. "Long Noncoding RNA MANTIS Facilitates Endothelial Angiogenic Function.", Circulation, 136 - (1) - 65-79, [10.1161/CIRCULATIONAHA.116.026991](https://doi.org/10.1161/CIRCULATIONAHA.116.026991)
- **Rejko Kruger**, Jochen Klucken, Daniel Weiss, Lars Tonges, **Pierre Kolber**, Stefan Unterecker, Michael Lorrain, Horst Baas, Thomas Muller, Peter Riederer. "Classification of advanced stages of Parkinson's disease: translation into stratified treatments.", Journal Of Neural Transmission, 124 - (8) - 1015-27, [10.1007/s00702-017-1707-x](https://doi.org/10.1007/s00702-017-1707-x)
- Franz Maximilian Rasche, Claudia Joel, Thomas Ebert, Thomas Frese, Filip Barinka, Volker Busch, Wilma Gertrud Rasche, Tom H. Lindner, **Jochen Schneider**, Stephan Schiekofer. "Dual RAAS Blockade with Aliskiren in Patients with Severely Impaired Chronic Kidney Disease", Experimental And Clinical Endocrinology & Diabetes, 126 - (1) - 39-52, [10.1055/s-0043-106440](https://doi.org/10.1055/s-0043-106440)
- C Delierneux, N Donis, L Servais, O Wera, C Lecut, M Vandereyken, L Musumeci, S Rahmouni, **J Schneider**, J A Eble, P Lancellotti, C Oury. "Targeting of C-type lectin-like receptor 2 or P2Y12 for the prevention of platelet activation by immunotherapeutic CpG oligodeoxynucleotides.", Journal Of Thrombosis And Haemostasis, 15 - (5) - 983-997, [10.1111/jth.13669](https://doi.org/10.1111/jth.13669)
- **Sascha Herzinger**, **Wei Gu**, **Venkata Satagopam**, **Serge Eifes**, **Kavita Rege**, **Adriano Barbosa Da Silva**, **Reinhard Schneider**. "SmartR: An open-source platform for interactive visual analytics for translational research data.", Bioinformatics, 33 - (14) - 2229-2231, [10.1093/bioinformatics/btx137](https://doi.org/10.1093/bioinformatics/btx137)
- **Carole Sousa**, Knut Biber, **Alessandro Michelucci**. "Cellular and molecular characterization of microglia: A unique immune cell population", Frontiers In Immunology, 8 - (MAR) - 198, [10.3389/fimmu.2017.00198](https://doi.org/10.3389/fimmu.2017.00198)
- Anchel De Jaime-Soguero, Francesco Aulicino, Gokhan Ertaylan, Anna Griego, Aniello Cerrato, Aravind Tallam, **Antonio Del Sol**, Maria Pia Cosma, Frederic Lluis. "Wnt/Tcf1 pathway restricts embryonic stem cell cycle through activation of the Ink4/Arf locus.", Plos Genetics, 13 - (3) - e1006682, [10.1371/journal.pgen.1006682](https://doi.org/10.1371/journal.pgen.1006682)
- **Sascha Jung**, **Andras Hartmann**, **Antonio Del Sol**. "RefBool: a reference-based algorithm for discretizing gene expression data.", Bioinformatics, 33 - (13) - 1953-1962, [10.1093/bioinformatics/btx111](https://doi.org/10.1093/bioinformatics/btx111)
- **Jean-Pierre Trezzi**, **Christian Jager**, Sara Galozzi, Katalin Barkovits, Katrin Marcus, Brit Mollenhauer, **Karsten Hiller**. "Metabolic profiling of body fluids and multivariate data analysis.", Methodsx, 4 - 95-103, [10.1016/j.mex.2017.02.004](https://doi.org/10.1016/j.mex.2017.02.004)
- **Florian Bernard**, **Luis Salamanca**, **Johan Thunberg**, Alexander Tack, Dennis Jentsch, Hans Lamecker, Stefan Zachow, **Frank Hertel**, **Jorge Goncalves**, Peter Gemmar. "Shape-aware surface reconstruction from sparse 3D point-clouds.", Medical Image Analysis, 38 - 77-89, [10.1016/j.media.2017.02.005](https://doi.org/10.1016/j.media.2017.02.005)
- Juan Miguel Cejuela, Aleksandar Bojchevski, Carsten Uhlig, Rustem Bekmukhametov, Sanjeev Kumar Karn, Shpend Mahmuti, Ashish Baghudana, Ankit Dubey, **Venkata P Satagopam**, Burkhard Rost. "nala: text mining natural language mutation mentions.", Bioinformatics, 33 - (12) - 1852-8, [10.1093/bioinformatics/btx083](https://doi.org/10.1093/bioinformatics/btx083)
- Prashant K Singh, Patrick R van den Berg, Mark D Long, Angie Vreugdenhil, Laurie Grieshaber, Heather M Ochs-Balcom, Jianmin Wang, **Sylvie Delcambre**, Sami Heikkinen, Carsten Carlberg, Moray J Campbell, Lara E Sucheston-Campbell. "Integration of VDR genome wide binding and GWAS genetic variation

- data reveals co-occurrence of VDR and NF-kappaB binding that is linked to immune phenotypes.", *Bmc Genomics*, 18 - (1) - 132, [10.1186/s12864-017-3481-4](https://doi.org/10.1186/s12864-017-3481-4)
- Karen Grutz, Philip Seibler, Anne Weissbach, Katja Lohmann, Francesca A Carlisle, Derek J Blake, Ana Westenberger, Christine Klein, **Anne Grunewald**. "Faithful SGCE imprinting in iPSC-derived cortical neurons: an endogenous cellular model of myoclonus-dystonia.", *Scientific Reports*, 7 - 41156, [10.1038/srep41156](https://doi.org/10.1038/srep41156)
  - **Antonio Del Sol**, Hans J Thiesen, Jaime Imitola, Rafael E Carazo Salas. "Big-Data-Driven Stem Cell Science and Tissue Engineering: Vision and Unique Opportunities.", *Cell Stem Cell*, 20 - (2) - 157-160, [10.1016/j.stem.2017.01.006](https://doi.org/10.1016/j.stem.2017.01.006)
  - **Marc Mac Giolla Eain, Joanna Baginska, Kacy Greenhalgh, Joëlle V. Fritz**, Frederic Zenhausem, **Paul Wilmes**. "Engineering Solutions for Representative Models of the Gastrointestinal Human-Microbe Interface", *Engineering*, 3 - (1) - 60-65, [10.1016/J.ENG.2017.01.011](https://doi.org/10.1016/J.ENG.2017.01.011)
  - **Hulda S Haraldsdottir**, Ben Cousins, **Ines Thiele, Ronan M T Fleming**, Santosh Vempala. "CHRR: Coordinate hit-and-run with rounding for uniform sampling of constraint-based models.", *Bioinformatics*, 33 - (11) - 1741-1743, [10.1093/bioinformatics/btx052](https://doi.org/10.1093/bioinformatics/btx052)
  - **Joyeeta Rahman, Alberto Noronha, Ines Thiele, Shamima Rahman**. "Leigh Map: A Novel Computational Diagnostic Resource for Mitochondrial Disease.", *Annals Of Neurology*, 81 - (1) - 9-16, [10.1002/ana.24835](https://doi.org/10.1002/ana.24835)
  - **Charandeep Singh, Enrico Glaab, Carole L. Linster**. "Molecular identification of D-ribulokinase in budding yeast and mammals", *Journal Of Biological Chemistry*, 292 - (3) - 1005-28, [10.1074/jbc.M116.760744](https://doi.org/10.1074/jbc.M116.760744)
  - Ding Ma, Laurence Yang, **Ronan M T Fleming, Ines Thiele**, Bernhard O Palsson, Michael A Saunders. "Reliable and efficient solution of genome-scale models of Metabolism and macromolecular Expression.", *Scientific Reports*, 7 - 40863, [10.1038/srep40863](https://doi.org/10.1038/srep40863)
  - **Srikanth Ravichandran, Antonio Del Sol**. "Identifying niche mediated regulatory factors of stem cell phenotypic state: a systems biology approach.", *Febs Letters*, 591 - (3) - 560-9, [10.1002/1873-3468.12559](https://doi.org/10.1002/1873-3468.12559)
  - **Laurent Heirendt, Ines Thiele, Ronan M T Fleming**. "DistributedFBA.jl: High-level, high-performance flux balance analysis in Julia.", *Bioinformatics*, 33 - (9) - 1421-3, [10.1093/bioinformatics/btw838](https://doi.org/10.1093/bioinformatics/btw838)
  - **Laurent Mombaerts, Alexandre Mauroy, Jorge Gonçalves**. "Optimising time-series experimental design for modelling of circadian rhythms: the value of transient data", *Ifac-Papersonline*, 49 - (26) - 109-113, [10.1016/j.ifacol.2016.12.111](https://doi.org/10.1016/j.ifacol.2016.12.111)

## 2016

### Book

- **Almut Heinken, Dmitry A. Ravcheev, Ines Thiele**. "Systems biology of bacteria-host interactions", *The Human Microbiota and Chronic Disease: Dysbiosis as a Cause of Human Pathology*, 113-137, [10.1002/9781118982907.ch7](https://doi.org/10.1002/9781118982907.ch7)
- **Sylvie Delcambre, Yannic Nonnenmacher, Karsten Hiller**. "Dopamine metabolism and reactive oxygen species production", *Mitochondrial Mechanisms of Degeneration and Repair in Parkinson's Disease*, 25-47, [10.1007/978-3-319-42139-1\\_2](https://doi.org/10.1007/978-3-319-42139-1_2)

### Book Series

- **Alexey Kolodkin**. "Systems Biology Through the Concept of Emergence", *History, Philosophy and Theory of the Life Sciences*, 20 - 181-191, [10.1007/978-3-319-47000-9\\_17](https://doi.org/10.1007/978-3-319-47000-9_17)
- **Marek Ostaszewski, Alexander Skupin, Rudi Balling**. "Neurological Diseases from a Systems Medicine Point of View.", *Methods in Molecular Biology*, 1386 - 221-50, [10.1007/978-1-4939-3283-2\\_11](https://doi.org/10.1007/978-1-4939-3283-2_11)
- **Maïke K Aurich, Ines Thiele**. "Computational Modeling of Human Metabolism and Its Application to Systems Biomedicine.", *Methods in Molecular Biology*, 1386 - 253-81, [10.1007/978-1-4939-3283-2\\_12](https://doi.org/10.1007/978-1-4939-3283-2_12)

### Conference Proceeding

- **Alexandre Mauroy, Jorge Goncalves**. "Linear identification of nonlinear systems: A lifting technique based on the Koopman operator", 2016 IEEE 55th Conference on Decision and Control, CDC 2016, 6500-6505, [10.1109/CDC.2016.7799269](https://doi.org/10.1109/CDC.2016.7799269)
- **Johan Markdahl, Jorge Goncalves**. "Global convergence properties of a consensus protocol on the n-sphere", 2016 IEEE 55th Conference on Decision and Control, CDC 2016, 3487-3492, [10.1109/CDC.2016.7798792](https://doi.org/10.1109/CDC.2016.7798792)
- **Florian Bernard, Peter Gemmar, Frank Hertel, Jorge Goncalves, Johan Thunberg**. "Linear shape deformation models with local support using graph-based structured matrix factorisation", *Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition*, 2016-December - 5629-5638, [10.1109/CVPR.2016.607](https://doi.org/10.1109/CVPR.2016.607)
- **Maria Biryukov, Valentin Groues, Christophe Trefois, Venkata Satagopam, Reinhard Schneider**. "Semantic web technologies for a knowledge base of biomedical facts extracted from scientific literature", *CEUR Workshop Proceedings*, 1795 -
- Boonyarit Changaival, Gregoire Danoy, **Marek Ostaszewski**, Kittichai Lavangnananda, Franck Leprevost, Pascal Bouvr. "Metaheuristic Based Clustering Algorithms for Biological Hypergraphs", 6th International Conference on Metaheuristics and Nature Inspired Computing META' 2016, 364-366,
- Aivar Sootla, **Alexandre Mauroy**. "Properties of isostables and basins of attraction of monotone systems", *Proceedings of the American Control Conference*, 2016-July - 7365-7370, [10.1109/ACC.2016.7526835](https://doi.org/10.1109/ACC.2016.7526835)
- Susanne Reinsbach, Anne Wienecke-Baldacchina, Auréline Ginolhac, Laurent Vallar, **Abhimanyu Krishna**, Petr Naarov, **Patrick May**, Stephanie Kreis. "'Melanomics': analysis and integration of whole genomes, transcriptomes and miRNomes of primary melanoma patients", *Proceedings Book 24th Biennial Congress of the European Association for Cancer Research*, 9–12 July 2016, Manchester, UK, *European Journal Of Cancer*, 61 Supplement 1 - 32, [10.1016/S0959-8049\(16\)61101-2](https://doi.org/10.1016/S0959-8049(16)61101-2)
- **Nicolo Colombo, Nikos Vlassis**. "Tensor decomposition via joint matrix schur decomposition", 33rd International Conference on Machine Learning, ICML 2016, 6 - 4126-4134,
- **Siham Hachi, Edinson Lucumi Moreno**, An Sofie Desmet, Pieter Vanden Berghe, **Ronan M T Fleming**. "Non-rigid estimation of cell motion in calcium time-lapse images", *Progress in Biomedical Optics and Imaging - Proceedings of SPIE*, 9788 - [10.1117/12.2216494](https://doi.org/10.1117/12.2216494)



- **Florian Bernard**, Nikos Vlassis, Peter Gemmar, **Andreas Husch**, **Johan Thunberg**, **Jorge Goncalves**, **Frank Hertel**. "Fast correspondences for statistical shape models of brain structures", Progress in Biomedical Optics and Imaging - Proceedings of SPIE, 9784 - [10.1117/12.2206024](https://doi.org/10.1117/12.2206024)
- **Wei Pan**, Ye Yuan, Lennart Ljung, **Jorge Goncalves**, Guy Bart Stan. "Identifying biochemical reaction networks from heterogeneous datasets", Proceedings of the IEEE Conference on Decision and Control, 54rd IEEE Conference on Decision and Control, CDC 2015 - 2525-2530, [10.1109/CDC.2015.7402596](https://doi.org/10.1109/CDC.2015.7402596)
- Ania A. Baetica, Ye Yuan, **Jorge Goncalves**, Richard M. Murray. "A stochastic framework for the design of transient and steady state behavior of biochemical reaction networks", Proceedings of the IEEE Conference on Decision and Control, 54rd IEEE Conference on Decision and Control, CDC 2015 - 3199-3205, [10.1109/CDC.2015.7402699](https://doi.org/10.1109/CDC.2015.7402699)
- **Zuogong Yue**, **Johan Thunberg**, Ye Yuan, **Jorge Goncalves**. "Dynamical Structure Function and Granger Causality: Similarities and differences", Proceedings of the IEEE Conference on Decision and Control, 54rd IEEE Conference on Decision and Control, CDC 2015 - 889-894, [10.1109/CDC.2015.7402341](https://doi.org/10.1109/CDC.2015.7402341)

## Journal

- Smijin Soman, Marcus Keatinge, **Mahsa Moein**, Marc DaCosta, Heather Mortiboys, **Alexander Skupin**, Sreedevi Sugunan, Michal Bazala, Jacek Kuznicki, Oliver Bandmann. "Inhibition of the mitochondrial calcium uniporter (MCU) rescues dopaminergic neurons in pink1-/- zebrafish.", European Journal Of Neuroscience, 45 - (4) - 528-535, [10.1111/ejn.13473](https://doi.org/10.1111/ejn.13473)
- Franz Maximilian Rasche, Thomas Ebert, Julia Beckmann, Volker Busch, Filip Barinka, Wilma Gertrud Rasche, Tom H. Lindner, **Jochen G. Schneider**, Stephan Schiekhofer. "Influence of Erythropoiesis-Stimulating Agents on HbA1c and Fructosamine in Patients with Haemodialysis.", Experimental And Clinical Endocrinology & Diabetes, 125 - (6) - 384-391, [10.1055/s-0042-124577](https://doi.org/10.1055/s-0042-124577)
- Aivar Sootla, **Alexandre Mauroy**, **Jorge Goncalves**. "Shaping Pulses to Control Bistable Monotone Systems Using Koopman Operator", Ifac-Papersonline, 49 - (18) - 698-703, [10.1016/j.ifacol.2016.10.247](https://doi.org/10.1016/j.ifacol.2016.10.247)
- **Alberto Noronha**, Anna Drofn Danielsdottir, **Piotr Gawron**, Freyr Johannsson, Soffia Jonsdottir, Sindri Jarlsson, Jon Petur Gunnarsson, Sigurethur Brynjolfsson, **Reinhard Schneider**, **Ines Thiele**, **Ronan M T Fleming**. "ReconMap: an interactive visualization of human metabolism.", Bioinformatics, 33 - (4) - 605-607, [10.1093/bioinformatics/btw667](https://doi.org/10.1093/bioinformatics/btw667)
- **Shaman Narayanasamy**, **Yohan Jarosz**, **Emilie E L Muller**, **Anna Heintz-Buschart**, **Malte Herold**, **Anne Kaysen**, **Cedric C Laczny**, **Nicolas Pinel**, **Patrick May**, **Paul Wilmes**. "IMP: a pipeline for reproducible reference-independent integrated metagenomic and metatranscriptomic analyses.", Genome Biology, 17 - (1) - 260, [10.1186/s13059-016-1116-8](https://doi.org/10.1186/s13059-016-1116-8)
- Johan Staaf, Viktor Labmayr, Katharina Paulmichl, Hannes Manell, Jing Cen, Iris Ciba, Marie Dahlbom, Kirsten Roomp, Christian Heinz Anderwald, Matthias Meissnitzer, **Reinhard Schneider**, Anders Forslund, Kurt Widhalm, Jonas Bergquist, Håkan Ahlström, Peter Bergsten, Daniel Weghuber, Joel Kullberg. "Pancreatic Fat Is Associated With Metabolic Syndrome and Visceral Fat but Not Beta-Cell Function or Body Mass Index in Pediatric Obesity", Pancreas, 46 - (3) - 358-365, [10.1097/MPA.0000000000000771](https://doi.org/10.1097/MPA.0000000000000771)
- Marie N Bongiovanni, Julien Godet, Mathew H Horrocks, Laura Tosatto, Alexander R Carr, David C Wirthensohn, Rohan T Ranasinghe, Ji-Eun Lee, Aleks Ponjavic, **Joelle V Fritz**, Christopher M Dobson, David Klenerman, Steven F Lee. "Multi-dimensional super-resolution imaging enables surface hydrophobicity mapping.", Nature Communications, 7 - 13544, [10.1038/ncomms13544](https://doi.org/10.1038/ncomms13544)
- Mitra Mojtahedi, **Alexander Skupin**, Joseph Zhou, Ivan G Castano, Rebecca Y Y Leong-Quong, Hannah Chang, Kalliopi Trachana, Alessandro Giuliani, Sui Huang. "Cell Fate Decision as High-Dimensional Critical State Transition.", Plos Biology, 14 - (12) - e2000640, [10.1371/journal.pbio.2000640](https://doi.org/10.1371/journal.pbio.2000640)
- T Brillatz, E Ferreira Queiroz, L Marcourt, **M Jacmin**, **A D Crawford**, J L Wolfender. "Anticonvulsant agents from Boswellia sacra identified by zebrafish bioassay-guided fractionation.", Planta Medica, 81 - (S 01) - S1-S381, [10.1055/s-0036-1596567](https://doi.org/10.1055/s-0036-1596567)
- T Brillatz, E Ferreira Queiroz, L Marcourt, K Vougiogiannopoulou, **M Jacmin**, **A D Crawford**, L Skaltsounis, J L Wolfender. "Bioguided isolation of anticonvulsant principles from Helleborus cyclophyllus using the zebrafish epilepsy model.", Planta Medica, 81 - (S 01) - S1-S381, [10.1055/s-0036-1596568](https://doi.org/10.1055/s-0036-1596568)
- **Stefania Magnusdottir**, **Almut Heinken**, **Laura Kutt**, **Dmitry A Ravcheev**, **Eugen Bauer**, **Alberto Noronha**, **Kacy Greenhalgh**, **Christian Jager**, **Joanna Baginska**, **Paul Wilmes**, **Ronan M T Fleming**, **Ines Thiele**. "Generation of genome-scale metabolic reconstructions for 773 members of the human gut microbiota.", Nature Biotechnology, 35 - (1) - 81-89, [10.1038/nbt.3703](https://doi.org/10.1038/nbt.3703)
- Sebastian Kohler, Nicole A Vasilevsky, Mark Engelstad, Erin Foster, Julie Mcmurry, Segolene Ayme, Gareth Baynam, Susan M Bello, Cornelius F Boerkoel, Kym M Boycott, Michael Brudno, Orion J Buske, Patrick F Chinnery, Valentina Cipriani, Lauren E Connell, Hugh J S Dawkins, Laura E Demare, Andrew D Devereau, Bert B A De Vries, Helen V Firth, Kathleen Freson, Daniel Greene, Ada Hamosh, Ingo Helbig, Courtney Hum, Johanna A Jahn, Roger James, **Roland Krause**, Stanley J F Laulederkind, Hanns Lochmuller, Gholson J Lyon, Soichi Ogishima, Annie Olry, Willem H Ouwehand, Nikolas Pontikos, Ana Rath, Franz Schaefer, Richard H Scott, Michael Segal, Panagiotis I Sergouniotis, Richard Sever, Cynthia L Smith, Volker Straub, Rachel Thompson, Catherine Turner, Ernest Turro, Marijke W M Veltman, Tom Vulliamy, Jing Yu, Julie Von Ziegenweid, Andreas Zankl, Stephan Zuchner, Tomasz Zemojtel, Julius O B Jacobsen, Tudor Groza, Damian Smedley, Christopher J Mungall, Melissa Haendel, Peter N Robinson. "The Human Phenotype Ontology in 2017.", Nucleic Acids Research, 45 - (D1) - D865-D876, [10.1093/nar/gkw1039](https://doi.org/10.1093/nar/gkw1039)
- **Sandra Koglsberger**, **Maria Lorena Cordero-Maldonado**, **Paul Antony**, **Julia Ilona Forster**, **Pierre Garcia**, **Manuel Buttini**, **Alexander Crawford**, **Enrico Glaab**. "Gender-Specific Expression of Ubiquitin-Specific Peptidase 9 Modulates Tau Expression and Phosphorylation: Possible Implications for Tauopathies.", Molecular Neurobiology, 54 - (10) - 7979-93, [10.1007/s12035-016-0299-z](https://doi.org/10.1007/s12035-016-0299-z)
- **Ronan M T Fleming**, Nikos Vlassis, **Ines Thiele**, Michael A Saunders. "Conditions for duality between fluxes and concentrations in biochemical networks.", Journal Of Theoretical Biology, 409 - 1-10, [10.1016/j.jtbi.2016.06.033](https://doi.org/10.1016/j.jtbi.2016.06.033)
- **Mahesh S Desai**, Anna M Seekatz, Nicole M Koropatkin, Nobuhiko Kamada, Christina A Hickey, Mathis Wolter, Nicholas A Pudlo, Sho Kitamoto, Nicolas Terrapon, Arnaud Muller, Vincent B Young, Bernard Henrissat, **Paul Wilmes**, Thaddeus S Stappenbeck, Gabriel Nunez, Eric C Martens. "A Dietary Fiber-Deprived Gut Microbiota Degrades the Colonic Mucus Barrier and Enhances Pathogen Susceptibility.", Cell, 167 - (5) - 1339-1353.e21, [10.1016/j.cell.2016.10.043](https://doi.org/10.1016/j.cell.2016.10.043)
- Doriane Lorendeau, Gianmarco Rinaldi, Ruben Boon, Pieter Spincemaille, Kristine Metzger, **Christian Jager**, Stefan Christen, **Xiangyi Dong**, Sabine Kuenen, Karin Voordeckers, Patrik Verstreken, David Cassiman, Pieter Vermeersch, Catherine Verfaillie, **Karsten Hiller**, Sarah-Maria Fendt. "Dual loss of succinate dehydrogenase (SDH) and complex I activity is necessary to recapitulate the metabolic phenotype of SDH mutant tumors.", Metabolic Engineering, 43 - (Pt B) - 187-197, [10.1016/j.ymben.2016.11.005](https://doi.org/10.1016/j.ymben.2016.11.005)
- **Hulda S Haraldsdottir**, **Ronan M T Fleming**. "Identification of Conserved Moieties in Metabolic Networks by Graph Theoretical Analysis of Atom Transition Networks.", Plos Computational Biology, 12 - (11) - e1004999, [10.1371/journal.pcbi.1004999](https://doi.org/10.1371/journal.pcbi.1004999)

- **Pham Luu Trung Duong**, Le Quang Minh, Tram Ngoc Pham, **Jorge Goncalves**, Ezra Kwok, Moonyong Lee. "Uncertainty quantification and global sensitivity analysis of complex chemical processes with a large number of input parameters using compressive polynomial chaos", *Chemical Engineering Research & Design*, 115 - 204-213, [10.1016/j.chemd.2016.09.035](https://doi.org/10.1016/j.chemd.2016.09.035)
- Marna Eliana Sakalem, Thomas Seidenbecher, Mingyue Zhang, Roja Saffari, Mykola Kravchenko, Stephanie Wordemann, Kai Diederich, **Jens C Schwamborn**, Weiqi Zhang, Oliver Ambree. "Environmental enrichment and physical exercise revert behavioral and electrophysiological impairments caused by reduced adult neurogenesis.", *Hippocampus*, 27 - (1) - 36-51, [10.1002/hipo.22669](https://doi.org/10.1002/hipo.22669)
- **Anna Heintz-Buschart**, **Patrick May**, **Cedric C Laczny**, **Laura A Lebrun**, Camille Bellora, **Abhimanyu Krishna**, **Linda Wampach**, **Jochen G Schneider**, Angela Hogan, **Carine de Beaufort**, **Paul Wilmes**. "Integrated multi-omics of the human gut microbiome in a case study of familial type 1 diabetes.", *Nature Microbiology*, 2 - (1) - 16180, [10.1038/nmicrobiol.2016.180](https://doi.org/10.1038/nmicrobiol.2016.180)
- Lisa Wang, Michael G Heckman, Jan O Aasly, Grazia Annesi, Maria Bozi, Sun Ju Chung, Carl Clarke, David Crosiers, Gertrud Eckstein, Gaetan Garraux, Georgios M Hadjigeorgiou, Nobu Hattori, Beom Jeon, Yun J Kim, Masato Kubo, Suzanne Lesage, Juei Jueng Lin, Timothy Lynch, Peter Lichtner, George D Mellick, Vincent Mok, Karin E Morrison, Aldo Quattrone, Wataru Satake, Peter A Silburn, Leonidas Stefanis, Joanne D Stockton, Eng King Tan, Tatsushi Toda, Alexis Brice, Christine Van Broeckhoven, Ryan J Uitti, Karin Wirdefeldt, Zbigniew Wszolek, Georgia Xiromerisiou, Demetrius M Maraganore, Thomas Gasser, **Rejko Kruger**, Matthew J Farrer, Owen A Ross, Manu Sharma. "Evaluation of the interaction between LRRK2 and PARK16 loci in determining risk of Parkinson's disease: analysis of a large multicenter study.", *Neurobiology Of Aging*, 49 - 217.e1-4, [10.1016/j.neurobiolaging.2016.09.022](https://doi.org/10.1016/j.neurobiolaging.2016.09.022)
- Sabrina Pichler, **Wei Gu**, Daniela Hartl, Gilles Gasparoni, Petra Leidinger, Andreas Keller, Eckart Meese, Manuel Mayhaus, Harald Hampel, Matthias Riemenschneider. "The miRNome of Alzheimer's disease: consistent downregulation of the miR-132/212 cluster.", *Neurobiology Of Aging*, 50 - 167.e1-167.e10, [10.1016/j.neurobiolaging.2016.09.019](https://doi.org/10.1016/j.neurobiolaging.2016.09.019)
- Laurent Antunes, Sonia Frasquilho, **Marek Ostaszewski**, Jos Weber, Laura Longhino, **Paul Antony**, **Aidos Baumuratov**, **Manuel Buttini**, Kathleen M Shannon, **Rudi Balling**, **Nico J Diederich**. "Similar alpha-Synuclein staining in the colon mucosa in patients with Parkinson's disease and controls.", *Movement Disorders*, 31 - (10) - 1567-1570, [10.1002/mds.26702](https://doi.org/10.1002/mds.26702)
- Sebastien Gabel, Eric Koncina, Gauthier Dorban, Tony Heurtaux, Cindy Birck, **Enrico Glaab**, **Alessandro Michelucci**, Paul Heuschling, Luc Grandbarbe. "Inflammation Promotes a Conversion of Astrocytes into Neural Progenitor Cells via NF-kappaB Activation.", *Molecular Neurobiology*, 53 - (8) - 5041-55, [10.1007/s12035-015-9428-3](https://doi.org/10.1007/s12035-015-9428-3)
- **Piotr GAWRON**, **Marek OSTASZEWSKI**, **Venkata Pardhasaradhi SATAGOPAM**, **Stephan GEBEL**, Alexander Mazein, Michal Kuzma, Simone Zorzan, Fintan McGee, Benoit Otjacques, **Reinhard SCHNEIDER**, **Rudi BALLING**. "MINERVA—a platform for visualization and curation of molecular interaction networks", *Npj Systems Biology And Applications*, 2 - 16020, [10.1038/npsba.2016.20](https://doi.org/10.1038/npsba.2016.20)
- **Srikanth Ravichandran**, **Satoshi Okawa**, **Susana Martinez Arbas**, **Antonio Del Sol**. "A systems biology approach to identify niche determinants of cellular phenotypes.", *Stem Cell Research*, 17 - (2) - 406-412, [10.1016/j.scr.2016.09.006](https://doi.org/10.1016/j.scr.2016.09.006)
- **Daniel Weindl**, **Andre Wegner**, **Karsten Hiller**. "MIA: non-targeted mass isotopologue analysis.", *Bioinformatics*, 32 - (18) - 2875-6, [10.1093/bioinformatics/btw317](https://doi.org/10.1093/bioinformatics/btw317)
- **A. S. Baumuratov**, **P. M A Antony**, **M. Ostaszewski**, **F. He**, **L. Salamanca**, L. Antunes, J. Weber, L. Longhino, P. Derkinderen, W. J H Koopman, **N. J. Diederich**. "Enteric neurons from Parkinson's disease patients display ex vivo aberrations in mitochondrial structure", *Scientific Reports*, 6 - 33117, [10.1038/srep33117](https://doi.org/10.1038/srep33117)
- **Satoshi Okawa**, **Sarah Nicklas**, **Sascha Zickenrott**, **Jens C Schwamborn**, **Antonio Del Sol**. "A Generalized Gene-Regulatory Network Model of Stem Cell Differentiation for Predicting Lineage Specifiers.", *Stem Cell Reports*, 7 - (3) - 307-15, [10.1016/j.stemcr.2016.07.014](https://doi.org/10.1016/j.stemcr.2016.07.014)
- Susanne Kleiderman, Simon Gutbier, Kemal Ugur Tufekci, Felipe Ortega, Joao V Sa, Ana P Teixeira, Catarina Brito, **Enrico Glaab**, Benedikt Berninger, Paula M Alves, Marcel Leist. "Conversion of Nonproliferating Astrocytes into Neurogenic Neural Stem Cells: Control by FGF2 and Interferon-gamma.", *Stem Cells*, 34 - (12) - 2861-2874, [10.1002/stem.2483](https://doi.org/10.1002/stem.2483)
- Dimiter Dimitrov, **Ines Thiele**, Lynnette R Ferguson. "Editorial: The Human Gutome: Nutrigenomics of Host-Microbiome Interactions.", *Frontiers In Genetics*, 7 - (SEP) - 158, [10.3389/fgene.2016.00158](https://doi.org/10.3389/fgene.2016.00158)
- Richard D Beger, Warwick Dunn, Michael A Schmidt, Steven S Gross, Jennifer A Kirwan, Marta Cascante, Lorraine Brennan, David S Wishart, Matej Oresic, Thomas Hankemeier, David I Broadhurst, Andrew N Lane, Karsten Suhre, Gabi Kastenmuller, Susan J Sumner, **Ines Thiele**, Oliver Fiehn, Rima Kaddurah-Daouk. "Metabolomics enables precision medicine: "A White Paper, Community Perspective".", *Metabolomics*, 12 - (9) - 149, [10.1007/s11306-016-1094-6](https://doi.org/10.1007/s11306-016-1094-6)
- Katia Hardies, Yiyang Cai, Claude Jardel, Anna C. Jansen, Mian Cao, **Patrick May**, Tania Djémié, Caroline Hachon Le Camus, Kathelijm Keymolen, Tine Deconinck, Vikas Bhambhani, Catherine Long, Samin A. Sajjan, Katherine L. Helbig, Arvid Suls, **Rudi Balling**, Ingo Helbig, AR working group of the EuroEPINOMICS RES Consortium, Peter De Jonghe, Christel Depienne, Pietro De Camilli, Sarah Weckhuysen. "Loss of SYNJ1 dual phosphatase activity leads to early onset refractory seizures and progressive neurological decline", *Brain*, 139 - (9) - 2420-2430, [10.1093/brain/aww180](https://doi.org/10.1093/brain/aww180)
- **Christian Jager**, **Karsten Hiller**, **Manuel Buttini**. "Metabolic Profiling and Quantification of Neurotransmitters in Mouse Brain by Gas Chromatography-Mass Spectrometry.", *Current Protocols In Mouse Biology*, 6 - (3) - 333-342, [10.1002/cpmo.15](https://doi.org/10.1002/cpmo.15)
- Pit Ullmann, Komal Qureshi-Baig, Fabien Rodriguez, Aurelien Ginolhac, **Yannic Nonnenmacher**, Dominik Ternes, Jil Weiler, Karoline Gabler, Christelle Bahlawane, **Karsten Hiller**, Serge Haan, Elisabeth Letellier. "Hypoxia-responsive miR-210 promotes self-renewal capacity of colon tumor-initiating cells by repressing ISCU and by inducing lactate production.", *Oncotarget*, 7 - (40) - 65454-65470, [10.18632/oncotarget.11772](https://doi.org/10.18632/oncotarget.11772)
- Olga V. Tsoy, **Dmitry A. Ravcheev**, Jelena ■uklina, Mikhail S. Gelfand. "Nitrogen fixation and molecular oxygen: Comparative genomic reconstruction of transcription regulation in Alphaproteobacteria", *Frontiers In Microbiology*, 7 - (AUG) - 1343, [10.3389/fmicb.2016.01343](https://doi.org/10.3389/fmicb.2016.01343)
- Michael Sagner, Amy McNeil, Pekka Puska, Charles Auffray, Nathan D Price, Leroy Hood, Carl J Lavie, Ze-Guang Han, Zhu Chen, Samir Kumar Brahmachari, Bruce S McEwen, Marcelo B Soares, **Rudi Balling**, Elissa Epel, Ross Arena. "The P4 Health Spectrum - A Predictive, Preventive, Personalized and Participatory Continuum for Promoting Healthspan.", *Progress In Cardiovascular Diseases*, 59 - (5) - 506-521, [10.1016/j.pcad.2016.08.002](https://doi.org/10.1016/j.pcad.2016.08.002)
- Hui Zhang, Mehmet G Badur, Ajit S Divakaruni, Seth J Parker, **Christian Jager**, **Karsten Hiller**, Anne N Murphy, Christian M Metallo. "Distinct Metabolic States Can Support Self-Renewal and Lipogenesis in Human Pluripotent Stem Cells under Different Culture Conditions.", *Cell Reports*, 16 - (6) - 1536-1547, [10.1016/j.celrep.2016.06.102](https://doi.org/10.1016/j.celrep.2016.06.102)
- **Maïke K. Aurich**, **Ronan M T Fleming**, **Ines Thiele**. "MetaboTools: A comprehensive toolbox for analysis of genome-scale metabolic models", *Frontiers In Physiology*, 7 - (AUG) - 327, [10.3389/fphys.2016.00327](https://doi.org/10.3389/fphys.2016.00327)

- Francois Collard, Francesca Baldin, Isabelle Gerin, Jennifer Bolsee, Gaetane Noel, Julie Graff, Maria Veiga-da-Cunha, Vincent Stroobant, Didier Vertommen, Amina Houddane, Mark H Rider, **Carole L Linster**, Emile Van Schaftingen, Guido T Bommer. "A conserved phosphatase destroys toxic glycolytic side products in mammals and yeast.", *Nature Chemical Biology*, 12 - (8) - 601-7, [10.1038/nchembio.2104](https://doi.org/10.1038/nchembio.2104)
- **Kirsten Roomp**, Jacquie Rand. "Rebound hyperglycaemia in diabetic cats.", *Journal Of Feline Medicine And Surgery*, 18 - (8) - 587-96, [10.1177/1098612X15588967](https://doi.org/10.1177/1098612X15588967)
- Eva C Bunk, **Gokhan Ertaylan**, Felipe Ortega, **Maria A Pavlou**, **Laura Gonzalez Cano**, Athanasios Stergiopoulos, Shima Safaiyan, Sandra Vols, Marianne van Cann, Panagiotis K Politis, Mikael Simons, Benedikt Berninger, **Antonio Del Sol**, **Jens C Schwamborn**. "Prox1 Is Required for Oligodendrocyte Cell Identity in Adult Neural Stem Cells of the Subventricular Zone.", *Stem Cells*, 34 - (8) - 2115-29, [10.1002/stem.2374](https://doi.org/10.1002/stem.2374)
- **Vladimir Espinosa Angarica**, **Antonio Del Sol**. "Modeling heterogeneity in the pluripotent state: A promising strategy for improving the efficiency and fidelity of stem cell differentiation.", *Bioessays*, 38 - (8) - 758-68, [10.1002/bies.201600103](https://doi.org/10.1002/bies.201600103)
- Carolien G F de Kovel, Eva H Brilstra, Marjan J A van Kempen, Ruben Van't Slot, Isaac J Nijman, Zaid Afawi, Peter De Jonghe, Tania Djemie, Renzo Guerrini, Katia Hardies, Ingo Helbig, Rik Hendrickx, Moine Kanaan, Uri Kramer, Anna-Elina E Lehesjoki, Johannes R Lemke, Carla Marini, Davide Mei, Rikke S Moller, Manuela Pendziwiat, Hannah Stamberger, Arvid Suls, Sarah Weckhuysen, Bobby P C Koeleman, **EuroEPINOMICS RES Consortium**. "Targeted sequencing of 351 candidate genes for epileptic encephalopathy in a large cohort of patients.", *Molecular Genetics & Genomic Medicine*, 4 - (5) - 568-80, [10.1002/mgg3.235](https://doi.org/10.1002/mgg3.235)
- **Alexandre Mauroy**, Perouz Taslakian, Stefan Langerman, Raphaël Jungers. "The four bars problem", *Nonlinearity*, 29 - (9) - 2657-2673, [10.1088/0951-7715/29/9/2657](https://doi.org/10.1088/0951-7715/29/9/2657)
- Ronald Biemann, Marina Penner, Katrin Borucki, Sabine Westphal, Claus Luley, Raik Röncke, Kathleen Biemann, Cornelia Weikert, Anke Lux, Nikolai Goncharenko, Hanns Ulrich Marschall, **Jochen G. Schneider**, Berend Isermann. "Serum bile acids and GLP-1 decrease following telemetric induced weight loss: Results of a randomized controlled trial", *Scientific Reports*, 6 - 30173, [10.1038/srep30173](https://doi.org/10.1038/srep30173)
- **Joelle V Fritz**, **Anna Heintz-Buschart**, **Anubrata Ghosal**, **Linda Wampach**, Alton Etheridge, David Galas, **Paul Wilmes**. "Sources and Functions of Extracellular Small RNAs in Human Circulation.", *Annual Review of Nutrition*, *Annual Review Of Nutrition*, 36 - 301-36, [10.1146/annurev-nutr-071715-050711](https://doi.org/10.1146/annurev-nutr-071715-050711)
- **Pham Luu Trung Duong**, Wahid Ali, Ezra Kwok, Moonyong Lee. "Uncertainty quantification and global sensitivity analysis of complex chemical process using a generalized polynomial chaos approach", *Computers & Chemical Engineering*, 90 - 23-30, [10.1016/j.compchemeng.2016.03.020](https://doi.org/10.1016/j.compchemeng.2016.03.020)
- **Aishwarya Alex Namasivayam**, Alejandro Ferreira Morales, Ángela María Fajardo Lacave, Aravind Tallam, Borislav Simovic, David Garrido Alfaro, **Dheeraj Reddy Bobbili**, Florian Martin, **Ganna Androsova**, Irina Shvydchenko, Jennifer Park, Jorge Val Calvo, Julia Hoeng, Manuel C. Peitsch, Manuel González Vélez Racero, **Maria Biryukov**, Marja Taliikka, Modesto Berraquero Pérez, Neha Rohatgi, Noberto Díaz-Díaz, Rajesh Mandarapu, Rubén Amián Ruiz, Sergey Davidyan, **Shaman Narayanasamy**, Stéphanie Boué, Svetlana Guryanova, **Susana Martínez Arbas**, Swapna Menon, Yang Xiang. "Community-reviewed biological network models for toxicology and drug discovery applications", *Gene Regulation And Systems Biology*, 10 - 51-66, [10.4137/GRSB.S39076](https://doi.org/10.4137/GRSB.S39076)
- Carlos González-Sánchez, Juan Carlos Fraile, Javier Pérez-Turiel, **Ellen Damm**, **Jochen G. Schneider**, Heiko Zimmermann, Daniel Schmitt, Frank R. Ihmig. "Capacitive sensing for non-invasive breathing and heart monitoring in non-restrained, non-sedated laboratory mice", *Sensors*, 16 - (7) - [10.3390/s16071052](https://doi.org/10.3390/s16071052)
- Thekla Cordes, Martina Wallace, **Alessandro Michelucci**, Ajit S Divakaruni, **Sean C Sapcariu**, **Carole Sousa**, Haruhiko Koseki, Pedro Cabrales, Anne N Murphy, **Karsten Hiller**, Christian M Metallo. "Immuno-responsive Gene 1 and Itaconate Inhibit Succinate Dehydrogenase to Modulate Intracellular Succinate Levels.", *Journal Of Biological Chemistry*, 291 - (27) - 14274-14284, [10.1074/jbc.M115.685792](https://doi.org/10.1074/jbc.M115.685792)
- Michael Maes, Gabriel Nowak, Javier R Caso, Juan Carlos Leza, Cai Song, Marta Kubera, Hans Klein, Piotr Galecki, Cristiano Noto, **Enrico Glaab**, **Rudi Balling**, Michael Berk. "Toward Omics-Based, Systems Biomedicine, and Path and Drug Discovery Methodologies for Depression-Inflammation Research.", *Molecular Neurobiology*, 53 - (5) - 2927-2935, [10.1007/s12035-015-9183-5](https://doi.org/10.1007/s12035-015-9183-5)
- **Kacy Greenhalgh**, Kristen M Meyer, Kjersti M Aagaard, **Paul Wilmes**. "The human gut microbiome in health: establishment and resilience of microbiota over a lifetime.", *Environmental Microbiology*, 18 - (7) - 2103-16, [10.1111/1462-2920.13318](https://doi.org/10.1111/1462-2920.13318)
- Maria Doppler, Bernhard Kluger, Christoph Bueschl, Christina Schneider, Rudolf Krska, **Sylvie Delcambre**, **Karsten Hiller**, Marc Lemmens, Rainer Schuhmacher. "Stable Isotope-Assisted Evaluation of Different Extraction Solvents for Untargeted Metabolomics of Plants.", *International Journal Of Molecular Sciences*, 17 - (7) - [10.3390/ijms17071017](https://doi.org/10.3390/ijms17071017)
- **Sean C Sapcariu**, Tamara Kanashova, Marco Dilger, Silvia Diabate, Sebastian Oeder, Johannes Passig, Christian Radischat, Jeroen Buters, Olli Sippula, Thorsten Streibel, Hanns-Rudolf Paur, Christoph Schlager, Sonja Mulhopt, Benjamin Stengel, Rom Rabe, Horst Harndorf, Tobias Krebs, Erwin Karg, Thomas Groger, Carsten Weiss, Gunnar Dittmar, **Karsten Hiller**, Ralf Zimmermann. "Metabolic Profiling as Well as Stable Isotope Assisted Metabolic and Proteomic Analysis of RAW 264.7 Macrophages Exposed to Ship Engine Aerosol Emissions: Different Effects of Heavy Fuel Oil and Refined Diesel Fuel.", *Plos One*, 11 - (6) - e0157964, [10.1371/journal.pone.0157964](https://doi.org/10.1371/journal.pone.0157964)
- Charles Auffray, **Rudi Balling**, Ines Barroso, Laszlo Bencze, Mikael Benson, Jay Bergeron, Enrique Bernal-Delgado, Niklas Blomberg, Christoph Bock, Ana Conesa, Susanna Del Signore, Christophe Delogne, Peter Devilee, Alberto Di Meglio, Marinus Eijkemans, Paul Flicek, Norbert Graf, Vera Grimm, Henk-Jan Guchelaar, Yi-Ke Guo, Ivo Glynne Gut, Allan Hanbury, Shahid Hanif, Ralf-Dieter Hilgers, Angel Honrado, D Rod Hose, Jeanine Houwing-Duistermaat, Tim Hubbard, Sophie Helen Janacek, Haralampos Karanikas, Tim Kievits, Manfred Kohler, Andreas Kremer, Jerry Lanfear, Thomas Lengauer, Edith Maes, Theo Meert, Werner Muller, Dorthé Nickel, Peter Oledzki, Bertrand Pedersen, Milan Petkovic, Konstantinos Pliakos, Magnus Rattray, Josep Redon I Mas, **Reinhard Schneider**, Thierry Sengstag, Xavier Serra-Picamal, Wouter Spek, Lea A I Vaas, Okker van Batenburg, Marc Vandelaer, Peter Varnai, Pablo Villoslada, Juan Antonio Vizcaino, John Peter Mary Wubbe, Gianluigi Zanetti. "Making sense of big data in health research: Towards an EU action plan.", *Genome Medicine*, 8 - (1) - 71, [10.1186/s13073-016-0323-y](https://doi.org/10.1186/s13073-016-0323-y)
- **Maria Angeliki S Pavlou**, **Nicolo Colombo**, Sandra Fuertes-Alvarez, **Sarah Nicklas**, **Laura Gonzalez Cano**, Maria C Marin, **Jorge Goncalves**, **Jens C Schwamborn**. "Expression of the Parkinson's Disease-Associated Gene Alpha-Synuclein is Regulated by the Neuronal Cell Fate Determinant TRIM32.", *Molecular Neurobiology*, 54 - (6) - 4257-4270, [10.1007/s12035-016-9989-9](https://doi.org/10.1007/s12035-016-9989-9)
- Sebastian Heinzl, Benjamin Roeben, Yoav Ben-Shlomo, Stefanie Lerche, Guido Alves, Paolo Barone, Stefanie Behnke, Henk W. Berendse, Bastiaan R. Bloem, David Burn, Richard Dodel, Donald G. Grosset, Michele Hu, Meike Kasten, **Rejko Krüger**, Marcello Moccia, Brit Mollenhauer, Wolfgang Oertel, Ulrike Suenkel, Uwe Walter, Karin Wirdefeldt, Inga Liepelt-Scarfone, Walter Maetzler, Daniela Berg. "Prodromal markers in Parkinson's disease: Limitations in longitudinal studies and lessons learned", *Frontiers In Aging Neuroscience*, 8 - (JUN) - 147, [10.3389/fnagi.2016.00147](https://doi.org/10.3389/fnagi.2016.00147)
- **Cedric C Laczny**, **Emilie E L Muller**, **Anna Heintz-Buschart**, **Malte Herold**, **Laura A Lebrun**, Angela Hogan, **Patrick May**, **Carine de Beaufort**, **Paul Wilmes**. "Identification, Recovery, and Refinement of Hitherto Undescribed Population-Level Genomes from the Human Gastrointestinal Tract.", *Frontiers In Microbiology*, 7 - (JUN) - 884, [10.3389/fmicb.2016.00884](https://doi.org/10.3389/fmicb.2016.00884)

- Xinming Su, Alison K Esser, Sarah R Amend, Jingyu Xiang, Yalin Xu, Michael H Ross, Gregory C Fox, Takayuki Kobayashi, Veronica Steri, **Kirsten Roomp**, Francesca Fontana, Michelle A Hurchla, Brett L Knolhoff, Melissa A Meyer, Elizabeth A Morgan, Julia C Tomasson, Joshua S Novack, Wei Zou, Roberta Faccio, Deborah V Novack, Stephen D Robinson, Steven L Teitelbaum, David G DeNardo, **Jochen G Schneider**, Katherine N Weilbaecher. "Antagonizing Integrin beta3 Increases Immunosuppression in Cancer.", *Cancer Research*, 76 - (12) - 3484-95, [10.1158/0008-5472.CAN-15-2663](https://doi.org/10.1158/0008-5472.CAN-15-2663)
- **Ines THIELE, Marouen BEN GUEBILA**. "Model-based dietary optimization for late-stage, levodopa-treated, Parkinson's disease patients", *Npj Systems Biology And Applications*, 2 - 16013-, [10.1038/npsba.2016.13](https://doi.org/10.1038/npsba.2016.13)
- **Venkata Satagopam, Wei Gu, Serge Eifes, Piotr Gawron, Marek Ostaszewski, Stephan Gebel, Adriano Barbosa-Silva, Rudi Balling, Reinhard Schneider**. "Integration and Visualization of Translational Medicine Data for Better Understanding of Human Diseases.", *Big Data*, 4 - (2) - 97-108, [10.1089/big.2015.0057](https://doi.org/10.1089/big.2015.0057)
- Genevera I Allen, Nicola Amoroso, Catalina Anghel, Venkat Balagurusamy, Christopher J Bare, Derek Beaton, Roberto Bellotti, David A Bennett, Kevin L Boehme, Paul C Boutros, Laura Caberlotto, Cristian Caloian, Frederick Campbell, Elias Chaibub Neto, Yu-Chuan Chang, Beibei Chen, Chien-Yu Chen, Ting-Ying Chien, Tim Clark, Sudeshna Das, Christos Davatzikos, Jieyao Deng, Donna Dillenger, Richard J B Dobson, Qilin Dong, Jimit Doshi, Denise Duma, Rosangela Errico, Guray Erus, Evan Everett, David W Fardo, Stephen H Friend, Holger Frohlich, Jessica Gan, Peter St George-Hyslop, Satrajit S Ghosh, **Enrico Glaab**, Robert C Green, Yuanfang Guan, Ming-Yi Hong, Chao Huang, Jinseub Hwang, Joseph Ibrahim, Paolo Inglese, Anandhi Iyappan, Qijia Jiang, Yuriko Katsumata, John S K Kauwe, Arno Klein, Dehan Kong, **Roland Krause**, Emilie Lalonde, Mario Lauria, Eunjee Lee, Xihui Lin, Zhandong Liu, Julie Livingstone, Benjamin A Logsdon, Simon Lovestone, Tsung-Wei Ma, Ashutosh Malhotra, Lara M Mangravite, Taylor J Maxwell, Emily Merrill, John Nagorski, **Aishwarya Namasivayam**, Manjari Narayan, Mufassra Naz, Stephen J Newhouse, Thea C Norman, Ramil N Nurtdinov, Yen-Jen Oyang, Yudi Pawitan, Shengwen Peng, Mette A Peters, Stephen R Piccolo, Paurush Praveen, Corrado Priami, Veronica Y Sabelnykova, Philipp Senger, Xia Shen, Andrew Simmons, Aristeidis Sotiras, Gustavo Stolovitzky, Sabina Tangaro, Andrea Tateo, Yi-An Tung, Nicholas J Tustison, Erdem Varol, George Vradenburg, Michael W Weiner, Guanghua Xiao, Lei Xie, Yang Xie, Jia Xu, Hojin Yang, Xiaowei Zhan, Yunyun Zhou, Fan Zhu, Hongtu Zhu, Shanfeng Zhu. "Crowdsourced estimation of cognitive decline and resilience in Alzheimer's disease.", *Alzheimers & Dementia*, 12 - (6) - 645-53, [10.1016/j.jalz.2016.02.006](https://doi.org/10.1016/j.jalz.2016.02.006)
- Marlieke Scholten, Rathinaswamy B Govindan, Christoph Braun, Bastiaan R Bloem, Christian Plewnia, **Rejko Kruger**, Alireza Gharabaghi, Daniel Weiss. "Cortical correlates of susceptibility to upper limb freezing in Parkinson's disease.", *Clinical Neurophysiology*, 127 - (6) - 2386-93, [10.1016/j.clinph.2016.01.028](https://doi.org/10.1016/j.clinph.2016.01.028)
- **Johan Thunberg**, Xiaoming Hu. "Optimal output consensus for linear systems: A topology free approach", *Automatica*, 68 - 352-356, [10.1016/j.automatica.2016.02.003](https://doi.org/10.1016/j.automatica.2016.02.003)
- Daniel Schneider, Peter H J Riegman, Maureen Cronin, Anastassia Negrouk, Holger Moch, **Rudi Balling**, Frederiques Penault-Llorca, Kurt Zatloukal, Denis Horgan. "Accelerating the Development and Validation of New Value-Based Diagnostics by Leveraging Biobanks", *Public Health Genomics*, 19 - (3) - 160-169, [10.1159/000446534](https://doi.org/10.1159/000446534)
- Korbin H J West, **Alexander D Crawford**. "Marine Biodiscovery Goes Deeper: Using In Vivo Bioassays Based on Model Organisms to Identify Biomedically Relevant Marine Metabolites.", *Planta Medica*, 82 - (9-10) - 754-60, [10.1055/s-0042-106391](https://doi.org/10.1055/s-0042-106391)
- **J I Forster, S Koglsberger, C Trefois, O Boyd, A S Baumuratov, L Buck, R Balling, P M A Antony**. "Characterization of Differentiated SH-SY5Y as Neuronal Screening Model Reveals Increased Oxidative Vulnerability.", *Journal Of Biomolecular Screening*, 21 - (5) - 496-509, [10.1177/1087057115625190](https://doi.org/10.1177/1087057115625190)
- **Simon Perathoner, Maria Lorena Cordero-Maldonado, Alexander D Crawford**. "Potential of zebrafish as a model for exploring the role of the amygdala in emotional memory and motivational behavior.", *Journal Of Neuroscience Research*, 94 - (6) - 445-62, [10.1002/jnr.23712](https://doi.org/10.1002/jnr.23712)
- Stefanie Lerche, Sebastian Heinzel, Guido W Alves, Paolo Barone, Stefanie Behnke, Yoav Ben-Shlomo, Henk Berendse, Bastiaan R Bloem, David Burn, Richard Dodel, Donald G Grosset, **Geraldine Hipp**, Michele T Hu, Meike Kasten, **Rejko Kruger**, Inga Liepelt-Scarfone, Walter Maetzler, Marcello Moccia, Brit Mollenhauer, Wolfgang Oertel, Benjamin Roeben, Uwe Walter, Karin Wirdefeldt, Daniela Berg. "Aiming for Study Comparability in Parkinson's Disease: Proposal for a Modular Set of Biomarker Assessments to be Used in Longitudinal Studies.", *Frontiers In Aging Neuroscience*, 8 - (MAY) - 121, [10.3389/fnagi.2016.00121](https://doi.org/10.3389/fnagi.2016.00121)
- **Enrico Glaab**. "Using prior knowledge from cellular pathways and molecular networks for diagnostic specimen classification", *Briefings In Bioinformatics*, 17 - (3) - 440-52, [10.1093/bib/bbv044](https://doi.org/10.1093/bib/bbv044)
- **Pranjul Shah, Joelle V Fritz, Enrico Glaab, Mahesh S Desai, Kacy Greenhalgh, Audrey Frachet, Magdalena Niegowska, Matthew Estes, Christian Jager**, Carole Seguin-Devaux, Frederic Zenhausem, **Paul Wilmes**. "A microfluidics-based in vitro model of the gastrointestinal human-microbe interface.", *Nature Communications*, 7 - 11535, [10.1038/ncomms11535](https://doi.org/10.1038/ncomms11535)
- Inga B Fricke, Thomas Viel, Maik M Worlitzer, Franziska M Collmann, Alexis Vrachimis, Andreas Faust, Lydia Wachsmuth, Cornelius Faber, Frederic Dolle, Michael T Kuhlmann, Klaus Schafers, Sven Hermann, **Jens C Schwamborn**, Andreas H Jacobs. "6-hydroxydopamine-induced Parkinson's disease-like degeneration generates acute microgliosis and astrogliosis in the nigrostriatal system but no bioluminescence imaging-detectable alteration in adult neurogenesis.", *European Journal Of Neuroscience*, 43 - (10) - 1352-65, [10.1111/ejn.13232](https://doi.org/10.1111/ejn.13232)
- **Abdul R Sheik, Emilie El Muller**, Jean-Nicolas Audinot, **Laura A Lebrun**, Patrick Grysan, Cedric Guignard, **Paul Wilmes**. "In situ phenotypic heterogeneity among single cells of the filamentous bacterium *Candidatus Microthrix parvicella*.", *Isme Journal*, 10 - (5) - 1274-9, [10.1038/ismej.2015.181](https://doi.org/10.1038/ismej.2015.181)
- Susanne Kleiderman, Joao V Sa, Ana P Teixeira, Catarina Brito, Simon Gutbier, Lars G Evje, Mussie G Hadera, **Enrico Glaab**, Margit Henry, Agapios Sachinidis, Paula M Alves, Ursula Sonnenwald, Marcel Leist. "Functional and phenotypic differences of pure populations of stem cell-derived astrocytes and neuronal precursor cells.", *Glia*, 64 - (5) - 695-715, [10.1002/glia.22954](https://doi.org/10.1002/glia.22954)
- **J Meiser, S Delcambre, A Wegner, C Jager, J Ghelfi, A Fouquier d'Herouel, X Dong, D Weindl, C Stautner, Y Nonnenmacher, A Michelucci, O Popp, F Giesert, S Schildknecht, L Kramer, J G Schneider**, D Woitalla, W Wurst, **A Skupin**, D M Vogt Weisenhorn, **R Kruger**, M Leist, **K Hiller**. "Loss of DJ-1 impairs antioxidant response by altered glutamine and serine metabolism.", *Neurobiology Of Disease*, 89 - 112-25, [10.1016/j.nbd.2016.01.019](https://doi.org/10.1016/j.nbd.2016.01.019)
- M Fatima, R Kumari, **J C Schwamborn**, A Mahadevan, S K Shankar, R Raja, P Seth. "Tripartite containing motif 32 modulates proliferation of human neural precursor cells in HIV-1 neurodegeneration.", *Cell Death And Differentiation*, 23 - (5) - 776-86, [10.1038/cdd.2015.138](https://doi.org/10.1038/cdd.2015.138)
- **Anna Lena Hillje, Jens C. Schwamborn**. "Utilization of stem cells to model Parkinson's disease - Current state and future challenges", *Future Neurology*, 11 - (2) - 171-186, [10.2217/fnl.16.7](https://doi.org/10.2217/fnl.16.7)
- **Jean-Pierre Trezzi**, Alexandre Bulla, Camille Bellora, Michael Rose, Pierre Lescuyer, Michael Kiehnopf, **Karsten Hiller**, Fay Betsou. "LacaScore: a novel plasma sample quality control tool based on ascorbic acid and lactic acid levels.", *Metabolomics*, 12 - (6) - 96, [10.1007/s11306-016-1038-1](https://doi.org/10.1007/s11306-016-1038-1)
- **Daniel Weindl, Thekla Cordes, Nadia Battello, Sean C Sapcariu, Xiangyi Dong, Andre Wegner, Karsten Hiller**. "Bridging the gap between non-targeted stable isotope labeling and metabolic flux analysis.", *Cancer & Metabolism*, 4 - (1) - 10, [10.1186/s40170-016-0150-z](https://doi.org/10.1186/s40170-016-0150-z)

- Laura Arrighoni, Andreas S Richter, Emily Betancourt, Kerstin Bruder, **Sarah Diehl**, Thomas Manke, Ulrike Bonisch. "Standardizing chromatin research: a simple and universal method for ChIP-seq.", *Nucleic Acids Research*, 44 - (7) - e67, [10.1093/nar/gkv1495](https://doi.org/10.1093/nar/gkv1495)
- **Johan Thunberg**, **Jorge Goncalves**, Xiaoming Hu. "Consensus and formation control on SE(3) for switching topologies", *Automatica*, 66 - 109-121, [10.1016/j.automatica.2015.12.035](https://doi.org/10.1016/j.automatica.2015.12.035)
- Joseph Xu Zhou, Areejit Samal, **Aymeric Fouquier d'Hérouël**, Nathan D. Price, Sui Huang. "Relative stability of network states in Boolean network models of gene regulation in development", *Biosystems*, 142-143 - 15-24, [10.1016/j.biosystems.2016.03.002](https://doi.org/10.1016/j.biosystems.2016.03.002)
- Daniel Weiss, Sonja Herrmann, Lisa Wang, Claudia Schulte, Kathrin Brockmann, Christian Plewnia, Thomas Gasser, Manu Sharma, Alireza Gharabaghi, **Rejko Kruger**. "Alpha-synuclein gene variants may predict neurostimulation outcome.", *Movement Disorders*, 31 - (4) - 601-3, [10.1002/mds.26558](https://doi.org/10.1002/mds.26558)
- Stefanie Widder, Rosalind J. Allen, Thomas Pfeiffer, Thomas P. Curtis, Carsten Wiuf, William T. Sloan, Otto X. Cordero, Sam P. Brown, Babak Momeni, Wenyang Shou, Helen Kettle, Harry J. Flint, Andreas F. Haas, Béatrice Laroche, Jan Ulrich Kreft, Paul B. Rainey, Shirir Freilich, Stefan Schuster, Kim Milferstedt, Jan R. Van Der Meer, Tobias Grobkopf, Jef Huisman, Andrew Free, Cristian Picioareanu, Christopher Quince, Isaac Klapper, Simon Labarthe, Barth F. Smets, Harris Wang, Orkun S. Soyer, Steven D. Allison, James Chong, Marco Cosentino Lagomarsino, Ottavio A. Croze, Jérôme Hamelin, Jérôme Harmand, Rebecca Hoyle, Terence T. Hwa, Qusheng Jin, David R. Johnson, Víctor de Lorenzo, Mauro Mobilia, Barry Murphy, François Peaudecerf, James I. Prosser, Robert A. Quinn, Markus Ralser, Alison G. Smith, Jean Philippe Steyer, Neil Swainston, Corina E. Tarnita, Eric Trably, Patrick B. Warren, **Paul Wilmes**. "Challenges in microbial ecology: Building predictive understanding of community function and dynamics", *Isme Journal*, 10 - (11) - 2557-2568, [10.1038/ismej.2016.45](https://doi.org/10.1038/ismej.2016.45)
- Dennis Lal, Eva M Reinthaler, Borislav Dejanovic, **Patrick May**, Holger Thiele, Anna-Elina Lehesjoki, Gunter Schwarz, Erik Riesch, M Arfan Ikram, Cornelia M van Duijn, Andre G Uitterlinden, Albert Hofman, Hannelore Steinbock, Ursula Gruber-Sedlmayr, Birgit Neophytou, Federico Zara, Andreas Hahn, Genetic Commission of the Italian League against Epilepsy, **EuroEPINOMICS CoGIE Consortium**, Padhraig Gormley, Felicitas Becker, Yvonne G Weber, Maria Roberta Cilio, Wolfram S Kunz, **Roland Krause**, Fritz Zimprich, Johannes R Lemke, Peter Nurnberg, Thomas Sander, Holger Lerche, Bernd A Neubauer. "Evaluation of Presumably Disease Causing SCN1A Variants in a Cohort of Common Epilepsy Syndromes.", *Plos One*, 11 - (3) - e0150426, [10.1371/journal.pone.0150426](https://doi.org/10.1371/journal.pone.0150426)
- **Julia Becker-Ketter**, **Nicole Paczia**, **Jean François Conrotte**, **Daniel P. Kay**, Cédric Guignard, **Paul P. Jung**, **Carole L. Linster**. "Saccharomyces cerevisiae Forms D-2-Hydroxyglutarate and Couples Its Degradation to D-Lactate Formation via a Cytosolic Transhydrogenase", *Journal Of Biological Chemistry*, 291 - (12) - 6036-58, [10.1074/jbc.M115.704494](https://doi.org/10.1074/jbc.M115.704494)
- **Suresh Kumar Poovathingal**, Nataly Kravchenko-Balasha, Young Shik Shin, Raphael David Levine, James R. Heath. "Critical Points in Tumorigenesis: A Carcinogen-Initiated Phase Transition Analyzed via Single-Cell Proteomics", *Small*, 12 - (11) - 1425-31, [10.1002/sml.201501178](https://doi.org/10.1002/sml.201501178)
- **Anne Grunewald**, Christine Klein. "Urinary LRRK2 phosphorylation: Penetrating the thicket of Parkinson disease?", *Neurology*, 86 - (11) - 984-5, [10.1212/WNL.0000000000002438](https://doi.org/10.1212/WNL.0000000000002438)
- Xin Yang, Ye Yuan, Zhiqiang Long, **Jorge Goncalves**, Patrick R. Palmer. "Robust stability analysis of active voltage control for high-power IGBT switching by Kharitonov's theorem", *Ieee Transactions On Power Electronics*, 31 - (3) - 2584-2595, [10.1109/TPEL.2015.2439712](https://doi.org/10.1109/TPEL.2015.2439712)
- Cindy Birck, Eric Koncina, Tony Heurtaux, **Enrico Glaab**, **Alessandro Michelucci**, Paul Heuschling, Luc Grandbarbe. "Transcriptomic analyses of primary astrocytes under TNFalpha treatment.", *Genomics Data*, 7 - 7-11, [10.1016/j.gdata.2015.11.005](https://doi.org/10.1016/j.gdata.2015.11.005)
- **Anne Grunewald**, Karolina A Rygiel, Philippa D Hepplewhite, Christopher M Morris, Martin Picard, Doug M Turnbull. "Mitochondrial DNA Depletion in Respiratory Chain-Deficient Parkinson Disease Neurons.", *Annals Of Neurology*, 79 - (3) - 366-78, [10.1002/ana.24571](https://doi.org/10.1002/ana.24571)
- Roberta Palorini, Giuseppina Votta, Yuri Pirola, Humberto De Vitto, Sara De Palma, Cristina Airoldi, Michele Vasso, Francesca Ricciardiello, Pietro Paolo Lombardi, Claudia Cirulli, Raffaella Rizzi, Francesco Nicotra, **Karsten Hiller**, Cecilia Gelfi, Lilia Alberghina, Ferdinando Chiaradonna. "Protein Kinase A Activation Promotes Cancer Cell Resistance to Glucose Starvation and Anoikis.", *Plos Genetics*, 12 - (3) - e1005931, [10.1371/journal.pgen.1005931](https://doi.org/10.1371/journal.pgen.1005931)
- Hiroshi Yamamoto, Daniela Wittek, Romi Gupta, Bo Qin, Takuya Ueda, **Roland Krause**, Kaori Yamamoto, Renate Albrecht, Markus Pech, Knud H. Nierhaus. "70S-scanning initiation is a novel and frequent initiation mode of ribosomal translation in bacteria", *Proceedings Of The National Academy Of Sciences Of The United States Of America*, 113 - (9) - E1180-E1189, [10.1073/pnas.1524554113](https://doi.org/10.1073/pnas.1524554113)
- Richard Wust, Brigitte Maurer, Kathrin Hauser, Dirk Voitalla, Manu Sharma, **Rejko Kruger**. "Mutation analyses and association studies to assess the role of the presenilin-associated rhomboid-like gene in Parkinson's disease.", *Neurobiology Of Aging*, 39 - 217.e13-5, [10.1016/j.neurobiolaging.2015.11.025](https://doi.org/10.1016/j.neurobiolaging.2015.11.025)
- **Enrico Glaab**. "Building a virtual ligand screening pipeline using free software: a survey.", *Briefings In Bioinformatics*, 17 - (2) - 352-66, [10.1093/bib/bbv037](https://doi.org/10.1093/bib/bbv037)
- Sarah R Leist, Carolin Pilzner, Judith M A van den Brand, Leonie Dengler, Robert Geffers, Thijs Kuiken, **Rudi Balling**, Heike Kollmus, Klaus Schughart. "Influenza H3N2 infection of the collaborative cross founder strains reveals highly divergent host responses and identifies a unique phenotype in CAST/EiJ mice.", *Bmc Genomics*, 17 - (1) - 143, [10.1186/s12864-016-2483-y](https://doi.org/10.1186/s12864-016-2483-y)
- David Hayden, Young Hwan Chang, **Jorge Goncalves**, Claire J. Tomlin. "Sparse network identifiability via Compressed Sensing", *Automatica*, 68 - 9-17, [10.1016/j.automatica.2016.01.008](https://doi.org/10.1016/j.automatica.2016.01.008)
- **Johannes Meiser**, **Lisa Krämer**, **Sean C. Sapcariu**, **Nadia Battello**, **Jenny Ghelfi**, **Aymeric Fouquier D'Herouel**, **Alexander Skupin**, **Karsten Hiller**. "Pro-inflammatory macrophages sustain pyruvate oxidation through pyruvate dehydrogenase for the synthesis of itaconate and to enable cytokine expression", *Journal Of Biological Chemistry*, 291 - (8) - 3932-46, [10.1074/jbc.M115.676817](https://doi.org/10.1074/jbc.M115.676817)
- **Nadia Battello**, Andreas David Zimmer, **Carole Goebel**, **Xiangyi Dong**, Iris Behrmann, Claude Haan, **Karsten Hiller**, **Andre Wegner**. "The role of HIF-1 in oncostatin M-dependent metabolic reprogramming of hepatic cells.", *Cancer & Metabolism*, 4 - 3, [10.1186/s40170-016-0141-0](https://doi.org/10.1186/s40170-016-0141-0)
- Aravind Tallam, **Thaneer M Perumal**, **Paul M Antony**, **Christian Jager**, **Joelle V Fritz**, Laurent Vallar, **Rudi Balling**, **Antonio Del Sol**, **Alessandro Michelucci**. "Gene Regulatory Network Inference of Immuno-responsive Gene 1 (IRG1) Identifies Interferon Regulatory Factor 1 (IRF1) as Its Transcriptional Regulator in Mammalian Macrophages.", *Plos One*, 11 - (2) - e0149050, [10.1371/journal.pone.0149050](https://doi.org/10.1371/journal.pone.0149050)
- W. Maetzler, **R. Krüger**, T. Müller, W. Oertel, P. Urban, T. Warnecke, J. Klucken. "Wearable Technique for the Assessment of Parkinson Symptoms: What's the Future?", *Fortschritte Der Neurologie Psychiatrie*, 84 - (Suppl 1) - S48-S51, [10.1055/s-0042-102786](https://doi.org/10.1055/s-0042-102786)
- **Dmitry A Ravcheev**, **Ines Thiele**. "Genomic Analysis of the Human Gut Microbiome Suggests Novel Enzymes Involved in Quinone Biosynthesis.", *Frontiers In Microbiology*, 7 - (FEB) - 128, [10.3389/fmicb.2016.00128](https://doi.org/10.3389/fmicb.2016.00128)
- Tim Schafer, Andreas Scheck, Daniel Bruness, **Patrick May**, Ina Koch. "The new protein topology graph library web server.", *Bioinformatics*, 32 - (3) - 474-6, [10.1093/bioinformatics/btv574](https://doi.org/10.1093/bioinformatics/btv574)
- **Pham Luu Trung Duong**, Ezra Kwok, Moonyong Lee. "Deterministic analysis of distributed order systems using operational matrix", *Applied Mathematical Modelling*, 40 - (3) - 1929-1940, [10.1016/j.apm.2015.09.035](https://doi.org/10.1016/j.apm.2015.09.035)

- Nicolas Casadei, Poonam Sood, Thomas Ulrich, Petra Fallier-Becker, Nicole Kieper, Stefan Helling, Caroline May, **Enrico Glaab**, Jing Chen, Silke Nuber, Katrin Marcus, Doron Rapaport, Thomas Ott, Olaf Riess, **Rejko Kruger**, Julia C Fitzgerald. "Mitochondrial defects and neurodegeneration in mice overexpressing wild-type or G399S mutant HtrA2.", *Human Molecular Genetics*, 25 - (3) - 459-71, [10.1093/hmg/ddv485](https://doi.org/10.1093/hmg/ddv485)
- Shuna Cui, Rabeay Y A Hassan, **Anna Heintz-Buschart**, Ursula Bilitewski. "Regulation of Candida albicans Interaction with Macrophages through the Activation of HOG Pathway by Genistein.", *Molecules*, 21 - (2) - 162, [10.3390/molecules21020162](https://doi.org/10.3390/molecules21020162)
- Daniel J Klionsky, Kotb Abdelmohsen, Akihisa Abe, Md Joynal Abedin, Hagai Abeliovich, Abraham Acevedo Arozena, Hiroaki Adachi, Christopher M Adams, Peter D Adams, Khosrow Adeli, Peter J Adihetty, Sharon G Adler, Galila Agam, Rajesh Agarwal, Manish K Agghi, Maria Agnello, Patrizia Agostinis, Patricia V Aguilar, Julio Aguirre-Ghiso, Edoardo M Airoldi, Slimane Ait-Si-Ali, Takahiko Akematsu, Emmanuel T Akporiaye, Mohamed Al-Rubeai, Guillermo M Albaiceta, Chris Albanese, Diego Albani, Matthew L Albert, Jesus Aldudo, Hana Algul, Mehrdad Alirezaei, Iraide Alloza, Alexandru Almasan, Maylin Almonte-Beceril, Emad S Alnemri, Covadonga Alonso, Nihal Altan-Bonnet, Dario C Altieri, Silvia Alvarez, Lydia Alvarez-Erviti, Sandro Alves, Giuseppina Amadoro, Atsuo Amano, Consuelo Amantini, Santiago Ambrosio, Ivano Amelio, Amal O Amer, Mohamed Amessou, Angelika Amon, Zhenyi An, Frank A Anania, Stig U Andersen, Usha P Andley, Catherine K Andreadi, Nathalie Andrieu-Abadie, Alberto Anel, David K Ann, Shailendra Anoopkumar-Dukie, Manuela Antonioli, Hiroshi Aoki, Nadezda Apostolova, Saveria Aquila, Katia Aquilano, Koichi Araki, Eli Arama, Agustin Aranda, Jun Araya, Alexandre Arcaro, Esperanza Arias, Hirokazu Arimoto, Aileen R Ariosa, Jane L Armstrong, Thierry Arnould, Ivica Arsov, Katsuhiko Asanuma, Valerie Askanas, Eric Asselin, Ryuichiro Atarashi, Sally S Atherton, Julie D Atkin, Laura D Attardi, Patrick Auburger, Georg Auburger, Laure Aurelian, Riccardo Autelli, Laura Avagliano, Maria Laura Avantaggiati, Limor Avrahami, Suresh Awale, Neelam Azad, Tiziana Bachetti, Jonathan M Backer, Dong-Hun Bae, Jae-Sung Bae, Ok-Nam Bae, Soo Han Bae, Eric H Baehrecke, Seung-Hoon Baek, Stephen Baghdiguian, Agnieszka Bagniewska-Zadworna, Hua Bai, Jie Bai, Xue-Yuan Bai, Yannick Bailly, Kithiganahalli Narayanaswamy Balaji, Walter Balduini, Andrea Ballabio, Rena Balzan, Rajkumar Banerjee, Gabor Banhegyi, Haijun Bao, Benoit Barbeau, Maria D Barrachina, Esther Barreiro, Bonnie Bartel, Alberto Bartolomeo, Diane C Bassham, Maria Teresa Bassi, Robert C Jr Bast, Alakananda Basu, Maria Teresa Batista, Henri Batoko, Maurizio Battino, Kyle Bauckman, Bradley L Baumgarner, K Ulrich Bayer, Rupert Beale, Jean-Francois Beaulieu, George R Jr Beck, Christoph Becker, J David Beckham, Pierre-Andre Bedard, Patrick J Bednarski, Thomas J Begley, Christian Behl, Christian Behrends, Georg Mn Behrens, Kevin E Behrns, Eloy Bejarano, Amine Belaid, Francesca Belleudi, Giovanni Benard, Guy Berchem, Daniele Bergamaschi, Matteo Bergami, Ben Berkhout, Laura Berliocchi, Amelie Bernard, Monique Bernard, Francesca Bernassola, Anne Bertolotti, Amanda S Bess, Sebastien Besteiro, Saverio Bettuzzi, Savita Bhalla, Shalmoli Bhattacharyya, Sujit K Bhutia, Caroline Biagosch, Michele Wolfe Bianchi, Martine Biard-Piechaczyk, Viktor Billes, Claudia Bincoletto, Baris Bingol, Sara W Bird, Marc Bitoun, Ivana Bjedov, Craig Blackstone, Lionel Blanc, Guillermo A Blanco, Heidi Kiil Blomhoff, Emilio Boada-Romero, Stefan Bockler, Marianne Boes, Kathleen Boesze-Battaglia, Lawrence H Boise, Alessandra Bolino, Andrea Boman, Paolo Bonaldo, Matteo Bordi, Jurgen Bosch, Luis M Botana, Joelle Botti, German Bou, Marina Bouche, Marion Bouche-careilh, Marie-Josée Boucher, Michael E Boulton, Sebastien G Bouret, Patricia Boya, Michael Boyer-Guittaut, Peter V Bozhkov, Nathan Brady, Vania Mm Braga, Claudio Brancolini, Gerhard H Braus, Jose M Bravo-San Pedro, Lisa A Brennan, Emery H Bresnick, Patrick Brest, Dave Bridges, Marie-Agnes Bringer, Marisa Brini, Glauber C Brito, Bertha Brodin, Paul S Brookes, Eric J Brown, Karen Brown, Hal E Broxmeyer, Alain Bruhat, Patricia Chakur Brum, John H Brumell, Nicola Brunetti-Pierrri, Robert J Bryson-Richardson, Shilpa Buch, Alastair M Buchan, Hikmet Budak, Dmitry V Bulavin, Scott J Bultman, Geert Bultynck, Vladimir Bumbasirevic, Yan Burelle, Robert E Burke, Margit Burmeister, Peter Butikofer, Laura Caberlotto, Ken Cadwell, Monika Cahova, Dongsheng Cai, Jingjing Cai, Qian Cai, Sara Calatayud, Nadine Camougrand, Michelangelo Campanella, Grant R Campbell, Matthew Campbell, Silvia Campello, Robin Candau, Isabella Caniggia, Lavinia Cantoni, Lizhi Cao, Allan B Caplan, Michele Caraglia, Claudio Cardinali, Sandra Morais Cardoso, Jennifer S Carew, Laura A Carleton, Cathleen R Carlin, Silvia Carloni, Sven R Carlsson, Didac Carmona-Gutierrez, Leticia Am Carneiro, Oliana Carnevali, Serena Carra, Alice Carrier, Bernadette Carroll, Katy Casas, Josefine Casas, Giuliana Cassinelli, Perrine Castets, Susana Castro-Obregon, Gabriella Cavallini, Isabella Ceccherini, Francesco Ceconi, Arthur I Cederbaum, Valentin Cena, Simone Cenci, Claudia Cerella, Davide Cervia, Silvia Cetrullo, Hassan Chaachouay, Han-Jung Chae, Andrei S Chagin, Chee-Yin Chai, Gopal Chakrabarti, Georgios Chamilos, Edmond Yw Chan, Matthew Tv Chan, Dhyan Chandra, Pallavi Chandra, Chih-Peng Chang, Raymond Chuen-Chung Chang, Ta Yuan Chang, John C Chatham, Saurabh Chatterjee, Santosh Chauhan, Yongsheng Che, Michael E Cheetham, Rajkumar Cheluvappa, Chun-Jung Chen, Gang Chen, Guang-Chao Chen, Guoqiang Chen, Hongzhan Chen, Jeff W Chen, Jian-Kang Chen, Min Chen, Mingzhou Chen, Peiwen Chen, Qi Chen, Quan Chen, Shang-Der Chen, Si Chen, Steve S-L Chen, Wei Chen, Wei-Jung Chen, Wen Qiang Chen, Wenli Chen, Xiangmei Chen, Yau-Hung Chen, Ye-Guang Chen, Yin Chen, Yingyu Chen, Yongshun Chen, Yu-Jen Chen, Yue-Qin Chen, Yujie Chen, Zhen Chen, Zhong Chen, Alan Cheng, Christopher Hk Cheng, Hua Cheng, Heesun Cheong, Sara Cherry, Jason Chesney, Chun Hei Antonio Cheung, Eric Chevet, Hsiang Cheng Chi, Sung-Gil Chi, Fulvio Chiacchiera, Hui-Ling Chiang, Roberto Chiarelli, Mario Chiariello, Marcello Chieppa, Lih-Shen Chin, Mario Chiong, Gigi Nc Chiu, Dong-Hyung Cho, Ssang-Goo Cho, William C Cho, Yong-Yeon Cho, Young-Seok Cho, Augustine Mk Choi, Eui-Ju Choi, Eun-Kyoung Choi, Jayoung Choi, Mary E Choi, Seung-II Choi, Tsui-Fen Chou, Salem Chouaib, Divaker Choubey, Vinay Choubey, Kuan-Chih Chow, Kamal Chowdhury, Charleen T Chu, Tsung-Hsien Chuang, Taehoon Chun, Hyewon Chung, Taijoon Chung, Yuen-Li Chung, Yong-Joon Chwae, Valentina Cianfanelli, Roberto Ciarci, Iwona A Ciechomska, Maria Rosa Ciriolo, Mara Cirone, Sofie Claerhout, Michael J Clague, Joan Claria, Peter Gh Clarke, Robert Clarke, Emilio Clementi, Cedric Cleyrat, Miriam Cnop, Eliana M Coccia, Tiziana Cocco, Patrice Codogno, Jorn Coers, Ezra Ew Cohen, David Colecchia, Luisa Coletto, Nuria S Coll, Emma Colucci-Guyon, Sergio Comincini, Maria Condello, Katherine L Cook, Graham H Coombs, Cynthia D Cooper, J Mark Cooper, Isabelle Coppens, Maria Tiziana Corasaniti, Marco Corazzari, Ramon Corbalan, Elisabeth Corcelle-Termeau, Mario D Cordero, Cristina Corral-Ramos, Olga Corti, Andrea Cossarizza, Paola Costelli, Safia Costes, Susan L Cotman, Ana Coto-Montes, Sandra Cottet, Eduardo Couve, Lori R Covey, L Ashley Cowart, Jeffery S Cox, Fraser P Coxon, Carolyn B Coyne, Mark S Cragg, Rolf J Craven, Tiziana Crepaldi, Jose L Crespo, Alfredo Criollo, Valeria Crippa, Maria Teresa Cruz, Ana Maria Cuervo, Jose M Cuezva, Taixing Cui, Pedro R Cutillas, Mark J Czaja, Maria F Czyzyk-Krzeska, Ruben K Dagda, Uta Dahmen, Chunsun Dai, Wenjie Dai, Yun Dai, Kevin N Dalby, Luisa Dalla Valle, Guillaume Dalmaso, Marcello D'Amelio, Markus Damme, Arlette Darfeuille-Michaud, Catherine Dargemont, Victor M Darley-Usmar, Srinivasan Dasarathy, Biplab Dasgupta, Srikanta Dash, Crispin R Dass, Hazel Marie Davey, Lester M Davids, David Davila, Roger J Davis, Ted M Dawson, Valina L Dawson, Paula Daza, Jackie de Bellerche, Paul de Figueiredo, Regina Celia Bressan Queiroz de Figueiredo, Jose de la Fuente, Luisa De Martino, Antonella De Matteis, Guido Ry De Meyer, Angelo De Milito, Mauro De Santi, Wanderley de Souza, Vincenzo De Tata, Daniela De Zio, Jayanta Debnath, Reinhard Dechant, Jean-Paul Decuyper, Shane Deegan, Benjamin Dehay, Barbara Del Bello, Dominic P Del Re, Regis Delage-Mourroux, Lea Md Delbridge, Louise Deldicque, Elizabeth Delorme-Axford, Yizhen Deng, Joern Dengjel, Melanie Denizot, Paul Dent, Channing J Der, Vojko Deretic, Benoit Derrien, Eric Deutsch, Timothy P Devarenne, Rodney J Devenish, Sabrina Di Bartolomeo, Nicola Di Daniele, Fabio Di Domenico, Alessia Di Nardo, Simone Di Paola, Antonio Di Pietro, Livia Di Renzo, Aaron DiAntonio, Guillermo Diaz-Araya, Ines Diaz-Laviada, Maria T Diaz-Meco, Javier Diaz-Nido, Chad A Dickey, Robert C Dickson, Marc Diederich, Paul Digard, Ivan Dikic, Savithrama P Dinesh-Kumar, Chan Ding, Wen-Xing Ding, Zufeng Ding, Luciana Dini, Jorg Hw Distler, Abhinav Diwan, Mojgan Djavaheri-Mergny, Kostyantyn Dmytruk, Renwick Cj Dobson, Volker Doetsch, Karol Dokladny, Svetlana Dokudovskaya, Massimo Donadelli, X Charlie Dong, Xiaonan Dong, Zheng Dong, Terrence M Jr Donohue, Kelly S Doran, Gabriella D'Orazi, Gerald W 2nd Dorn, Victor Dosenko, Sami Dridi, Liat Drucker, Jie Du, Li-Lin Du, Lihuan Du, Andre du Toit, Priyamvada Dua, Lei Duan, Pu Duann, Vikash Kumar Dubey, Michael R Duchon, Michel A Duchosal, Helene Duez, Isabelle Dugail, Veronica I Dumit, Mara C Duncan, Elaine A Dunlop, William A Jr Dunn, Nicolas Dupont, Luc Dupuis, Raul V Duran, Thomas M Durcan, Stephane Duvezin-Caubet, Umamaheswar Duvvuri, Vinay Eapen, Darius Ebrahimi-Fakhari, Arnaud Echard, Leopold Eckhart, Charles L Edelstein, Aimee L Edinger, Ludwig Eichinger, Tobias Eisenberg, Avital Eisenberg-Lerner, N Tony Eissa, Wafik S El-Deiry, Victoria El-Khoury, Zvulun Elazar, Hagit

Eldar-Finkelman, Chris Jh Elliott, Enzo Emanuele, Urban Emmenegger, Nikolai Engedal, Anna-Mart Engelbrecht, Simone Engelender, Jorrit M Enserink, Ralf Erdmann, Jekaterina Erenpreisa, Rajaraman Eri, Jason L Eriksen, Andreja Erman, Ricardo Escalante, Eeva-Liisa Eskelinen, Lucile Espert, Lorena Esteban-Martinez, Thomas J Evans, Mario Fabri, Gemma Fabrias, Cinzia Fabrizi, Antonio Facchiano, Nils J Faergeman, Alberto Faggioni, W Douglas Fairlie, Chunhai Fan, Daping Fan, Jie Fan, Shengyun Fang, Manolis Fanto, Alessandro Fanzani, Thomas Farkas, Mathias Faure, Francois B Favier, Howard Fearnhead, Massimo Federici, Erkang Fei, Tania C Felizardo, Hua Feng, Yibin Feng, Yuchen Feng, Thomas A Ferguson, Alvaro F Fernandez, Maite G Fernandez-Barrena, Jose C Fernandez-Checa, Arsenio Fernandez-Lopez, Martin E Fernandez-Zapico, Olivier Feron, Elisabetta Ferraro, Carmen Verissima Ferreira-Halder, Laszlo Fesus, Ralph Feuer, Fabienne C Fiesel, Eduardo C Filippi-Chiela, Giuseppe Filomeni, Gian Maria Fimia, John H Fingert, Steven Finkbeiner, Toren Finkel, Filomena Fiorito, Paul B Fisher, Marc Flajolet, Flavio Flamigni, Oliver Florey, Salvatore Florio, R Andres Floto, Marco Folini, Carlo Follo, Edward A Fon, Francesco Fornai, Franco Fortunato, Alessandro Fraldi, Rodrigo Franco, Arnaud Francois, Aurelie Francois, Lisa B Frankel, Iain Dc Fraser, Norbert Frey, Damien G Freyssenet, Christian Frezza, Scott L Friedman, Daniel E Frigo, Dongxu Fu, Jose M Fuentes, Juan Fueyo, Yoshio Fujitani, Yuuki Fujiwara, Mikihiro Fujiya, Mitsunori Fukuda, Simone Fulda, Carmela Fusco, Bozena Gabryel, Matthias Gaestel, Philippe Gailly, Malgorzata Gajewska, Sehamuddin Galadari, Gad Galili, Inmaculada Galindo, Maria F Galindo, Giovanna Gallicioti, Lorenzo Galluzzi, Luca Galluzzi, Vincent Galy, Noor Gammoh, Sam Gandy, Anand K Ganesan, Swamynathan Ganesan, Ian G Ganley, Monique Gannage, Fen-Biao Gao, Feng Gao, Jian-Xin Gao, Lorena Garcia Nannig, Eleonora Garcia Vescovi, Marina Garcia-Macia, Carmen Garcia-Ruiz, Abhishek D Garg, Pramod Kumar Garg, Ricardo Gargini, Nils Christian Gassen, Damian Gatica, Evelina Gatti, Julie Gavard, Evripidis Gavathiotis, Liang Ge, Pengfei Ge, Shengfang Ge, Po-Wu Gean, Vania Gelmetti, Armando A Genazzani, Jiefei Geng, Pascal Genschik, Lisa Gerner, Jason E Gestwicki, David A Gewirtz, Saeid Ghavami, Eric Ghigo, Debabrata Ghosh, Anna Maria Giammarioli, Francesca Giampieri, Claudia Giampietri, Alexandra Giatromanolaki, Derrick J Gibbings, Lara Gibellini, Spencer B Gibson, Vanessa Ginat, Antonio Giordano, Flaviano Giorgini, Elisa Giovannetti, Stephen E Girardin, Suzana Gispert, Sandy Giuliano, Candece L Gladson, Alvaro Glavic, Martin Gleave, Nelly Godefroy, Robert M Jr Gogal, Kuppan Gokulan, Gustavo H Goldman, Delia Goletti, Michael S Goligorsky, Aldrin V Gomes, Ligia C Gomes, Hernando Gomez, Candelaria Gomez-Manzano, Ruben Gomez-Sanchez, Dawit Ap Goncalves, Ebru Goncu, Qingqiu Gong, Celine Gongora, Carlos B Gonzalez, Pedro Gonzalez-Alegre, Pilar Gonzalez-Cabo, Rosa Ana Gonzalez-Polo, Ing Swie Goping, Carlos Gorbea, Nikolai V Gorbunov, Daphne R Goring, Adrienne M Gorman, Sharon M Gorski, Sandro Goruppi, Shino Goto-Yamada, Cecilia Gotor, Roberta A Gottlieb, Illana Gozes, Devrim Gozuacik, Yacine Graba, Martin Graef, Giovanna E Granato, Gary Dean Grant, Steven Grant, Giovanni Luca Gravina, Douglas R Green, Alexander Greenhough, Michael T Greenwood, Benedetto Grimaldi, Frederic Gros, Charles Grose, Jean-Francois Groulx, Florian Gruber, Paolo Grumati, Tilman Grune, Jun-Lin Guan, Kun-Liang Guan, Barbara Guerra, Carlos Guillen, Kailash Gulshan, Jan Gunst, Chuanyong Guo, Lei Guo, Ming Guo, Wenjie Guo, Xu-Guang Guo, Andrea A Gust, Asa B Gustafsson, Elaine Gutierrez, Maximiliano G Gutierrez, Ho-Shin Gwak, Albert Haas, James E Haber, Shinji Hadano, Monica Hagedorn, David R Hahn, Andrew J Halayko, Anne Hamacher-Brady, Kozo Hamada, Ahmed Hamai, Andrea Hamann, Maho Hamasaki, Isabelle Hamer, Qutayba Hamid, Ester M Hammond, Feng Han, Weidong Han, James T Handa, John A Hanover, Malene Hansen, Masaru Harada, Ljubica Harhaji-Trajkovic, J Wade Harper, Abdel Halim Harrath, Adrian L Harris, James Harris, Udo Hasler, Peter Hasselblatt, Kazuhisa Hasui, Robert G Hawley, Teresa S Hawley, Congcong He, Cynthia Y He, Fengtian He, Gu He, Rong-Rong He, Xian-Hui He, You-Wen He, Yu-Ying He, Joan K Heath, Marie-Josée Hebert, Robert A Heizen, Gudmundur Vignir Helgason, Michael Hensel, Elizabeth P Henske, Chengtao Her, Paul K Herman, Agustin Hernandez, Carlos Hernandez, Sonia Hernandez-Tiedra, Claudio Hetz, P Robin Hiesinger, Katsumi Higaki, Sabine Hilfiker, Bradford G Hill, Joseph A Hill, William D Hill, Keisuke Hino, Daniel Hofius, Paul Hofman, Gunter U Hoglinger, Jorg Hohfeld, Marina K Holz, Yonggeun Hong, David A Hood, Jeroen Jm Hoozemans, Thorsten Hoppe, Chin Hsu, Chin-Yuan Hsu, Li-Chung Hsu, Dong Hu, Guochang Hu, Hong-Ming Hu, Hongbo Hu, Ming Chang Hu, Yu-Chen Hu, Zhuo-Wei Hu, Fang Hua, Ya Hua, Canhua Huang, Huey-Lan Huang, Kuo-How Huang, Kuo-Yang Huang, Shile Huang, Shiqian Huang, Wei-Pang Huang, Yi-Ran Huang, Yong Huang, Yunfei Huang, Tobias B Huber, Patricia Huebbe, Won-Ki Huh, Juha J Hulmi, Gang Min Hur, James H Hurley, Zvenyslava Husak, Sabah Na Hussain, Salik Hussain, Jung Jin Hwang, Seungmin Hwang, Thomas Is Hwang, Atsuhiko Ichihara, Yuzuru Imai, Carol Imbriano, Megumi Inomata, Takeshi Into, Valentina Iovane, Juan L Iovanna, Renato V Iozzo, Nancy Y Ip, Javier E Irazoqui, Pablo Iribarren, Yoshitaka Isaka, Aleksandra J Isakovic, Harry Ischiropoulos, Jeffrey S Isenberg, Mohammad Ishaq, Hiroyuki Ishida, Isao Ishii, Jane E Ishmael, Ciro Isidoro, Ken-Ichi Isobe, Erika Isono, Shohreh Issazadeh-Navikas, Koji Itahana, Eisuke Itakura, Andrei I Ivanov, Anand Krishnan V Iyer, Jose M Izquierdo, Yotaro Izumi, Valentina Izzo, Marja Jaattela, Nadia Jaber, Daniel John Jackson, William T Jackson, Tony George Jacob, Thomas S Jacques, Chinnaswamy Jagannath, Ashish Jain, Nihar Ranjan Jana, Byoung Kuk Jang, Alkesh Jani, Bassam Janji, Paulo Roberto Jannig, Patric J Jansson, Steve Jean, Marina Jendrach, Ju-Hong Jeon, Niels Jessen, Eui-Bae Jeung, Kailiang Jia, Lijun Jia, Hong Jiang, Hongchi Jiang, Liwen Jiang, Teng Jiang, Xiaoyan Jiang, Xuejun Jiang, Xuejun Jiang, Ying Jiang, Yongjun Jiang, Alberto Jimenez, Cheng Jin, Hongchuan Jin, Lei Ji, Meiyang Jin, Shengkan Jin, Umesh Kumar Jinwal, Eun-Kyeong Jo, Terje Johansen, Daniel E Johnson, Gail Vw Johnson, James D Johnson, Eric Jonasz, Chris Jones, Leo Ab Joosten, Joaquin Jordan, Anna-Maria Joseph, Bertrand Joseph, Annie M Joubert, Dianwen Ju, Jingfang Ju, Hsueh-Fen Juan, Konrad Juenemann, Gabor Juhasz, Hye Seung Jung, Jae U Jung, Yong-Keun Jung, Heinz Jungbluth, Matthew J Justice, Barry Jutten, Nadeem O Kaakoush, Kai Kaarniranta, Allen Kaasik, Tomohiro Kabuta, Bertrand Kaeffer, Katarina Kagedal, Alon Kahana, Shingo Kajimura, Or Kakhlon, Manjula Kalia, Dhan V Kalvakolanu, Yoshiaki Kamada, Konstantinos Kambas, Vitaliy O Kaminsky, Harm H Kampinga, Mustapha Kandouz, Chanhee Kang, Rui Kang, Tae-Cheon Kang, Tomotake Kanki, Thirumala-Devi Kanneganti, Haruo Kanno, Anumantha G Kanthasamy, Marc Kantorow, Maria Kaparakis-Liaskos, Orsolya Kapuy, Vassiliki Karantz, Md Razaul Karim, Parimal Karmakar, Arthur Kaser, Susmita Kaushik, Thomas Kawula, A Murat Kaynar, Po-Yuan Ke, Zun-Ji Ke, John H Kehrl, Kate E Keller, Jongsook Kim Kemper, Anne K Kenworthy, Oliver Kepp, Andreas Kern, Santosh Kesari, David Kessel, Robin Ketteler, Isis do Carmo Kettelhut, Bilon Khambu, Muzamil Majid Khan, Vinoth Km Khandelwal, Sangeeta Khare, Juliann G Kiang, Amy A Kiger, Akio Kihara, Arianna L Kim, Cheol Hyeon Kim, Deok Ryong Kim, Do-Hyung Kim, Eung Kweon Kim, Hye Young Kim, Hyung-Ryong Kim, Jae-Sung Kim, Jeong Hun Kim, Jin Cheon Kim, Jin Hyoung Kim, Kwang Woon Kim, Michael D Kim, Moon-Moo Kim, Peter K Kim, Seong Who Kim, Soo-Youl Kim, Yong-Sun Kim, Yonghyun Kim, Adi Kimchi, Alec C Kimmelman, Tomonori Kimura, Jason S King, Karla Kirkegaard, Vladimir Kirkin, Lorrie A Kirshenbaum, Shuji Kishi, Yasuo Kitajima, Katsuhiko Kitamoto, Yasushi Kitaoka, Kaio Kitazato, Rudolf A Kley, Walter T Klimecki, Michael Klinkenberg, Jochen Klucken, Helene Knaevelsrud, Erwin Knecht, Laura Knuppertz, Jiunn-Liang Ko, Satoru Kobayashi, Jan C Koch, Christelle Koechlin-Ramonatxo, Ulrich Koenig, Young Ho Koh, Katja Kohler, Sepp D Kohlwein, Masato Koike, Masaaki Komatsu, Eiki Kominami, Dexin Kong, Hee Jeong Kong, Eumorphia G Konstantakou, Benjamin T Kopp, Tamas Korcsmaros, Laura Korhonen, Viktor I Korolchuk, Nadya V Koshkina, Yanjun Kou, Michael I Koukourakis, Constantinos Koumenis, Attila L Kovacs, Tibor Kovacs, Werner J Kovacs, Daisuke Koya, Claudine Kraft, Dimitri Krainc, Helmut Kramer, Tamara Kravic-Stevovic, Wilhelm Krek, Carole Kretz-Remy, Roswitha Krick, Malathi Krishnamurthy, Janos Kriston-Vizi, Guido Kroemer, Michael C Krueger, **Rejko Krueger**, Nicholas T Ktistakis, Kazuyuki Kuchitsu, Christian Kuhn, Addanki Pratap Kumar, Anuj Kumar, Ashok Kumar, Deepak Kumar, Dhiraj Kumar, Rakesh Kumar, Sharad Kumar, Mondira Kundu, Hsing-Jien Kung, Atsushi Kuno, Sheng-Han Kuo, Jeff Kuret, Tino Kurz, Terry Kwok, Taeg Kyu Kwon, Yong Tae Kwon, Irene Kyrnizi, Albert R La Spada, Frank Lafont, Tim Lahm, Aparna Lakkaraju, Truong Lam, Trond Lamark, Steve Lancel, Terry H Landowski, Darius J R Lane, Jon D Lane, Cinzia Lanzi, Pierre Lapaquette, Louis R Lapierre, Jocelyn Laporte, Johanna Laukkarinen, Gordon W Laurie, Sergio Lavandero, Lena Lavie, Matthew J LaVoie, Betty Yuen Kwan Law, Helen Ka-Wai Law, Kelsey B Law, Robert Layfield, Pedro A Lazo, Laurent Le Cam, Karine G Le Roch, Herve Le Stunff, Vijitra Leardkamolkarn, Marc Lecuit, Byung-Hoon Lee, Che-Hsin Lee, Erinna F Lee, Gyun Min Lee, He-Jin Lee, Hsinyu Lee, Jae Keun Lee, Jongdae Lee, Ju-Hyun Lee, Jun Hee Lee, Michael Lee, Myung-Shik Lee, Patty J Lee, Sam W Lee, Seung-Jae Lee, Shioh-Ju Lee, Stella Y Lee, Sug Hyung Lee, Sung Sik Lee, Sung-Joon Lee, Sunhee Lee, Ying-Ray Lee, Yong J Lee, Young H Lee, Christiaan Leeuwenburgh, Sylvain Lefort, Renaud Legouis, Jinzhi Lei, Qun-Ying Lei, David A Leib, Gil Leibowitz, Istvan Lekli, Stephane D Lemaire, John J

Lemasters, Marius K Lemberg, Antoinette Lemoine, Shuilong Leng, Guido Lenz, Paola Lenzi, Lilach O Lerman, Daniele Lettieri Barbato, Julia I-Ju Leu, Hing Y Leung, Beth Levine, Patrick A Lewis, Frank Lezoualch, Chi Li, Faqiang Li, Feng-Jun Li, Jun Li, Ke Li, Lian Li, Min Li, Min Li, Qiang Li, Rui Li, Sheng Li, Wei Li, Wei Li, Xiaotao Li, Yumin Li, Jiqin Lian, Chengyu Liang, Qiangrong Liang, Yulin Liao, Joana Liberal, Pawel P Liberski, Pearl Lie, Andrew P Lieberman, Hyunjung Jade Lim, Kah-Leong Lim, Kyu Lim, Raquel T Lima, Chang-Shen Lin, Chiou-Feng Lin, Fang Lin, Fangming Lin, Fu-Cheng Lin, Kui Lin, Kwang-Huei Lin, Pei-Hui Lin, Tianwei Lin, Wan-Wan Lin, Yee-Shin Lin, Yong Lin, Rafael Linden, Dan Lindholm, Lisa M Lindqvist, Paul Lingor, Andreas Linkermann, Lance A Liotta, Marta M Lipinski, Vitor A Lira, Michael P Lisanti, Paloma B Liton, Bo Liu, Chong Liu, Chun-Feng Liu, Fei Liu, Hung-Jen Liu, Jianxun Liu, Jing-Jing Liu, Jing-Lan Liu, Ke Liu, Leyuan Liu, Liang Liu, Quentin Liu, Rong-Yu Liu, Shiming Liu, Shuwen Liu, Wei Liu, Xian-De Liu, Xiangguo Liu, Xiao-Hong Liu, Xinfeng Liu, Xu Liu, Xueqin Liu, Yang Liu, Yule Liu, Zexian Liu, Zhe Liu, Juan P Liuzzi, Gerard Lizard, Mila Ljubic, Irfan J Lodhi, Susan E Logue, Bal L Lokeshwar, Yun Chau Long, Sagar Lonial, Benjamin Loos, Carlos Lopez-Otin, Cristina Lopez-Vicario, Mar Lorente, Philip L Lorenzi, Peter Lorincz, Marek Los, Michael T Lotze, Penny E Lovat, Binfeng Lu, Bo Lu, Jiahong Lu, Qing Lu, She-Min Lu, Shuyan Lu, Yingying Lu, Frederic Luciano, Shirley Luckhart, John Milton Lucocq, Paula Ludovico, Aurelia Lugea, Nicholas W Lukacs, Julian J Lum, Anders H Lund, Honglin Luo, Jia Luo, Shouqing Luo, Claudio Luparello, Timothy Lyons, Jianjie Ma, Yi Ma, Yong Ma, Zhenyi Ma, Juliano Machado, Glauca M Machado-Santelli, Fernando Macian, Gustavo C MacIntosh, Jeffrey P MacKeigan, Kay F Macleod, John D MacMicking, Lee Ann MacMillan-Crow, Frank Madeo, Muniswamy Madesh, Julio Madrigal-Matute, Akiko Maeda, Tatsuya Maeda, Gustavo Maegawa, Emilia Maellaro, Hannelore Maes, Marta Magarinos, Kenneth Maiese, Tapas K Maiti, Luigi Maiuri, Maria Chiara Maiuri, Carl G Maki, Roland Malli, Walter Malorni, Alina Maloyan, Fathia Mami-Chouaib, Na Man, Joseph D Mancias, Eva-Maria Mandelkow, Michael A Mandell, Angelo A Manfredi, Serge N Manie, Claudia Manzoni, Kai Mao, Zixu Mao, Zong-Wan Mao, Philippe Marambaud, Anna Maria Marconi, Zvonimir Marelja, Gabriella Marfe, Marta Margeta, Eva Margittai, Muriel Mari, Francesca V Mariani, Concepcio Marin, Sara Marinelli, Guillermo Marino, Ivanka Markovic, Rebecca Marquez, Alberto M Martelli, Sascha Martens, Katie R Martin, Seamus J Martin, Shaun Martin, Miguel A Martin-Acebes, Paloma Martin-Sanz, Camille Martinand-Mari, Wim Martinet, Jennifer Martinez, Nuria Martinez-Lopez, Ubaldo Martinez-Outschoorn, Moises Martinez-Velazquez, Marta Martinez-Vicente, Waleska Kerllen Martins, Hirosato Mashima, James A Mastroianni, Giuseppe Matarese, Paola Matarrese, Roberto Mateo, Satoaki Matoba, Naomichi Matsumoto, Takehiko Matsushita, Akira Matsuura, Takeshi Matsuzawa, Mark P Mattson, Soledad Matus, Norma Maugeri, Caroline Mauvezin, Andreas Mayer, Dusica Maysinger, Guillermo D Mazzolini, Mary Kate McBrayer, Kimberly McCall, Craig McCormick, Gerald M McInerney, Skye C McIver, Sharon McKenna, John J McMahon, Iain A McNeish, Fatima Mehta-Grigoriou, Jan Paul Medema, Diego L Medina, Klara Megyeri, Maryam Mehrpour, Jawahar L Mehta, Yide Mei, Ute-Christiane Meier, Alfred J Meijer, Alicia Melendez, Gerry Melino, Sonia Melino, Edesio Jose Tenorio de Melo, Maria A Mena, Marc D Meneghini, Javier A Menendez, Regina Menezes, Liesu Meng, Ling-Hua Meng, Songshu Meng, Rossella Menghini, A Sue Menko, Rubem Fs Menna-Barreto, Manoj B Menon, Marco A Meraz-Rios, Giuseppe Merla, Luciano Merlini, Angelica M Merlot, Andreas Meryk, Stefania Meschini, Joel N Meyer, Man-Tian Mi, Chao-Yu Miao, Lucia Micala, Simon Michaeli, Carine Michiels, Anna Rita Migliaccio, Anastasia Susie Mihailidou, Dalibor Mijaljica, Katsuhiko Mikoshiba, Enrico Milan, Leonor Miller-Fleming, Gordon B Mills, Ian G Mills, Georgia Minakaki, Berge A Minassian, Xiu-Fen Ming, Farida Minibayeva, Elena A Minina, Justine D Mintern, Saverio Minucci, Antonio Miranda-Vizuete, Claire H Mitchell, Shigeki Miyamoto, Keisuke Miyazawa, Noboru Mizushima, Katarzyna Mnich, Baharia Mograbi, Simin Mohseni, Luis Ferreira Moita, Marco Molinari, Maurizio Molinari, Andreas Buch Moller, Bertrand Mollereau, Faustino Mollinedo, Marco Mongillo, Martha M Monick, Serena Montagnaro, Craig Montell, Darren J Moore, Michael N Moore, Rodrigo Mora-Rodriguez, Paula I Moreira, Etienne Morel, Maria Beatrice Morelli, Sandra Moreno, Michael J Morgan, Arnaud Moris, Yuji Moriyasu, Janna L Morrison, Lynda A Morrison, Eugenia Morselli, Jorge Moscat, Pope L Moseley, Serge Mostowy, Elisa Motori, Denis Mottet, Jeremy C Mottram, Charbel E-H Moussa, Vassiliki E Mpakou, Hasan Mukhtar, Jean M Mulcahy Levy, Sylviane Muller, Raquel Munoz-Moreno, Cristina Munoz-Pinedo, Christian Munz, Maureen E Murphy, James T Murray, Aditya Murthy, Indira U Mysorekar, Ivan R Nabi, Massimo Nabissi, Gustavo A Nader, Yukitoshi Nagahara, Yoshitaka Nagai, Kazuhiro Nagata, Anika Nagelkerke, Peter Nagy, Samisubbu R Naidu, Sreejayan Nair, Hiroyasu Nakano, Hitoshi Nakatogawa, Meera Nanjundan, Gennaro Napolitano, Naweed I Naqvi, Roberta Nardacci, Derek P Narendra, Masashi Narita, Anna Chiara Nascimbeni, Ramesh Natarajan, Luiz C Navegantes, Steffan T Nawrocki, Taras Y Nazarko, Volodymyr Y Nazarko, Thomas Neill, Luca M Neri, Mihai G Netea, Romana T Netea-Maier, Bruno M Neves, Paul A Ney, Ioannis P Nezis, Hang Tt Nguyen, Huu Phuc Nguyen, Anne-Sophie Nicot, Hilde Nilsen, Per Nilsson, Mikio Nishimura, Ichizo Nishino, Mireia Niso-Santano, Hua Niu, Ralph A Nixon, Vincent Co Njar, Takeshi Noda, Angelika A Noegel, Elsie Magdalena Nolte, Erik Norberg, Koenraad K Norga, Sakineh Kazemi Noureini, Shoji Notomi, Lucia Notterpek, Karin Nowikovsky, Nobuyuki Nukina, Thorsten Nurnberger, Valerie B O'Donnell, Tracey O'Donovan, Peter J O'Dwyer, Ina Oehme, Clara L Oeste, Michinaga Ogawa, Besim Ogretmen, Yuji Ogura, Young J Oh, Masaki Ohmuraya, Takayuki Ohshima, Rani Ojha, Koji Okamoto, Toshiro Okazaki, F Javier Oliver, Karin Ollinger, Stefan Olsson, Daniel P Orban, Paulina Ordonez, Idil Orhon, Laszlo Orosz, Eyleen J O'Rourke, Helena Orozco, Angel L Ortega, Elena Ortona, Laura D Osellame, Junko Oshima, Shigeru Oshima, Heinz D Osiewacz, Takanobu Otomo, Kinya Otsu, Jing-Hsiung James Ou, Tiago F Outeiro, Dong-Yun Ouyang, Hongjjiao Ouyang, Michael Overholzer, Michelle A Ozbun, P Hande Ozdinler, Bulent Ozpolat, Consiglia Pacelli, Paolo Paganetti, Guylene Page, Gilles Pages, Ugo Pagnini, Beata Pajak, Stephen C Pak, Karolina Pakos-Zebrucka, Nazy Pakpour, Zdena Palkova, Francesca Palladino, Kathrin Pallauf, Nicolas Pallet, Marta Palmieri, Soren R Paludan, Camilla Palumbo, Silvia Palumbo, Olatz Pampliega, Hongming Pan, Wei Pan, Theocharis Panaretakis, Aseem Pandey, Areti Pantazopoulou, Zuzana Papackova, Daniela L Papademetrio, Issidora Papassideri, Alessio Papini, Nirmala Parajuli, Julian Pardo, Vrajesh V Parekh, Giancarlo Parenti, Jong-In Park, Junsoo Park, Ohkmae K Park, Roy Parker, Rosanna Parlato, Jan B Parys, Katherine R Parzych, Jean-Max Pasquet, Benoit Pasquier, Kishore Bs Pasumarthi, Daniel Patschan, Cam Patterson, Sophie Pattingre, Scott Pattison, Arnim Pause, Hermann Pavenstadt, Flaminia Pavone, Zully Pedrozo, Fernando J Pena, Miguel A Penalva, Mario Pende, Jianxin Peng, Fabio Penna, Josef M Penninger, Anna Pensalfini, Salvatore Pepe, Gustavo Js Pereira, Paulo C Pereira, Veronica Perez-de la Cruz, Maria Esther Perez-Perez, Diego Perez-Rodriguez, Dolores Perez-Sala, Celine Perier, Andras Perl, David H Perlmutter, Ida Perrotta, Shazib Pervaiz, Maija Pesonen, Jeffrey E Pessin, Godefridus J Peters, Morten Petersen, Irina Petrache, Basil J Petrof, Goran Petrovski, James M Phang, Mauro Piacentini, Marina Pierdominici, Philippe Pierre, Valerie Pierrefite-Carle, Federico Pietrocola, Felipe X Pimentel-Muinos, Mario Pinar, Benjamin Pineda, Ronit Pinkas-Kramarski, Marcello Pinti, Paolo Pinton, Bilal Piperdi, James M Piret, Leonidas C Plataniias, Harald W Platta, Edward D Plowey, Stefanie Poggeler, Marc Poirot, Peter Polcic, Angelo Poletti, Audrey H Poon, Hana Popelka, Blagovesta Popova, Izabela Poprawa, Shibu M Poulouse, Joanna Poulton, Scott K Powers, Ted Powers, Mercedes Pozuelo-Rubio, Krisna Prak, Reinhild Prange, Mark Prescott, Muriel Priault, Sharon Prince, Richard L Proia, Tassula Proikas-Cezanne, Holger Prokisch, Vasilis J Promponas, Karin Przyklenk, Rosa Puertollano, Subbiah Pugazhenthai, Luigi Puglielli, Aurora Pujol, Julien Puyal, Dohun Pyeon, Xin Qi, Wen-Bin Qian, Zheng-Hong Qin, Yu Qiu, Ziwei Qu, Joe Quadrilatero, Frederick Quinn, Nina Raben, Hannah Rabinowich, Flavia Radogna, Michael J Ragusa, Mohamed Rahmani, Komal Raina, Sasanka Ramanadham, Rajagopal Ramesh, Abdelhaq Rami, Sarron Randall-Demillo, Felix Randow, Hai Rao, V Ashutosh Rao, Blake B Rasmussen, Tobias M Rasse, Edward A Ratovitski, Pierre-Emmanuel Rautou, Swapan K Ray, Babak Razani, Bruce H Reed, Fulvio Reggiori, Markus Rehm, Andreas S Reichert, Theo Rein, David J Reiner, Eric Reits, Jun Ren, Xingcong Ren, Maurizio Renna, Jane Eb Reusch, Jose L Revuelta, Leticia Reyes, Alireza R Rezaie, Robert I Richards, Des R Richardson, Clemence Richetta, Michael A Riehle, Bertrand H Rihn, Yasuko Rikihisa, Brigit E Riley, Gerald Rimbach, Maria Rita Rippo, Konstantinos Ritis, Federica Rizzi, Elizete Rizzo, Peter J Roach, Jeffrey Robbins, Michel Roberge, Gabriela Roca, Maria Carmela Roccheri, Sonia Rocha, Cecilia Mp Rodrigues, Clara I Rodriguez, Santiago Rodriguez de Cordoba, Natalia Rodriguez-Muela, Jeroen Roelofs, Vladimir V Rogov, Troy T Rohn, Barbel Rohrer, Davide Romanelli, Luigina Romani, Patricia Silvia Romano, M Isabel G Roncero, Jose Luis Rosa, Alicia Rosello, Kirill V Rosen, Philip Rosenstiel, Magdalena Rost-Roszkowska, Kevin A Roth, Gael Roue, Mustapha Rouis, Kasper M Rouschop, Daniel T Ruan, Diego Ruano, David C Rubinsztein, Edmund B 3rd Rucker, Assaf Rudich, Emil Rudolf, Ruediger Rudolf, Markus A Ruegg, Carmen Ruiz-Roldan, Avnika Ashok Ruparelia, Paola Rusmini, David W Russ, Gian Luigi Russo, Giuseppe Russo, Rossella Russo, Tor Erik Rusten, Victoria



Ryabovol, Kevin M Ryan, Stefan W Ryter, David M Sabatini, Michael Sacher, Carsten Sachse, Michael N Sack, Junichi Sadoshima, Paul Saftig, Ronit Sagi-Eisenberg, Sumit Sahni, Pothana Saikumar, Tsunenori Saito, Tatsuya Saitoh, Koichi Sakakura, Machiko Sakoh-Nakatogawa, Yasuhito Sakuraba, Maria Salazar-Roa, Paolo Salomoni, Ashok K Saluja, Paul M Salvaterra, Rosa Salvioli, Afshin Samali, Anthony Mj Sanchez, Jose A Sanchez-Alcazar, Ricardo Sanchez-Prieto, Marco Sandri, Miguel A Sanjuan, Stefano Santaguida, Laura Santambrogio, Giorgio Santoni, Claudia Nunes Dos Santos, Shweta Saran, Marco Sardiello, Graeme Sargent, Pallabi Sarkar, Sovan Sarkar, Maria Rosa Sarrias, Minnie M Sarwal, Chihiro Sasakawa, Motoko Sasaki, Miklos Sass, Ken Sato, Miyuki Sato, Joseph Satriano, Niramol Savaraj, Svetlana Saveljeva, Liliana Schaefer, Ulrich E Schaible, Michael Scharf, Hermann M Schatzl, Randy Schekman, Wiep Scheper, Alfonso Schiavi, Hyman M Schipper, Hana Schmeisser, Jens Schmidt, Ingo Schmitz, Bianca E Schneider, E Marion Schneider, Jaime L Schneider, Eric A Schon, Miriam J Schonenberger, Axel H Schonthal, Daniel F Schorderet, Bernd Schroder, Sebastian Schuck, Ryan J Schulze, Melanie Schwarten, Thomas L Schwarz, Sebastiano Sciarretta, Kathleen Scotto, A Ivana Scovassi, Robert A Screation, Mark Screen, Hugo Seca, Simon Sedej, Laura Segatori, Nava Segev, Per O Seglen, Jose M Segui-Simarro, Juan Segura-Aguilar, Ekihiro Seki, Christian Sell, Iban Seilliez, Clay F Semenkovich, Gregg L Semenza, Utpal Sen, Andreas L Serra, Ana Serrano-Puebla, Hiromi Sesaki, Takao Setoguchi, Carmine Settembre, John J Shacka, Aysha N Shajahan-Haq, Irving M Shapiro, Shweta Sharma, Hua She, C-K James Shen, Chiung-Chyi Shen, Han-Ming Shen, Sanbing Shen, Weili Shen, Rui Sheng, Xianyong Sheng, Zu-Hang Sheng, Trevor G Shepherd, Junyan Shi, Qiang Shi, Qinghua Shi, Yuguang Shi, Shusaku Shibutani, Kenichi Shibuya, Yoshihiro Shidoji, Jeng-Zu Shieh, Chwen-Ming Shih, Yohta Shimada, Shigeomi Shimizu, Dong Wook Shin, Mari L Shinohara, Michiko Shintani, Takahiro Shintani, Tetsuo Shioi, Ken Shirabe, Ronit Shiri-Sverdlow, Orian Shirihai, Gordon C Shore, Chih-Wen Shu, Deepak Shukla, Andriy A Sibirny, Valentina Sica, Christina J Sigurdson, Einar M Sigurdsson, Puran Singh Sijwali, Beata Sikorska, Wilian A Silveira, Sandrine Silvente-Poirot, Gary A Silverman, Jan Simak, Thomas Simmet, Anna Katharina Simon, Hans-Uwe Simon, Cristiano Simone, Matias Simons, Anne Simonsen, Rajat Singh, Shivendra V Singh, Shrawan K Singh, Debasish Sinha, Sangita Sinha, Frank A Sinicrope, Agnieszka Sirko, Kapil Sirohi, Balindiwe Jn Sishi, Annie Sittler, Parco M Siu, Efthimios Sivridis, Anna Skwarska, Ruth Slack, Iva Slaninova, Nikolai Slavov, Soraya S Smaili, Keiran Sm Smalley, Duncan R Smith, Stefaan J Soenen, Scott A Soleimanpour, Anita Solhaug, Kumaravel Somasundaram, Jin H Son, Avinash Sonawane, Chunjuan Song, Fuyong Song, Hyun Kyu Song, Ju-Xian Song, Wei Song, Kai Y Soo, Anil K Sood, Tuck Wah Soong, Virawudh Soontornniyomkij, Maurizio Sorice, Federica Sotgia, David R Soto-Pantoja, Areechun Sothibundhu, Maria Joao Sousa, Herman P Spaink, Paul N Span, Anne Spang, Janet D Sparks, Peter G Speck, Stephen A Spector, Claudia D Spies, Wolfdieter Springer, Daret St Clair, Alessandra Stacchiotti, Bart Staels, Michael T Stang, Daniel T Starczynowski, Petro Starokadomskyy, Clemens Steegborn, John W Steele, Leonidas Stefanis, Joan Steffan, Christine M Stelrecht, Harald Stenmark, Tomasz M Stepkowski, Stephan T Stern, Craig Stevens, Brent R Stockwell, Veronika Stoka, Zuzana Storchova, Bjorn Stork, Vassilis Stratoulas, Dimitrios J Stravopodis, Pavel Strnad, Anne Marie Strohecker, Anna-Lena Strom, Per Stromhaug, Jiri Stulik, Yu-Xiong Su, Zhaoliang Su, Carlos S Subauste, Srinivasa Subramaniam, Carolyn M Sue, Sang Won Suh, Xinning Sui, Supawadee Sukserree, David Sulzer, Fang-Lin Sun, Jiaren Sun, Jun Sun, Shi-Yong Sun, Yang Sun, Yi Sun, Yingjie Sun, Vinod Sundaramoorthy, Joseph Sung, Hidekazu Suzuki, Kuninori Suzuki, Naoki Suzuki, Tadashi Suzuki, Yuichiro J Suzuki, Michele S Swanson, Charles Swanton, Karl Sward, Ghanshyam Swarup, Sean T Sweeney, Paul W Sylvester, Zsuzsanna Szatmari, Eva Szegezdi, Peter W Szlosarek, Heinrich Taegtmeier, Marco Tafani, Emmanuel Taillebourg, Stephen Wg Tait, Krisztina Takacs-Vellai, Yoshinori Takahashi, Szabolcs Takats, Genzou Takemura, Nagio Takigawa, Nicholas J Talbot, Elena Tamagno, Jerome Tamburini, Cai-Ping Tan, Lan Tan, Mei Lan Tan, Ming Tan, Yee-Joo Tan, Keiji Tanaka, Masaki Tanaka, Daolin Tang, Dingzhong Tang, Guomei Tang, Isei Tanida, Kunikazu Tanji, Bakhos A Tannous, Jose A Tapia, Inmaculada Tasset-Cuevas, Marc Tatar, Iman Tavassoly, Nektarios Tavernarakis, Allen Taylor, Graham S Taylor, Gregory A Taylor, J Paul Taylor, Mark J Taylor, Elena V Tchetina, Andrew R Tee, Fatima Teixeira-Clerc, Sucheta Telang, Tewin Tecomnao, Ba-Bie Teng, Ru-Jeng Teng, Faraj Terro, Gianluca Tettamanti, Arianne L Theiss, Anne E Theron, Kelly Jean Thomas, Marcos P Thome, Paul G Thomes, Andrew Thorburn, Jeremy Thorner, Thomas Thum, Michael Thumm, Teresa Lm Thurston, Ling Tian, Andreas Till, Jenny Pan-Yun Ting, Vladimir I Titorenko, Lilach Toker, Stefano Toldo, Sharon A Tooze, Ivan Topisirovic, Maria Lyngaas Torgersen, Liliana Torosantucci, Alicia Torriglia, Maria Rosaria Torrisi, Cathy Tournier, Roberto Towns, Vladimir Trajkovic, Leonardo H Travassos, Gemma Triola, Durga Nand Tripathi, Daniela Trisciunglio, Rodrigo Troncoso, Ioannis P Trougakos, Anita C Truttmann, Kuen-Jer Tsai, Mario P Tschan, Yi-Hsin Tseng, Takayuki Tsukuba, Allan Tsung, Andrey S Tsvetkov, Shuiping Tu, Hsing-Yu Tuan, Marco Tucci, David A Tumbarello, Boris Turk, Vito Turk, Robin Fb Turner, Anders A Tveita, Suresh C Tyagi, Makoto Ubukata, Yasuo Uchiyama, Andrej Udelnow, Takashi Ueno, Midori Umekawa, Rika Umemiya-Shirafuji, Benjamin R Underwood, Christian Ungermann, Rodrigo P Ureshino, Ryo Ushioda, Vladimir N Uversky, Nestor L Uzcategui, Thomas Vaccari, Maria I Vaccaro, Libuse Vachova, Helin Vakifahmetoglu-Norberg, Rut Valdor, Enza Maria Valente, Francois Vallette, Angela M Valverde, Greet Van den Berghe, Ludo Van Den Bosch, Gijs R van den Brink, F Gisou van der Goot, Ida J van der Klei, Luc Jw van der Laan, Wouter G van Doorn, Marjolein van Egmond, Kenneth L van Golen, Luc Van Kaer, Menno van Lookeren Campagne, Peter Vandenabeele, Wim Vandenbergh, Ilse Vanhorebeek, Isabel Varela-Nieto, M Helena Vasconcelos, Radovan Vasko, Demetrios G Vavvas, Ignacio Vega-Naredo, Guillermo Velasco, Athanassios D Velentzas, Panagiotis D Velentzas, Tibor Vellai, Edo Vellenga, Mikkel Holm Vendelbo, Kartik Ignkatachalam, Natascia Ventura, Salvador Ventura, Patricia St Veras, Mireille Verdier, Beata G Vertessy, Andrea Viale, Michel Vidal, Helena L A Vieira, Richard D Vierstra, Nadarajah Vigneswaran, Neeraj Vij, Miquel Vila, Margarita Villar, Victor H Villar, Joan Villarroya, Cecile Vindis, Giampietro Viola, Maria Teresa Viscomi, Giovanni Vitale, Dan T Vogl, Olga V Voitsekhovskaja, Clarissa von Haefen, Karin von Schwarzenberg, Daniel E Voth, Valerie Vouret-Craviari, Kristina Vuori, Jatin M Vyas, Christian Waeber, Cheryl Lyn Walker, Mark J Walker, Jochen Walter, Lei Wan, Xiangbo Wan, Bo Wang, Caihong Wang, Chao-Yung Wang, Chengshu Wang, Chenran Wang, Chuangui Wang, Dong Wang, Fen Wang, Fuxin Wang, Guanghui Wang, Hai-Jie Wang, Haichao Wang, Hong-Gang Wang, Hongmin Wang, Horn-Dar Wang, Jing Wang, Junjun Wang, Mei Wang, Mei-Qing Wang, Pei-Yu Wang, Peng Wang, Richard C Wang, Shuo Wang, Ting-Fang Wang, Xian Wang, Xiao-Jia Wang, Xiao-Wei Wang, Xin Wang, Xuejun Wang, Yan Wang, Yanming Wang, Ying Wang, Ying-Jan Wang, Yipeng Wang, Yu Wang, Yu Tian Wang, Yuqing Wang, Zhi-Nong Wang, Pablo Wappner, Carl Ward, Diane McVey Ward, Gary Warnes, Hirotaka Watada, Yoshihisa Watanabe, Kei Watase, Timothy E Weaver, Colin D Weekes, Jiwu Wei, Thomas Weide, Conrad C Wehl, Gunther Weindl, Simone Nardin Weis, Longping Wen, Xin Wen, Yunfei Wen, Benedikt Westermann, Cornelia M Weyand, Anthony R White, Eileen White, J Lindsay Whitton, Alexander J Whitworth, Joelle Wiels, Franziska Wild, Manon E Wildenberg, Tom Wileman, Deepti Srinivas Wilkinson, Simon Wilkinson, Dieter Willbold, Chris Williams, Katherine Williams, Peter R Williamson, Konstanze F Winklhofer, Steven S Witkin, Stephanie E Wohlgemuth, Thomas Wollert, Ernst J Wolvetang, Esther Wong, G William Wong, Richard W Wong, Vincent Kam Wai Wong, Elizabeth A Woodcock, Karen L Wright, Chunlai Wu, Defeng Wu, Gen Sheng Wu, Jian Wu, Junfang Wu, Mian Wu, Min Wu, Shengzhou Wu, William Kk Wu, Yaohua Wu, Zhenlong Wu, Cristina Pr Xavier, Ramnik J Xavier, Gui-Xian Xia, Tian Xia, Weiliang Xia, Yong Xia, Hengyi Xiao, Jian Xia, Shi Xiao, Wuhan Xiao, Chuan-Ming Xie, Zhiping Xie, Zhonglin Xie, Maria Xilouri, Yuyan Xiong, Chuanshan Xu, Congfeng Xu, Feng Xu, Haoxing Xu, Hongwei Xu, Jian Xu, Jianzhen Xu, Jinxian Xu, Liang Xu, Xiaolei Xu, Yangqing Xu, Ye Xu, Zhi-Xiang Xu, Ziheng Xu, Yu Xue, Takahiro Yamada, Ai Yamamoto, Koji Yamanaka, Shunhei Yamashina, Shigeo Yamashiro, Bing Yan, Bo Yan, Xianghua Yan, Zhen Yan, Yasuo Yanagi, Dun-Sheng Yang, Jin-Ming Yang, Liu Yang, Minghua Yang, Pei-Ming Yang, Peixin Yang, Qian Yang, Wannian Yang, Wei Yuan Yang, Xuesong Yang, Yi Yang, Ying Yang, Zhifen Yang, Zhihong Yang, Meng-Chao Yao, Pamela J Yao, Xiaofeng Yao, Zhenyu Yao, Zhiyuan Yao, Linda S Yasui, Mingxiang Ye, Barry Yedvobnick, Behzad Yeganeh, Elizabeth S Yeh, Patricia L Yeyati, Fan Yi, Long Yi, Xiao-Ming Yin, Calvin K Yip, Yeong-Min Yoo, Young Hyun Yoo, Seung-Yong Yoon, Ken-Ichi Yoshida, Tamotsu Yoshimori, Ken H Young, Huixin Yu, Jane J Yu, Jin-Tai Yu, Jun Yu, Li Yu, W Haung Yu, Xiao-Fang Yu, Zhengping Yu, Junying Yuan, Zhi-Min Yuan, Beatrice Yjt Yue, Jianbo Yue, Zhenyu Yue, David N Zacks, Eldad Zacksenhaus, Nadia Zaffaroni, Tania Zaglia, Zahra Zakeri, Vincent Zecchini, Jinsheng Zeng, Min Zeng, Qi Zeng, Antonis S Zervos, Donna D Zhang, Fan Zhang, Guo Zhang, Guo-Chang Zhang, Hao Zhang, Hong Zhang, Hong Zhang, Hongbing Zhang, Jian Zhang, Jian Zhang, Jiangwei Zhang, Jianhua Zhang, Jing-Pu Zhang, Li Zhang, Lin Zhang, Lin Zhang, Long Zhang, Ming-Yong Zhang, Xiangnan Zhang,

- Xu Dong Zhang, Yan Zhang, Yang Zhang, Yanjin Zhang, Yingmei Zhang, Yunjiao Zhang, Mei Zhao, Wei-Li Zhao, Xiaonan Zhao, Yan G Zhao, Ying Zhao, Yongchao Zhao, Yu-Xia Zhao, Zhendong Zhao, Zhizhuang J Zhao, Dexian Zheng, Xi-Long Zheng, Xiaoxiang Zheng, Boris Zhivotovsky, Qing Zhong, Guang-Zhou Zhou, Guofei Zhou, Huiping Zhou, Shu-Feng Zhou, Xu-Jie Zhou, Hongxin Zhu, Hua Zhu, Wei-Guo Zhu, Wenhua Zhu, Xiao-Feng Zhu, Yuhua Zhu, Shi-Mei Zhuang, Xiaohong Zhuang, Elio Ziparo, Christos E Zois, Teresa Zoladek, Wei-Xing Zong, Antonio Zorzano, Susu M Zughaier. "Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition).", *Autophagy*, 12 - (1) - 1-222, [10.1080/15548627.2015.1100356](https://doi.org/10.1080/15548627.2015.1100356)
- **S Zickenrott, V E Angarica, B B Upadhyaya, A del Sol.** "Prediction of disease-gene-drug relationships following a differential network analysis.", *Cell Death & Disease*, 7 - (1) - e2040-, [10.1038/cddis.2015.393](https://doi.org/10.1038/cddis.2015.393)
  - Anna B Stittrich, Justin Ashworth, Mude Shi, Max Robinson, Denise Mauldin, Mary E Brunkow, Shameek Biswas, Jin-Man Kim, Ki-Sun Kwon, Jae U Jung, **David Galas**, Kyle Serikawa, Richard H Duerr, Stephen L Guthery, Jacques Peschon, Leroy Hood, Jared C Roach, Gustavo Glusman. "Genomic architecture of inflammatory bowel disease in five families with multiple affected individuals.", *Human Genome Variation*, 3 - 15060, [10.1038/hgv.2015.60](https://doi.org/10.1038/hgv.2015.60)

## 2015

### Book

- **Daniel Weindl, Andre Wegner, Karsten Hiller.** "Non-targeted Tracer Fate Detection.", *Methods in Enzymology, Methods In Enzymology*, 561 - 277-302, [10.1016/bs.mie.2015.04.003](https://doi.org/10.1016/bs.mie.2015.04.003)
- **Andreas Husch**, Peter Gemmar, Jörg Lohscheller, **Florian Bernard, Frank Hertel.** "Assessment of Electrode Displacement and Deformation with Respect to Pre-Operative Planning in Deep Brain Stimulation", *Bildverarbeitung für die Medizin 2015*, 77-82, [10.1007/978-3-662-46224-9\\_15](https://doi.org/10.1007/978-3-662-46224-9_15)
- **Nico J. Diederich**, Christopher G. Goetz, Glenn T. Stebbins. "The pathology of hallucinations: one or several points of processing breakdown?", *The Neuroscience of Visual Hallucinations*, 281-306, [10.1002/9781118892794.ch12](https://doi.org/10.1002/9781118892794.ch12)

### Book Series

- **Luis Salamanca**, Nikos Vlassis, **Nico Diederich, Florian Bernard, Alexander Skupin.** "Improved Parkinson's disease classification from diffusion MRI data by fisher vector descriptors", *Lecture Notes in Computer Science*, 9350 - 119-126, [10.1007/978-3-319-24571-3\\_15](https://doi.org/10.1007/978-3-319-24571-3_15)
- Sune S. Nielsen, Grégoire Danoy, **Wiktor Jurkowski**, Juan Luis Jiménez Laredo, Reinhard Schneider, El Ghazali Talbi, Pascal Bouvry. "A novel multi-objectivisation approach for optimising the protein inverse folding problem", *Lecture Notes in Computer Science*, 9028 - 14-25, [10.1007/978-3-319-16549-3\\_2](https://doi.org/10.1007/978-3-319-16549-3_2)
- **Jean-Pierre Trezzi**, Nikos Vlassis, **Karsten Hiller.** "The Role of Metabolomics in the Study of Cancer Biomarkers and in the Development of Diagnostic Tools.", *Advances in Experimental Medicine and Biology, Advances In Experimental Medicine And Biology*, 867 - 41-57, [10.1007/978-94-017-7215-0\\_4](https://doi.org/10.1007/978-94-017-7215-0_4)
- **Maria Biryukov, Paul Antony, Abhimanyu Krishna, Patrick May, Christophe Trefois.** "Evaluation of cell line suitability for disease specific perturbation experiments", *Studies in Classification, Data Analysis, and Knowledge Organization*, 48 - 297-307, [10.1007/978-3-662-44983-7\\_26](https://doi.org/10.1007/978-3-662-44983-7_26)

### Conference Proceeding

- **Florian Bernard, Johan Thunberg**, Peter Gemmar, **Frank Hertel, Andreas Husch, Jorge Goncalves.** "A solution for multi-alignment by transformation synchronisation", *Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition*, 07-12-June-2015 - 2161-2169, [10.1109/CVPR.2015.7298828](https://doi.org/10.1109/CVPR.2015.7298828)
- **JP Trezzi**, P Krotki, M Schulz-Braun, **K Hiller, JG Schneider.** "Vereinfachte und ambulante Methode zur Charakterisierung des Glukosemetabolismus unter Verwendung von getrocknetem Blut und stabiler, nicht-radioaktiver Isotopenmarkierung: Dried blood spots (DBS-GLUC)", *Diabetes Kongress 2015 – 50. Jahrestagung der DDG „Personalisierte Diabetologie: innovativ – individuell – nachhaltig“*, *Diabetologie Und Stoffwechsel*, 10 - (04) - [10.1055/s-0035-1556571](https://doi.org/10.1055/s-0035-1556571)
- **Nicolò Colombo**, Nikos Vlassis. "Stable Spectral learning based on Schur decomposition", *Uncertainty in Artificial Intelligence - Proceedings of the 31st Conference, UAI 2015*, 220-227,
- Christian Grevisse, Ian Muller, Juan Luis Jimenez Laredo, **Marek Ostaszewski**, Gregoire Danoy, Pascal Bouvry. "Visualization and classification of protein secondary structures using Self-Organizing Maps", *Proceedings of the 2014 IEEE Symposium on Computational Intelligence in Multi-Criteria Decision-Making*, 129-136, [10.1109/MCDM.2014.7007198](https://doi.org/10.1109/MCDM.2014.7007198)

### Journal

- Najim Ameziane, **Patrick May**, Anneke Haitjema, Henri J van de Vrugt, Sari E van Rossum-Fikkert, Dejan Ristic, Gareth J Williams, Jesper Balk, Davy Rockx, Hong Li, Martin A Rooimans, Anneke B Oostra, Eunike Velleuer, Ralf Dietrich, Onno B Bleijerveld, A F Maarten Altelaar, Hanne Meijers-Heijboer, Hans Joenje, Gustavo Glusman, Jared Roach, Leroy Hood, **David Galas**, Claire Wyman, **Rudi Balling**, Johan den Dunnen, Johan P de Winter, Roland Kanaar, Richard Gelinias, Josephine C Dorsman. "A novel Fanconi anaemia subtype associated with a dominant-negative mutation in RAD51.", *Nature Communications*, 6 - 8829, [10.1038/ncomms9829](https://doi.org/10.1038/ncomms9829)
- **Nico J Diederich**, Jennifer G Goldman, Glenn T Stebbins, Christopher G Goetz. "Failing as doorman and disc jockey at the same time: Amygdalar dysfunction in Parkinson's disease.", *Movement Disorders*, 31 - (1) - 11-22, [10.1002/mds.26460](https://doi.org/10.1002/mds.26460)
- Martin Hofmann-Apitius, Gordon Ball, **Stephan Gebel**, Shweta Bagewadi, Bernard de Bono, **Reinhard Schneider**, Matt Page, Alpha Tom Kodamullil, Erfan Younesi, Christian Ebeling, Jesper Tegner, Luc Canard. "Bioinformatics Mining and Modeling Methods for the Identification of Disease Mechanisms in Neurodegenerative Disorders.", *International Journal Of Molecular Sciences*, 16 - (12) - 29179-206, [10.3390/ijms161226148](https://doi.org/10.3390/ijms161226148)
- Stefanie Lerche, Inga Liepelt-Scarfone, Guido Alves, Paolo Barone, Stefanie Behnke, Yoav Ben-Shlomo, Henk Berendse, David Burn, Richard Dodel, Donald Grosset, Sebastian Heinzel, Michele Hu, Meike Kasten, **Rejko Krüger**, Walter Maetzler, Marcello Moccia, Brit Mollenhauer, Wolfgang Oertel, Benjamin Roeben, Ulrike Sünkel, Uwe Walter, Karin Wirdefeldt, Daniela Berg. "Methods in Neuroepidemiology Characterization of European Longitudinal Cohort Studies in Parkinson's Disease-Report of the JPND Working Group BioLoC-PD", *Neuroepidemiology*, 45 - (4) - 282-297, [10.1159/000439221](https://doi.org/10.1159/000439221)
- Huimin Zhang, **Dmitry A Ravcheev**, Dan Hu, Fengyu Zhang, Xiufang Gong, Lina Hao, Min Cao, Dmitry A Rodionov, Changjun Wang, Youjun Feng. "Two novel regulators of N-acetyl-galactosamine utilization pathway and distinct roles in bacterial infections.", *Microbiologyopen*, 4 - (6) - 983-1000, [10.1002/mbo3.307](https://doi.org/10.1002/mbo3.307)

- Hassan Salem, Thomas O. Onchuru, **Eugen Bauer**, Martin Kaltenpoth. "Symbiont transmission entails the risk of parasite infection", *Biology Letters*, 11 - (12) - 20150840, [10.1098/rsbl.2015.0840](https://doi.org/10.1098/rsbl.2015.0840)
- Eugen Bauer**, **Cedric Christian Laczny**, **Stefania Magnusdottir**, **Paul Wilmes**, **Ines Thiele**. "Phenotypic differentiation of gastrointestinal microbes is reflected in their encoded metabolic repertoires.", *Microbiome*, 3 - 55, [10.1186/s40168-015-0121-6](https://doi.org/10.1186/s40168-015-0121-6)
- Daniel Weindl**, **Andre Wegner**, **Karsten Hiller**. "Metabolome-Wide Analysis of Stable Isotope Labeling-Is It Worth the Effort?", *Frontiers In Physiology*, 6 - (NOV) - 344, [10.3389/fphys.2015.00344](https://doi.org/10.3389/fphys.2015.00344)
- Antonio DEL SOL MESA**, **Satoshi OKAWA**, **Vladimir ESPINOSA ANGARICA**, Ihor Lemischka, Kateri Moore. "A differential network analysis approach for lineage specifier prediction in stem cell subpopulations", *Npj Systems Biology And Applications*, 1 - 15012, [10.1038/npjbsba.2015.12](https://doi.org/10.1038/npjbsba.2015.12)
- Thomas Palm, **Silvia Bolognin**, **Johannes Meiser**, **Sarah Nickels**, Claudia Trager, Ralf-Leslie Meilenbrock, Johannes Brockhaus, Miriam Schreitmuller, Markus Missler, **Jens Christian Schwamborn**. "Rapid and robust generation of long-term self-renewing human neural stem cells with the ability to generate mature astroglia.", *Scientific Reports*, 5 - 16321, [10.1038/srep16321](https://doi.org/10.1038/srep16321)
- Gregory A. Cary, Dani B N Vinh, **Patrick May**, Rolf Kuestner, Aimée M. Dudley. "Proteomic analysis of Dhh1 complexes reveals a role for Hsp40 chaperone Ydj1 in yeast P-body assembly", *G3-Genes Genomes Genetics*, 5 - (11) - 2497-511, [10.1534/g3.115.021444](https://doi.org/10.1534/g3.115.021444)
- M. E. Cohen, M. Lefort, H. Bergeret-Cassagne, **S. Hachi**, A. Li, G. Russ, D. Lazard, F. Menegaux, L. Leenhardt, C. Trésallet, F. Frouin. "Detection of recurrent nerve paralysis: Development of a Computer Aided Diagnosis system", *Irbm*, 36 - (6) - 367-374, [10.1016/j.irbm.2015.09.008](https://doi.org/10.1016/j.irbm.2015.09.008)
- Stefan Schildknecht, Regina Pape, **Johannes Meiser**, Christiaan Karreman, Tobias Strittmatter, Meike Odermatt, Erica Cirri, Anke Friemel, Markus Ringwald, Noemi Pasquarelli, Boris Ferger, Thomas Brunner, Andreas Marx, Heiko M Moller, **Karsten Hiller**, Marcel Leist. "Preferential Extracellular Generation of the Active Parkinsonian Toxin MPP+ by Transporter-Independent Export of the Intermediate MPDP+.", *Antioxidants & Redox Signaling*, 23 - (13) - 1001-16, [10.1089/ars.2015.6297](https://doi.org/10.1089/ars.2015.6297)
- Maria Pires Pacheco, **Elisabeth John**, Tony Kaoma, Merja Heinaniemi, Nathalie Nicot, Laurent Vallar, Jean-Luc Bueb, **Lasse Sinkkonen**, Thomas Sauter. "Integrated metabolic modelling reveals cell-type specific epigenetic control points of the macrophage metabolic network.", *Bmc Genomics*, 16 - (1) - 809, [10.1186/s12864-015-1984-4](https://doi.org/10.1186/s12864-015-1984-4)
- Shweta Bagewadi, Subash Adhikari, Anjani Dhingra, Afroz Khanam Irin, Christian Ebeling, **Aishwarya Alex Namasivayam**, Matthew Page, Martin Hofmann-Apitius, Philipp Senger. "NeuroTransDB: highly curated and structured transcriptomic metadata for neurodegenerative diseases.", *Database-The Journal Of Biological Databases And Curation*, 2015 - (1) - bav099, [10.1093/database/bav099](https://doi.org/10.1093/database/bav099)
- Ali Ebrahim, Eivind Almaas, **Eugen Bauer**, Aarash Bordbar, Anthony P Burgard, Roger L Chang, Andreas Drager, Iman Famili, Adam M Feist, **Ronan M T Fleming**, Stephen S Fong, Vassily Hatzimanikatis, Markus J Herrgard, Allen Holder, Michael Hucka, Daniel Hyduke, Neema Jamshidi, Sang Yup Lee, Nicolas Le Novere, Joshua A Lerman, Nathan E Lewis, Ding Ma, Radhakrishnan Mahadevan, Costas Maranas, Harish Nagarajan, Ali Navid, Jens Nielsen, Lars K Nielsen, Juan Nogales, **Alberto Noronha**, Csaba Pal, Bernhard O Palsson, Jason A Papin, Kiran R Patil, Nathan D Price, Jennifer L Reed, Michael Saunders, Ryan S Senger, Nikolaus Sonnenschein, Yuekai Sun, **Ines Thiele**. "Do genome-scale models need exact solvers or clearer standards?", *Molecular Systems Biology*, 11 - (10) - 831, [10.1525/msb.20156157](https://doi.org/10.1525/msb.20156157)
- W. L. Kuan, A. Kasis, Y. Yuan, S. L. Mason, A. S. Lazar, R. A. Barker, **J. Goncalves**. "Modelling the natural history of Huntington's disease progression", *Journal Of Neurology Neurosurgery And Psychiatry*, 86 - (10) - 1143-9, [10.1136/jnnp-2014-308153](https://doi.org/10.1136/jnnp-2014-308153)
- Paul Wilmes**, **Anna Heintz-Buschart**, Philip L Bond. "A decade of metaproteomics: where we stand and what the future holds.", *Proteomics*, 15 - (20) - 3409-17, [10.1002/pmic.201500183](https://doi.org/10.1002/pmic.201500183)
- Karima Righetti, Joseph Ly Vu, Sandra Pelletier, Benoit Ly Vu, **Enrico Glaab**, David Lalanne, Asher Pasha, Rohan V Patel, Nicholas J Provart, Jerome Verdier, Olivier Leprince, Julia Buitink. "Inference of Longevity-Related Genes from a Robust Coexpression Network of Seed Maturation Identifies Regulators Linking Seed Storability to Biotic Defense-Related Pathways.", *Plant Cell*, 27 - (10) - 2692-708, [10.1105/tpc.15.00632](https://doi.org/10.1105/tpc.15.00632)
- Frank Hertel**, **Andreas Husch**, Georges Dooms, **Florian Bernard**, Peter Gemmar. "Susceptibility-Weighted MRI for Deep Brain Stimulation: Potentials in Trajectory Planning", *Stereotactic And Functional Neurosurgery*, 93 - (5) - 303-308, [10.1159/000433445](https://doi.org/10.1159/000433445)
- Katia Hardies, Carolien G F De Kovel, Sarah Weckhuysen, Bob Asselbergh, Thomas Geuens, Tine Deconinck, Abdelkrim Azmi, **Patrick May**, Eva Brilstra, Felicitas Becker, Nina Barisic, Dana Craiu, Kees P J Braun, Dennis Lal, Holger Thiele, Julian Schubert, Yvonne Weber, Ruben Van 'T Slot, Peter Nürnberg, **Rudi Balling**, Vincent Timmerman, Holger Lerche, Stuart Maudsley, Ingo Helbig, Arvid Suls, Bobby P C Koeleman, Peter De Jonghe, Zaid Afawi, Stéphanie Baulac, Hande Caglayan, Rosa Guerrero Lopez, Renzo Guerrini, Helle Hjalgrim, Johanna Jähn, Karl Martin Klein, Eric LeGuern, Johannes Lemke, Carla Marini, Hiltrud Muhle, Felix Rosenow, Jose Serratos, Katalin Štěrbová, Rikke S. Moller, Pasquale Striano, Federico Zara, **EuroEPINOMICS RES Consortium**. "Recessive mutations in SLC13A5 result in a loss of citrate transport and cause neonatal epilepsy, developmental delay and teeth hypoplasia", *Brain*, 138 - (Pt 11) - 3238-50, [10.1093/brain/awv263](https://doi.org/10.1093/brain/awv263)
- Cathelijne W van den Berg, **Satoshi Okawa**, Susana M Chuva de Sousa Lopes, Liesbeth van Iperen, Robert Passier, Stefan R Braam, Leon G Tertoolen, **Antonio del Sol**, Richard P Davis, Christine L Mummery. "Transcriptome of human foetal heart compared with cardiomyocytes from pluripotent stem cells.", *Development*, 142 - (18) - 3231-8, [10.1242/dev.123810](https://doi.org/10.1242/dev.123810)
- Lisa Wang, Jan O. Aasly, Grazia Annesi, Soraya Bardien, Maria Bozi, Alexis Brice, Jonathan Carr, Sun J. Chung, Carl Clarke, David Crosiers, Angela Deutschländer, Gertrud Eckstein, Matthew J. Farrer, Stefano Goldwurm, Gaetan Garraux, Georgios M. Hadjigeorgiou, Andrew A. Hicks, Nobutaka Hattori, Christine Klein, Beom Jeon, Yun J. Kim, Suzanne Lesage, Juei Jueng Lin, Timothy Lynch, Peter Lichtner, Anthony E. Lang, Vincent Mok, Barbara Jasinska-Myga, George D. Mellick, Karen E. Morrison, Grzegorz Opala, Lasse Pihlstrøm, Peter P. Pramstaller, Sung S. Park, Aldo Quattrone, Ekaterina Rogava, Owen A. Ross, Leonidas Stefanis, Joanne D. Stockton, Peter A. Silburn, Jessie Theuns, Eng K. Tan, Hiroyuki Tomiyama, Mathias Toft, Christine Van Broeckhoven, Ryan J. Uitti, Karin Wirdefeldt, Zbigniew Wszolek, Georgia Xiromerisiou, Kuo Chu Yueh, Yi Zhao, Thomas Gasser, Demetrius M. Maraganore, **Rejko Krüger**, Manu Sharma. "Large-scale assessment of polyglutamine repeat expansions in Parkinson disease", *Neurology*, 85 - (15) - 1283-1292, [10.1212/WNL.0000000000002016](https://doi.org/10.1212/WNL.0000000000002016)
- Frank Maus, Dominik Sakry, Fabien Biname, Khalad Karram, Krishnaraj Rajalingam, Colin Watts, Richard Heywood, **Rejko Krüger**, Judith Stegmüller, Hauke B Werner, Klaus-Armin Nave, Eva-Maria Kramer-Albers, Jacqueline Trotter. "The NG2 Proteoglycan Protects Oligodendrocyte Precursor Cells against Oxidative Stress via Interaction with OMI/HtrA2.", *Plos One*, 10 - (9) - e0137311, [10.1371/journal.pone.0137311](https://doi.org/10.1371/journal.pone.0137311)
- Nikita A. Sakhanenko, **David J. Galas**. "Biological Data Analysis as an Information Theory Problem: Multivariable Dependence Measures and the Shadows Algorithm", *Journal Of Computational Biology*, 22 - (11) - 1005-24, [10.1089/cmb.2015.0051](https://doi.org/10.1089/cmb.2015.0051)
- Longfei Mao**, **Averina Nicolae**, **Miguel A P Oliveira**, **Feng He**, **Siham Hachi**, **Ronan M T Fleming**. "A constraint-based modelling approach to metabolic dysfunction in Parkinson's disease.", *Computational And Structural Biotechnology Journal*, 13 - 484-91, [10.1016/j.csbj.2015.08.002](https://doi.org/10.1016/j.csbj.2015.08.002)

- Dennis Lal, Sandra Steinbrucker, Julian Schubert, Thomas Sander, Felicitas Becker, Yvonne Weber, Holger Lerche, Holger Thiele, **Roland Krause**, Anna-Elina Lehesjoki, Peter Nurnberg, Aarno Palotie, Bernd A Neubauer, Hiltrud Muhle, Ulrich Stephani, Ingo Helbig, Albert J Becker, Susanne Schoch, Jorg Hansen, Thomas Dorn, Christin Hohl, Nicole Luscher, Sarah von Spiczak, Johannes R Lemke. "Investigation of GRIN2A in common epilepsy phenotypes.", *Epilepsy Research*, 115 - 95-9, [10.1016/j.eplepsyres.2015.05.010](https://doi.org/10.1016/j.eplepsyres.2015.05.010)
- Tim S Ellison, Samuel J Atkinson, Veronica Steri, Benjamin M Kirkup, Michael E J Preedy, Robert T Johnson, Christiana Ruhrberg, Dylan R Edwards, **Jochen G Schneider**, Katherine Weilbaecher, Stephen D Robinson. "Suppression of beta3-integrin in mice triggers a neuropilin-1-dependent change in focal adhesion remodelling that can be targeted to block pathological angiogenesis.", *Disease Models & Mechanisms*, 8 - (9) - 1105-19, [10.1242/dmm.019927](https://doi.org/10.1242/dmm.019927)
- **Satoshi Okawa, Antonio del Sol**. "A computational strategy for predicting lineage specifiers in stem cell subpopulations.", *Stem Cell Research*, 15 - (2) - 427-34, [10.1016/j.scr.2015.08.006](https://doi.org/10.1016/j.scr.2015.08.006)
- Louise C. Laurent, Asim B. Abdel-Mageed, P. David Adelson, Jorge Arango, Leonora Balaj, Xandra Breakefield, Elizabeth Carlson, Bob S. Carter, Blanca Majem, Clark C. Chen, Emanuele Cocucci, Kirsty Danielson, Amanda Courtright, Saumya Das, Zakaria Y. Abd Elmageed, Daniel Enderle, Alan Ezrin, Marc Ferrer, Jane Freedman, **David Galas**, Roopali Gandhi, Matthew J. Huentelman, Kendall Van Keuren-Jensen, Yashar Kalani, Yong Kim, Anna M. Krichevsky, Charles Lai, Madhu Lal-Nag, Clara D. Laurent, Trevor Leonardo, Feng Li, Ivana Malenica, Debasis Mondal, Parham Nejad, Tushar Patel, Robert L. Raffai, Renee Rubio, Johan Skog, Robert Spetzler, Jie Sun, Kahraman Tanriverdi, Kasey Vickers, Liang Wang, Yaoyu Wang, Zhiyun Wei, Howard L. Weiner, David Wong, Irene K. Yan, Ashish Yeri, Stephen Gould. "Meeting report: Discussions and preliminary findings on extracellular RNA measurement methods from laboratories in the NIH Extracellular RNA Communication Consortium", *Journal Of Extracellular Vesicles*, 4 - (1) - 26533, [10.3402/jev.v4.26533](https://doi.org/10.3402/jev.v4.26533)
- **Lamia'a Bahnassawy, Thanneer M Perumal, Laura Gonzalez-Cano, Anna-Lena Hillje**, Leila Taher, Wojciech Makalowski, Yutaka Suzuki, Georg Fuellen, **Antonio del Sol, Jens Christian Schwamborn**. "TRIM32 modulates pluripotency entry and exit by directly regulating Oct4 stability.", *Scientific Reports*, 5 - 13456, [10.1038/srep13456](https://doi.org/10.1038/srep13456)
- **Nicolo Colombo**, Nikos Vlassis. "FastMotif: spectral sequence motif discovery.", *Bioinformatics*, 31 - (16) - 2623-31, [10.1093/bioinformatics/btv208](https://doi.org/10.1093/bioinformatics/btv208)
- **Sarah Killcoyne, Antonio Del Sol**. "Identification of large-scale genomic variation in cancer genomes using in silico reference models.", *Nucleic Acids Research*, 44 - (1) - e5, [10.1093/nar/gkv828](https://doi.org/10.1093/nar/gkv828)
- Joerg M Buescher, Maciek R Antoniewicz, Laszlo G Boros, Shawn C Burgess, Henri Brunengraber, Clary B Clish, Ralph J DeBerardinis, Olivier Feron, Christian Frezza, Bart Ghesquiere, Eyal Gottlieb, **Karsten Hiller**, Russell G Jones, Jurre J Kamphorst, Richard G Kibbey, Alec C Kimmelman, Jason W Locasale, Sophia Y Lunt, Oliver D K Maddocks, Craig Malloy, Christian M Metallo, Emmanuelle J Meuillet, Joshua Munger, Katharina Noh, Joshua D Rabinowitz, Markus Ralser, Uwe Sauer, Gregory Stephanopoulos, Julie St-Pierre, Daniel A Tennant, Christoph Wittmann, Matthew G Vander Heiden, Alexei Vazquez, Karen Vousden, Jamey D Young, Nicola Zamboni, Sarah-Maria Fendt. "A roadmap for interpreting (13)C metabolite labeling patterns from cells.", *Current Opinion In Biotechnology*, 34 - 189-201, [10.1016/j.copbio.2015.02.003](https://doi.org/10.1016/j.copbio.2015.02.003)
- **Almut Heinken, Ines Thiele**. "Systems biology of host-microbe metabolomics.", *Wiley Interdisciplinary Reviews-Systems Biology And Medicine*, 7 - (4) - 195-219, [10.1002/wsbm.1301](https://doi.org/10.1002/wsbm.1301)
- **Andre Wegner, Johannes Meiser, Daniel Weindl, Karsten Hiller**. "How metabolites modulate metabolic flux.", *Current Opinion In Biotechnology*, 34 - 16-22, [10.1016/j.copbio.2014.11.008](https://doi.org/10.1016/j.copbio.2014.11.008)
- Youjun Feng, Ritesh Kumar, **Dmitry A Ravcheev**, Huimin Zhang. "Paracoccus denitrificans possesses two BioR homologs having a role in regulation of biotin metabolism.", *Microbiologyopen*, 4 - (4) - 644-59, [10.1002/mbo3.270](https://doi.org/10.1002/mbo3.270)
- **Christophe Trefois, Paul M A Antony, Jorge Goncalves, Alexander Skupin, Rudi Balling**. "Critical transitions in chronic disease: transferring concepts from ecology to systems medicine.", *Current Opinion In Biotechnology*, 34 - 48-55, [10.1016/j.copbio.2014.11.020](https://doi.org/10.1016/j.copbio.2014.11.020)
- Jordan A Ramilowski, Tatyana Goldberg, Jayson Harshbarger, Edda Kloppmann, Marina Lizio, **Venkata P Satagopam**, Masayoshi Itoh, Hideya Kawaji, Piero Carninci, Burkhard Rost, Alistair R R Forrest. "A draft network of ligand-receptor-mediated multicellular signalling in human.", *Nature Communications*, 6 - 7866, [10.1038/ncomms8866](https://doi.org/10.1038/ncomms8866)
- Serge Haan, Christelle Bahlawane, Jiali Wang, Petr V Nazarov, Arnaud Muller, Rene Eulenfeld, Claude Haan, Catherine Rolvering, Laurent Vallar, **Venkata P Satagopam**, Thomas Sauter, Monique Yvonne Wiesinger. "The oncogenic FIP1L1-PDGFRalpha fusion protein displays skewed signaling properties compared to its wild-type PDGFRalpha counterpart.", *Jak-Stat*, 4 - (1) - e1062596, [10.1080/21623996.2015.1062596](https://doi.org/10.1080/21623996.2015.1062596)
- **Alessandro Michelucci**, Angela Bithell, Matthew J. Burney, Caroline E. Johnston, Kee-Yew Wong, Siaw-Wei Teng, Jyaysi Desai, Nigel Gumbleton, Gregory Anderson, Lawrence W. Stanton, Brenda P. Williams, Noel J. Buckley. "The Neurogenic Potential of Astrocytes Is Regulated by Inflammatory Signals.", *Molecular Neurobiology*, 53 - (6) - 3724-3739, [10.1007/s12035-015-9296-x](https://doi.org/10.1007/s12035-015-9296-x)
- **Rejko Kruger**, Rudiger Hilker, Christian Winkler, Michael Lorrain, Matthias Hahne, Christoph Redecker, Paul Lingor, Wolfgang H Jost. "Advanced stages of PD: interventional therapies and related patient-centered care.", *Journal Of Neural Transmission*, 123 - (1) - 31-43, [10.1007/s00702-015-1418-0](https://doi.org/10.1007/s00702-015-1418-0)
- Mark F Lew, John T Slevin, **Rejko Kruger**, Juan Carlos Martinez Castrillo, Krai Chatamra, Jordan S Dubow, Weining Z Robieson, Janet A Benesh, Victor S C Fung. "Initiation and dose optimization for levodopa-carbidopa intestinal gel: Insights from phase 3 clinical trials.", *Parkinsonism & Related Disorders*, 21 - (7) - 742-8, [10.1016/j.parkreldis.2015.04.022](https://doi.org/10.1016/j.parkreldis.2015.04.022)
- Jing Chen, Sudhirkumar Shinde, Markus-Hermann Koch, Martin Eisenacher, Sara Galozzi, Thilo Lerari, Katalin Barkovits, Prabal Subedi, **Rejko Kruger**, Katja Kuhlmann, Borje Sellergren, Stefan Helling, Katrin Marcus. "Low-bias phosphopeptide enrichment from scarce samples using plastic antibodies.", *Scientific Reports*, 5 - 11438, [10.1038/srep11438](https://doi.org/10.1038/srep11438)
- Andreas Puschmann, Laura Brighina, Katerina Markopoulou, Jan Aasly, Sun Ju Chung, Roberta Frigerio, Georgios Hadjigeorgiou, Sulev Koks, **Rejko Kruger**, Joanna Siuda, Christian Wider, Theresa A Zesiewicz, Demetrius M Maraganore. "Clinically meaningful parameters of progression and long-term outcome of Parkinson disease: An international consensus statement.", *Parkinsonism & Related Disorders*, 21 - (7) - 675-82, [10.1016/j.parkreldis.2015.04.029](https://doi.org/10.1016/j.parkreldis.2015.04.029)
- Stephan Schiekofer, Christina Zirngibl, **Jochen G Schneider**. "Necrotizing Sarcoid Granulomatosis (NSG): A Diagnostic Pitfall to Watch Out For!", *Journal Of Clinical And Diagnostic Research*, 9 - (7) - OJ02, [10.7860/JCDR/2015/13328.6228](https://doi.org/10.7860/JCDR/2015/13328.6228)
- **Enrico Glaab, Reinhard Schneider**. "RepExplore: addressing technical replicate variance in proteomics and metabolomics data analysis.", *Bioinformatics*, 31 - (13) - 2235-7, [10.1093/bioinformatics/btv127](https://doi.org/10.1093/bioinformatics/btv127)
- **Anna BUSCHART, Cédric LACZNY, Emilie MULLER, Hugo Roume, Patrick MAY, Venkata Pardhasaradhi SATAGOPAM, Shaman NARAYANASAMY, Laura LEBRUN, Paul WILMES**, Michael R Hoopmann, James M Schupp, John D Gillece, Nathan D Hicks, David M Engelthaler, Thomas Sauter, Paul S Keim, Robert L Moritz. "Comparative integrated omics: identification of key functionalities in microbial community-wide metabolic networks", *Npj Biofilms And Microbiomes*, 1 - 15007, [10.1038/npjbiofilms.2015.7](https://doi.org/10.1038/npjbiofilms.2015.7)

- **Almut Heinken, Ines Thiele.** "Anoxic Conditions Promote Species-Specific Mutualism between Gut Microbes In Silico.", Applied And Environmental Microbiology, 81 - (12) - 4049-61, [10.1128/AEM.00101-15](https://doi.org/10.1128/AEM.00101-15)
- **Ganna Androsova, Roland Krause, Georg Winterer, Reinhard Schneider.** "Biomarkers of postoperative delirium and cognitive dysfunction.", Frontiers In Aging Neuroscience, 7 - (JUN) - 112, [10.3389/fnagi.2015.00112](https://doi.org/10.3389/fnagi.2015.00112)
- **Ana Rodriguez, Isaac Crespo, Ganna Androsova, Antonio del Sol.** "Discrete Logic Modelling Optimization to Contextualize Prior Knowledge Networks Using PRUNET.", Plos One, 10 - (6) - e0127216, [10.1371/journal.pone.0127216](https://doi.org/10.1371/journal.pone.0127216)
- **Edinson Lucumi Moreno, Siham Hachi, Kathrin Hemmer, Sebastiaan J Trietsch, Aidos S Baumuratov, Thomas Hankemeier, Paul Vulto, Jens C Schwamborn, Ronan M T Fleming.** "Differentiation of neuroepithelial stem cells into functional dopaminergic neurons in 3D microfluidic cell culture.", Lab On A Chip, 15 - (11) - 2419-28, [10.1039/c5lc00180c](https://doi.org/10.1039/c5lc00180c)
- Sebastian Oeder, Tamara Kanashova, Olli Sippula, **Sean C. Sapcariu**, Thorsten Streibel, Jose Manuel Arteaga-Salas, Johannes Passig, Marco Dilger, Hanns Rudolf Paur, Christoph Schlager, Sonja Mülhopt, Silvia Diabaté, Carsten Weiss, Benjamin Stengel, Rom Rabe, Horst Harndorf, Tiina Torvela, Jorma K. Jokiniemi, Maija Riitta Hirvonen, Carsten Schmidt-Weber, Claudia Traidl-Hoffmann, Kelly A. Bérubé, Anna J. Włodarczyk, Zoë Prytherch, Bernhard Michalke, Tobias Krebs, André S H Prévôt, Michael Kelbg, Josef Tiggesbäumker, Erwin Karg, Gert Jakobi, Sorana Scholtes, Jürgen Schnelle-Kreis, Jutta Lintemann, Georg Matuschek, Martin Sklorz, Sophie Klingbeil, Jürgen Orasche, Patrick Richthammer, Laarnie Müller, Michael Elsasser, Ahmed Reda, Thomas Gröger, Benedikt Weggler, Theo Schwemer, Hendryk Czech, Christopher P. Rüter, Gülcin Abbaszade, Christian Radischat, **Karsten Hiller**, Jeroen T M Buters, Gunnar Dittmar, Ralf Zimmermann. "Particulate matter from both heavy fuel oil and diesel fuel shipping emissions show strong biological effects on human lung cells at realistic and comparable in vitro exposure conditions", Plos One, 10 - (6) - e0126536, [10.1371/journal.pone.0126536](https://doi.org/10.1371/journal.pone.0126536)
- Teri A Manolio, Marc Abramowicz, Fahd Al-Mulla, Warwick Anderson, **Rudi Balling**, Adam C Berger, Steven Bleyl, Aravinda Chakravarti, Wasun Chantratita, Rex L Chisholm, Vajira H W Dissanayake, Michael Dunn, Victor J Dzau, Bok-Ghee Han, Tim Hubbard, Anne Kolbe, Bruce Korf, Michiaki Kubo, Paul Lasko, Erkki Leego, Surakameth Mahasirimongkol, Partha P Majumdar, Gert Matthijs, Howard L McLeod, Andres Metspalu, Pierre Meulien, Satoru Miyano, Yaakov Naparstek, P Pearl O'Rourke, George P Patrinos, Heidi L Rehm, Mary V Relling, Gad Rennert, Laura Lyman Rodriguez, Dan M Roden, Alan R Shuldiner, Sukdeb Sinha, Patrick Tan, Mats Ulfendahl, Robyn Ward, Marc S Williams, John E L Wong, Eric D Green, Geoffrey S Ginsburg. "Global implementation of genomic medicine: We are not alone.", Science Translational Medicine, 7 - (290) - 290ps13, [10.1126/scitranslmed.aab0194](https://doi.org/10.1126/scitranslmed.aab0194)
- Bishi Fu, Lingyan Wang, Hao Ding, **Jens C Schwamborn**, Shitao Li, Martin E Dorf. "TRIM32 Senses and Restricts Influenza A Virus by Ubiquitination of PB1 Polymerase.", Plos Pathogens, 11 - (6) - e1004960, [10.1371/journal.ppat.1004960](https://doi.org/10.1371/journal.ppat.1004960)
- **Christian Jaeger, Enrico Glaab, Alessandro Michelucci, Tina M Binz, Sandra Koeglsberger, Pierre Garcia, Jean-Pierre Trezzi, Jenny Ghelfi, Rudi Balling, Manuel Buttini.** "The mouse brain metabolome: region-specific signatures and response to excitotoxic neuronal injury.", American Journal Of Pathology, 185 - (6) - 1699-712, [10.1016/j.ajpath.2015.02.016](https://doi.org/10.1016/j.ajpath.2015.02.016)
- Anne Grosse-Wilde, **Aymeric Fouquier d'Herouel**, Ellie McIntosh, **Gokhan Ertaylan, Alexander Skupin**, Rolf E Kuestner, **Antonio del Sol**, Kathie-Anne Walters, Sui Huang. "Stemness of the hybrid Epithelial/Mesenchymal State in Breast Cancer and Its Association with Poor Survival.", Plos One, 10 - (5) - e0126522, [10.1371/journal.pone.0126522](https://doi.org/10.1371/journal.pone.0126522)
- Ibrahim N'Doye, Holger Voos, Mohamed Darouach, **Jochen G. Schneider.** "Static Output Feedback H $\infty$  Control for a Fractional-order Glucose-insulin System", International Journal Of Control Automation And Systems, 13 - (4) - 798-807, [10.1007/s12555-013-9192-y](https://doi.org/10.1007/s12555-013-9192-y)
- **Thekla Cordes, Alessandro Michelucci, Karsten Hiller.** "Itaconic Acid: The Surprising Role of an Industrial Compound as a Mammalian Antimicrobial Metabolite.", Annual Review of Nutrition, Annual Review Of Nutrition, 35 - (1) - 451-73, [10.1146/annurev-nutr-071714-034243](https://doi.org/10.1146/annurev-nutr-071714-034243)
- Yifan Zhang, Angela Kecskes, Danielle Copmans, **Melanie Langlois, Alexander D Crawford**, Bertien Ceulemans, Lieven Lagae, Peter A M de Witte, Camila V Esguerra. "Pharmacological characterization of an antisense knockdown zebrafish model of Dravet syndrome: inhibition of epileptic seizures by the serotonin agonist fenfluramine.", Plos One, 10 - (5) - e0125898, [10.1371/journal.pone.0125898](https://doi.org/10.1371/journal.pone.0125898)
- Maria Jimenez-Sanchez, Wun Lam, Michael Hannus, Birte Sonnichsen, Sara Imarisio, Angeleen Fleming, Alessia Tarditi, Fiona Menzies, Teresa Ed Dami, Catherine Xu, Eduardo Gonzalez-Couto, Giulia Lazzeroni, Freddy Heitz, Daniela Diamanti, Luisa Massai, **Venkata P Satagopam**, Guido Marconi, Chiara Caramelli, Arianna Nencini, Matteo Andreini, Gian Luca Sardone, Nicola P Caradonna, Valentina Porcari, Carla Scali, **Reinhard Schneider**, Giuseppe Pollio, Cahir J O'Kane, Andrea Caricasole, David C Rubinsztein. "siRNA screen identifies QPCT as a druggable target for Huntington's disease.", Nature Chemical Biology, 11 - (5) - 347-54, [10.1038/nchembio.1790](https://doi.org/10.1038/nchembio.1790)
- **Shaman Narayanasamy, Emilie E L Muller, Abdul R Sheik, Paul Wilmes.** "Integrated omics for the identification of key functionalities in biological wastewater treatment microbial communities.", Microbial Biotechnology, 8 - (3) - 363-8, [10.1111/1751-7915.12255](https://doi.org/10.1111/1751-7915.12255)
- **Wei Pan**, Ye Yuan, **Jorge Gonçaves**, Guy Bart Stan. "A Sparse Bayesian Approach to the Identification of Nonlinear State-Space Systems", IEEE Transactions On Automatic Control, 61 - (1) - 182-187, [10.1109/TAC.2015.2426291](https://doi.org/10.1109/TAC.2015.2426291)
- **Almut Heinken, Ines Thiele.** "Systematic prediction of health-relevant human-microbial co-metabolism through a computational framework.", Gut Microbes, 6 - (2) - 120-30, [10.1080/19490976.2015.1023494](https://doi.org/10.1080/19490976.2015.1023494)
- **Stefania Magnusdottir, Dmitry Ravcheev**, Valerie de Crecy-Lagard, **Ines Thiele.** "Systematic genome assessment of B-vitamin biosynthesis suggests co-operation among gut microbes.", Frontiers In Genetics, 6 - (MAR) - 148, [10.3389/fgene.2015.00148](https://doi.org/10.3389/fgene.2015.00148)
- Katia Hardies, **Patrick May**, Tania Djemie, Oana Tarta-Arsene, Tine Deconinck, Dana Craiu, AR working group of the EuroEPINOMICS RES Consortium, Ingo Helbig, Arvid Suls, **Rudy Balling**, Sarah Weckhuysen, Peter De Jonghe, Jennifer Hirst. "Recessive loss-of-function mutations in AP4S1 cause mild fever-sensitive seizures, developmental delay and spastic paraplegia through loss of AP-4 complex assembly.", Human Molecular Genetics, 24 - (8) - 2218-27, [10.1093/hmg/ddu740](https://doi.org/10.1093/hmg/ddu740)
- **Daniel Weindl, Andre Wegner, Christian Jager, Karsten Hiller.** "Isotopologue ratio normalization for non-targeted metabolomics.", Journal Of Chromatography A, 1389 - 112-9, [10.1016/j.chroma.2015.02.025](https://doi.org/10.1016/j.chroma.2015.02.025)
- Vanessa Nieratschker, Christoph Kiefer, Katrin Giel, **Rejko Kruger**, Christian Plewnia. "The COMT Val/Met polymorphism modulates effects of tDCS on response inhibition.", Brain Stimulation, 8 - (2) - 283-8, [10.1016/j.brs.2014.11.009](https://doi.org/10.1016/j.brs.2014.11.009)
- Steffen Syrbe, Ulrike B S Hedrich, Erik Riesch, Tania Djemie, Stephan Muller, Rikke S Moller, Bridget Maher, Laura Hernandez-Hernandez, Matthias Synofzik, Hande S Caglayan, Mutluay Arslan, Jose M Serratos, Michael Nothnagel, **Patrick May, Roland Krause**, Heidrun Löffler, Katja Detert, Thomas Dorn, Heinrich Vogt, Gunter Kramer, Ludger Schols, Primus E Mullis, Tarja Linnankivi, Anna-Elina Lehesjoki, Katalin Sterbova, Dana C Craiu, Dorota Hoffman-Zacharska, Christian M Korff, Yvonne G Weber, Maja Steinlin, Sabina Gallati, Astrid Bertsche, Matthias K Bernhard, Andreas Merckenschlager, Wieland Kiess, **EuroEPINOMICS RES Consortium**, Michael Gonzalez, Stephan Zuchner, Aarno Palotie, Arvid Suls, Peter De Jonghe, Ingo Helbig, Saskia Biskup, Markus Wolff, Snezana Maljevic, Rebecca Schule, Sanjay M Sisodiya, Sarah Weckhuysen, Holger Lerche, Johannes R Lemke. "De novo loss- or gain-of-function mutations in KCNA2 cause epileptic encephalopathy.", Nature Genetics, 47 - (4) - 393-9, [10.1038/ng.3239](https://doi.org/10.1038/ng.3239)

- Vuong Ba Lê, **Jochen G. Schneider**, Yvonne Boergeling, Fatma Berri, Mariette Ducatez, Jean Luc Guerin, Iris Adrian, Elisabeth Errazuriz-Cerda, Sonia Frاسquilho, Laurent Antunes, Bruno Lina, Jean Claude Bordet, Martine Jandrot-Perrus, Stephan Ludwig, Béatrice Riteau. "Platelet activation and aggregation promote lung inflammation and influenza virus pathogenesis", *American Journal Of Respiratory And Critical Care Medicine*, 191 - (7) - 804-819, [10.1164/rccm.201406-1031OC](https://doi.org/10.1164/rccm.201406-1031OC)
- Karine Leclercq, Tatiana Afrikanova, **Melanie Langlois**, An De Prins, Olivia E Buenafe, Chiara C Rospo, **Ann Van Eeckhaut**, Peter A M de Witte, **Alexander D Crawford**, Ilse Smolders, Camila V Esguerra, Rafal M Kaminski. "Cross-species pharmacological characterization of the allylglycine seizure model in mice and larval zebrafish.", *Epilepsy & Behavior*, 45 - 53-63, [10.1016/j.yebeh.2015.03.019](https://doi.org/10.1016/j.yebeh.2015.03.019)
- Daniela Hartl, **Wei Gu**, Manuel Mayhaus, Sabrina Pichler, Jakob Schope, Stefan Wagenfeil, Matthias Riemenschneider. "Amyloid-beta Protein Precursor Cleavage Products in Postmortem Ventricular Cerebrospinal Fluid of Alzheimer's Disease Patients.", *Journal Of Alzheimers Disease*, 47 - (2) - 365-72, [10.3233/JAD-150191](https://doi.org/10.3233/JAD-150191)
- Conny Mathay, Gael Hamot, Estelle Henry, Laura Georges, Camille Bellora, **Laura Lebrun**, Brian De Witt, Wim Ammerlaan, **Anna Buschart**, **Paul Wilmes**, Fay Betsou. "Method optimization for fecal sample collection and fecal DNA extraction", *Biopreservation And Biobanking*, 13 - (2) - 79-93, [10.1089/bio.2014.0031](https://doi.org/10.1089/bio.2014.0031)
- Christelle Bahlawane, Rene Eulenfeld, Monique Y Wiesinger, Jiali Wang, Arnaud Muller, Andreas Girod, Petr V Nazarov, Kathrin Felsch, Laurent Vallar, Thomas Sauter, **Venkata P Satagopam**, Serge Haan. "Constitutive activation of oncogenic PDGFRalpha-mutant proteins occurring in GIST patients induces receptor mislocalisation and alters PDGFRalpha signalling characteristics.", *Cell Communication And Signaling*, 13 - (1) - 21, [10.1186/s12964-015-0096-8](https://doi.org/10.1186/s12964-015-0096-8)
- **Paul P Jung**, **Nils Christian**, **Daniel P Kay**, **Alexander Skupin**, **Carole L Linster**. "Protocols and programs for high-throughput growth and aging phenotyping in yeast.", *Plos One*, 10 - (3) - e0119807, [10.1371/journal.pone.0119807](https://doi.org/10.1371/journal.pone.0119807)
- Ye Yuan, Keith Glover, **Jorge Gonçaves**. "On minimal realisations of dynamical structure functions", *Automatica*, 55 - 159-164, [10.1016/j.automatica.2015.03.005](https://doi.org/10.1016/j.automatica.2015.03.005)
- **Anna-Lena Hillje**, Elisabeth Beckmann, **Maria A. S. Pavlou**, **Christian Jaeger**, Maria P. Pacheco, Thomas Sauter, **Jens C. Schwamborn**, Lars Lewejohann. "The neural stem cell fate determinant TRIM32 regulates complex behavioral traits.", *Frontiers In Cellular Neuroscience*, 9 - 75, [10.3389/fncel.2015.00075](https://doi.org/10.3389/fncel.2015.00075)
- Wei Pan, Ye Yuan, Henrik Sandberg, **Jorge Gonçaves**, Guy Bart Stan. "Online fault diagnosis for nonlinear power systems", *Automatica*, 55 - 27-36, [10.1016/j.automatica.2015.02.032](https://doi.org/10.1016/j.automatica.2015.02.032)
- **Sarah Nicklas**, **Satoshi Okawa**, **Anna-Lena Hillje**, **Laura Gonzalez-Cano**, **Antonio Del Sol**, **Jens C Schwamborn**. "The RNA helicase DDX6 regulates cell-fate specification in neural stem cells via miRNAs.", *Nucleic Acids Research*, 43 - (5) - 2638-54, [10.1093/nar/gkv138](https://doi.org/10.1093/nar/gkv138)
- **Niko Komin**, **Mahsa Moein**, Mark H Ellisman, **Alexander Skupin**. "Multiscale Modeling Indicates That Temperature Dependent [Ca<sup>2+</sup>]<sub>i</sub> Spiking in Astrocytes Is Quantitatively Consistent with Modulated SERCA Activity.", *Neural Plasticity*, 2015 - 683490, [10.1155/2015/683490](https://doi.org/10.1155/2015/683490)
- Norbert Bruggemann, Andrea Kuhn, Susanne A Schneider, Christoph Kamm, Alexander Wolters, Patricia Krause, Elena Moro, Frank Steigerwald, Matthias Wittstock, Volker Tronnier, Andres M Lozano, Clement Hamani, Yu-Yan Poon, Simone Zittel, Tobias Wachter, Gunther Deuschl, **Rejko Kruger**, Andreas Kupsch, Alexander Munchau, Katja Lohmann, Jens Volkmann, Christine Klein. "Short- and long-term outcome of chronic pallidal neurostimulation in monogenic isolated dystonia.", *Neurology*, 84 - (9) - 895-903, [10.1212/WNL.0000000000001312](https://doi.org/10.1212/WNL.0000000000001312)
- Nicolas Innocenti, Monica Golumbeanu, **Aymeric Fouquier D'Hérouël**, Caroline Lacoux, Rémy A. Bonnin, Sean P. Kennedy, Françoise Wessner, Pascale Serror, Philippe Boulouc, Francis Repoila, Erik Aurell. "Whole-genome mapping of 5' RNA ends in bacteria by tagged sequencing: A comprehensive view in *Enterococcus faecalis*", *Rna*, 21 - (5) - 1018-30, [10.1261/rna.048470.114](https://doi.org/10.1261/rna.048470.114)
- Daniel Trindade, Lissur A Orsine, **Adriano Barbosa-Silva**, Elisa R Donnard, J Miguel Ortega. "A guide for building biological pathways along with two case studies: hair and breast development.", *Methods*, 74 - 16-35, [10.1016/j.ymeth.2014.10.006](https://doi.org/10.1016/j.ymeth.2014.10.006)
- Daniel Weiss, Rosa Klotz, Rathinaswamy B Govindan, Marlieke Scholten, Georgios Naros, Ander Ramos-Murguialday, Friedemann Bunjes, Christoph Meisner, Christian Plewnia, **Rejko Kruger**, Alireza Gharabaghi. "Subthalamic stimulation modulates cortical motor network activity and synchronization in Parkinson's disease.", *Brain*, 138 - (3) - 679-93, [10.1093/brain/awu380](https://doi.org/10.1093/brain/awu380)
- Daniel Weiss, Carina Mielke, Tobias Wachter, Benjamin Bender, Rajka M Liscic, Marlieke Scholten, Georgios Naros, Christian Plewnia, Alireza Gharabaghi, **Rejko Kruger**. "Long-term outcome of deep brain stimulation in fragile X-associated tremor/ataxia syndrome.", *Parkinsonism & Related Disorders*, 21 - (3) - 310-3, [10.1016/j.parkreldis.2014.12.015](https://doi.org/10.1016/j.parkreldis.2014.12.015)
- Sune Pletscher-Frankild, Albert Palleja, Kalliopi Tsafo, **Janos X Binder**, Lars Juhl Jensen. "DISEASES: text mining and data integration of disease-gene associations.", *Methods*, 74 - 83-9, [10.1016/j.ymeth.2014.11.020](https://doi.org/10.1016/j.ymeth.2014.11.020)
- Marlieke Scholten, Rosa Klotz, Christian Plewnia, Tobias Wächter, Carina Mielke, Bastiaan R. Bloem, Christoph Braun, Ulf Ziemann, Rathinaswamy B. Govindan, Alireza Gharabaghi, **Rejko Krüger**, Daniel Weiss. "Neuromuscular correlates of subthalamic stimulation and upper limb freezing in Parkinson's disease", *Clinical Neurophysiology*, 127 - (1) - 610-620, [10.1016/j.clinph.2015.02.012](https://doi.org/10.1016/j.clinph.2015.02.012)
- Emile Van Schaftingen, Maria Veiga-da-Cunha, **Carole L. Linster**. "Enzyme complexity in intermediary metabolism", *Journal Of Inherited Metabolic Disease*, 38 - (4) - 721-727, [10.1007/s10545-015-9821-0](https://doi.org/10.1007/s10545-015-9821-0)
- **Wiktor Jurkowski**. "Role of D278N mutation for stability of prion dimer and tetramer structure", *Bio-Algorithms And Med-Systems*, 11 - (1) - 19-24, [10.1515/bams-2015-0002](https://doi.org/10.1515/bams-2015-0002)
- Elizabeth C. Galizia, Candace T. Myers, Costin Leu, Carolien G F De Kovel, **Tatiana Afrikanova**, **Maria Lorena Cordero-Maldonado**, **Teresa G. Martins**, **Maxime Jacmin**, Suzanne Drury, V. Krishna Chinthapalli, Hiltrud Muhle, Manuela Pendziwiat, Thomas Sander, Ann Kathrin Ruppert, Rikke S. Moller, Holger Thiele, **Roland Krause**, Julian Schubert, Anna Elina Lehesjoki, Peter Nürnberg, Holger Lerche, **EuroEPINOMICS CoGIE Consortium**, Aarno Palotie, Antonietta Coppola, Salvatore Striano, Luigi Del Gaudio, Christopher Boustred, Amy L. Schneider, Nicholas Lench, Bosanka Jovic-Jakubi, Athanasios Covanis, Giuseppe Capovilla, Pierangelo Veggiotti, Marta Piccioli, Pasquale Parisi, Laura Cantonetti, Lynette G. Sadleir, Saul A. Mullen, Samuel F. Berkovic, Ulrich Stephani, Ingo Helbig, **Alexander D. Crawford**, **Camila V. Esguerra**, Dorothee G A Kasteleijn Nolst Trenité, Bobby P C Koeleman, Heather C. Mefford, Ingrid E. Scheffer, Sanjay M. Sisodiya. "CHD2 variants are a risk factor for photosensitivity in epilepsy", *Brain*, 138 - (5) - 1198-1207, [10.1093/brain/awv028](https://doi.org/10.1093/brain/awv028)
- Rhys H. Thomas, Lin Mei Zhang, Gemma L. Carvill, John S. Archer, Sinéad B. Heavin, Simone A. Mandelstam, Dana Craiu, Samuel F. Berkovic, Deepak S. Gill, Heather C. Mefford, Ingrid E. Scheffer, **EuroEPINOMICS RES Consortium**. "CHD2 myoclonic encephalopathy is frequently associated with self-induced seizures", *Neurology*, 84 - (9) - 951-958, [10.1212/WNL.0000000000001305](https://doi.org/10.1212/WNL.0000000000001305)

- Georg Basler, **Evangelos Simeonidis**. "Integrating food webs with metabolic networks: modeling contaminant degradation in marine ecosystems.", *Frontiers In Genetics*, 6 - (FEB) - 20, [10.3389/fgene.2015.00020](https://doi.org/10.3389/fgene.2015.00020)
- Nikos Vlassis, **Enrico Glaab**. "GenePEN: Analysis of network activity alterations in complex diseases via the pairwise elastic net", *Statistical Applications In Genetics And Molecular Biology*, 14 - (2) - 221-224, [10.1515/sagmb-2014-0045](https://doi.org/10.1515/sagmb-2014-0045)
- **Jochen G Schneider**, Joseph H Nadeau. "Turn up the heat: circulating serotonin tunes our internal heating system.", *Cell Metabolism*, 21 - (2) - 156-158, [10.1016/j.cmet.2015.01.011](https://doi.org/10.1016/j.cmet.2015.01.011)
- **Luis Salamanca**, Juan Jose Murillo-Fuentes, Pablo M. Olmos, Fernando Perez-Cruz, Sergio Verdu. "Approaching the DT bound using linear codes in the short blocklength regime", *Ieee Communications Letters*, 19 - (2) - 123-126, [10.1109/LCOMM.2014.2371032](https://doi.org/10.1109/LCOMM.2014.2371032)
- **Enrico Glaab, Reinhard Schneider**. "Comparative pathway and network analysis of brain transcriptome changes during adult aging and in Parkinson's disease", *Neurobiology Of Disease*, 74 - 1-13, [10.1016/j.nbd.2014.11.002](https://doi.org/10.1016/j.nbd.2014.11.002)
- Stephanie Boue, Brett Fields, Julia Hoeng, Jennifer Park, Manuel C Peitsch, Walter K Schlage, Marja Talikka, Ilona Binenbaum, Vladimir Bondarenko, Oleg V Bulgakov, Vera Cherkasova, Norberto Diaz-Diaz, Larisa Fedorova, Svetlana Guryanova, Julia Guzova, Galina Igorevna Koroleva, Elena Kozhemyakina, Rahul Kumar, Noa Lavid, Qingxian Lu, Swapna Menon, Yael Ouliel, Samantha C Peterson, Alexander Prokhorov, Edward Sanders, Sarah Schrier, Golan Schwaitzer Neta, Irina Shvydchenko, **Aravind Tallam**, Gema Villa-Fombuena, John Wu, Ilya Yudkevich, Mariya Zelikman. "Enhancement of COPD biological networks using a web-based collaboration interface", *F1000Research*, 4 - 32, [10.12688/f1000research.5984.2](https://doi.org/10.12688/f1000research.5984.2)
- Aidan Budd, Holger Dinkel, Manuel Corpas, Jonathan C Fuller, Laura Rubinat, Damien P Devos, Pierre H Khoueiry, Konrad U Forstner, **Fotis Georgatos**, Francis Rowland, Malvika Sharan, **Janos X Binder**, Tom Grace, Karyn Traphagen, Adam Gristwood, Natasha T Wood. "Ten simple rules for organizing an unconference.", *Plos Computational Biology*, 11 - (1) - e1003905, [10.1371/journal.pcbi.1003905](https://doi.org/10.1371/journal.pcbi.1003905)
- **Anubrata Ghosal, Bimal Babu Upadhyaya, Joelle V Fritz, Anna Heintz-Buschart, Mahesh S Desai, Dilmurat Yusuf**, David Huang, **Aidos Baumuratov**, Kai Wang, **David Galas, Paul Wilmes**. "The extracellular RNA complement of Escherichia coli.", *Microbiologyopen*, 4 - (2) - 252-66, [10.1002/mbo3.235](https://doi.org/10.1002/mbo3.235)
- **Cedric C Laczny**, Tomasz Sternal, Valentin Plugaru, **Piotr Gawron**, Arash Atashpendar, Houry Hera Margossian, Sergio Coronado, Laurens van der Maaten, Nikos Vlassis, **Paul Wilmes**. "VizBin - an application for reference-independent visualization and human-augmented binning of metagenomic data.", *Microbiome*, 3 - (1) - 1, [10.1186/s40168-014-0066-1](https://doi.org/10.1186/s40168-014-0066-1)
- **Evangelos Simeonidis**, Nathan D. Price. "Genome-scale modeling for metabolic engineering", *Journal Of Industrial Microbiology & Biotechnology*, 42 - (3) - 327-38, [10.1007/s10295-014-1576-3](https://doi.org/10.1007/s10295-014-1576-3)
- Jan Larsen, Gemma L Carvill, Elena Gardella, Gerhard Kluger, Gudrun Schmiedel, Nina Barisic, Christel Depienne, Eva Brilstra, Yuan Mang, Jens Erik Klint Nielsen, Martin Kirkpatrick, David Goudie, Rebecca Goldman, Johanna A Jahn, Birgit Jepsen, Deepak Gill, Miriam Docker, Saskia Biskup, Jacinta M McMahon, Bobby Koелеman, Mandy Harris, Kees Braun, Carolien G F de Kovel, Carla Marini, Nicola Specchio, Tania Djemie, Sarah Weckhuysen, Niels Tommerup, Monica Troncoso, Ledia Troncoso, Andrea Bevot, Markus Wolff, Helle Hjalgrim, Renzo Guerrini, Ingrid E Scheffer, Heather C Mefford, Rikke S Moller, **EuroEPINOMICS RES Consortium CRP**. "The phenotypic spectrum of SCN8A encephalopathy.", *Neurology*, 84 - (5) - 480-9, [10.1212/WNL.0000000000001211](https://doi.org/10.1212/WNL.0000000000001211)
- Ulf Elbelt, Alessia Trovato, Michael Kloth, Enno Gentz, Reinhard Finke, Joachim Spranger, **David Galas**, Susanne Weber, **Cristina Wolf**, Katharina König, Wiebke Art, Reinhard Büttner, **Patrick May**, Bruno Alolio, **Jochen G. Schneider**. "Molecular and clinical evidence for an ARMC5 tumor syndrome: concurrent inactivating germline and somatic mutations are associated with both primary macronodular adrenal hyperplasia and meningioma", *Journal Of Clinical Endocrinology & Metabolism*, 100 - (1) - E119-28, [10.1210/jc.2014-2648](https://doi.org/10.1210/jc.2014-2648)

## 2014

### Book

- **Cédric C. Laczny, Paul Wilmes**. "Towards the Identification of Condition-Specific Microbial Populations from Human Metagenomic Data", *Nucleic Acids as Molecular Diagnostics*, 9783527335565 - 241-270, [10.1002/9783527672165.ch11](https://doi.org/10.1002/9783527672165.ch11)
- David Galas, **Paul WILMES**, Kai Wang. "RNA in Circulation: Sources and Functions of Extracellular Exogenous RNA in the Blood", *Encyclopedia of Metagenomics*, [10.1007/978-1-4614-6418-1\\_105-2](https://doi.org/10.1007/978-1-4614-6418-1_105-2)
- Alberto Carignano, Ye Yuan, Neil Dalchau, Alex A R Webb, **Jorge Goncalves**. "Understanding and predicting biological networks using linear system identification", *A Systems Theoretic Approach to Systems and Synthetic Biology I: Models and System Characterizations*, 227-253, [10.1007/978-94-017-9041-3\\_9](https://doi.org/10.1007/978-94-017-9041-3_9)

### Conference Proceeding

- David Hayden, Ye Yuan, **Jorge Goncalves**. "Network reconstruction from intrinsic noise: Minimum-phase systems", *Proceedings of the American Control Conference*, 4391-4396, [10.1109/ACC.2014.6859298](https://doi.org/10.1109/ACC.2014.6859298)
- Tao Yang, Ye Yuan, Kezhi Li, **Jorge Goncalves**, Karl H. Johansson. "Finite-time road grade computation for a vehicle platoon", *Proceedings of the IEEE Conference on Decision and Control*, 2015-February - (February) - 6105-6110, [10.1109/CDC.2014.7040345](https://doi.org/10.1109/CDC.2014.7040345)
- Peyman Gifani, **Jorge Goncalves**. "Biexcitability and bursting mechanisms in neural and genetic circuits", *IFAC Proceedings Volumes (IFAC-PapersOnline)*, 19 - 4394-4399,
- Sebastien Varrette, Pascal Bouvry, Hyacinthe Cartiaux, **Fotis Georgatos**. "Management of an academic HPC cluster: The UL experience", *Proceedings of the 2014 International Conference on High Performance Computing and Simulation, HPCS 2014*, 959-967, [10.1109/HPCSim.2014.6903792](https://doi.org/10.1109/HPCSim.2014.6903792)
- **Pranjul Shah, Joelle Fritz**, Matt Estes, Frederic Zenhausern, **Paul Wilmes**. "HuMiX: A microfluidics-based in vitro co-culture device for investigating host-microbe molecular interactions", *18th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2014*, 300-302,
- Siddharth Samsi, **Christophe Trefois, Paul M A Antony, Alexander Skupin**. "Automated nuclei clump splitting by combining local concavity orientation and graph partitioning", *2014 IEEE-EMBS International Conference on Biomedical and Health Informatics, BHI 2014*, 412-415, [10.1109/BHI.2014.6864390](https://doi.org/10.1109/BHI.2014.6864390)

### Journal

- Sara Ortega-Cubero, Oswaldo Lorenzo-Betancor, Elena Lorenzo, José A G Agúndez, Félix J. Jiménez-Jiménez, Owen A. Ross, Isabel Wurster, Carina Mielke, Juei Jueng Lin, Francisco Coria, Jordi Clarimon, Mario Ezquerro, Laura Brighina, Grazia Annesi, Hortensia Alonso-Navarro, Elena García-Martin, Alex Gironell, Maria J. Martí, Kuo Chu Yueh, Zbigniew K. Wszolek, Manu Sharma, Daniela Berg, **Rejko Krüger**, Maria A. Pastor, Pau Pastor. "TREM2 R47H variant and risk of essential tremor: A cross-sectional international multicenter study", *Parkinsonism & Related Disorders*, 21 - (3) - 306-9, [10.1016/j.parkreldis.2014.12.010](https://doi.org/10.1016/j.parkreldis.2014.12.010)
- **Abhimanyu Krishna, Maria Biryukov, Christophe Trefois, Paul M A Antony, Rene Hussong, Jake Lin**, Merja Heinaniemi, Gustavo Glusman, **Sandra Koglsberger, Olga Boyd**, Bart H J van den Berg, Dennis Linke, David Huang, Kai Wang, Leroy Hood, Andreas Tholey, **Reinhard Schneider, David J Galas, Rudi Balling, Patrick May**. "Systems genomics evaluation of the SH-SY5Y neuroblastoma cell line as a model for Parkinson's disease.", *Bmc Genomics*, 15 - (1) - 1154, [10.1186/1471-2164-15-1154](https://doi.org/10.1186/1471-2164-15-1154)
- **Gokhan Ertaylan, Satoshi Okawa, Jens C Schwamborn, Antonio Del Sol**. "Gene regulatory network analysis reveals differences in site-specific cell fate determination in mammalian brain.", *Frontiers In Cellular Neuroscience*, 8 - (DEC) - 437, [10.3389/fncel.2014.00437](https://doi.org/10.3389/fncel.2014.00437)
- **Paul M A Antony, Olga Boyd, Christophe Trefois**, Wim Ammerlaan, **Marek Ostaszewski, Aidos S Baumuratov**, Laura Longhino, Laurent Antunes, Werner Koopman, **Rudi Balling, Nico J Diederich**. "Platelet mitochondrial membrane potential in Parkinson's disease.", *Annals Of Clinical And Translational Neurology*, 2 - (1) - 67-73, [10.1002/acn3.151](https://doi.org/10.1002/acn3.151)
- **Eugen Bauer**, Hassan Salem, Manja Marz, Heiko Vogel, Martin Kaltenpoth. "Transcriptomic immune response of the cotton stainer *dysdercus fasciatus* to experimental elimination of vitamin-supplementing intestinal symbionts", *Plos One*, 9 - (12) - [10.1371/journal.pone.0114865](https://doi.org/10.1371/journal.pone.0114865)
- **Dmitry A Ravcheev, Ines Thiele**. "Systematic genomic analysis reveals the complementary aerobic and anaerobic respiration capacities of the human gut microbiota.", *Frontiers In Microbiology*, 5 - (DEC) - 674, [10.3389/fmicb.2014.00674](https://doi.org/10.3389/fmicb.2014.00674)
- **Emilie MULLER, Anna BUSCHART, Hugo Roume, Laura LEBRUN, Paul WILMES**. "The sequential isolation of metabolites, RNA, DNA, and proteins from a single, undivided mixed microbial community sample", *Protocol Exchange*, [10.1038/protex.2014.051](https://doi.org/10.1038/protex.2014.051)
- Norman E Davey, **Venkata P Satagopam**, Salvador Santiago-Mozos, Carlos Villacorta-Martin, Tanmay A M Bharat, **Reinhard Schneider**, John A G Briggs. "The HIV mutation browser: a resource for human immunodeficiency virus mutagenesis and polymorphism data.", *Plos Computational Biology*, 10 - (12) - e1003951, [10.1371/journal.pcbi.1003951](https://doi.org/10.1371/journal.pcbi.1003951)
- Julian Schubert, Aleksandra Siekierska, **Melanie Langlois, Patrick May**, Clement Huneau, Felicitas Becker, Hiltrud Muhle, Arvid Suls, Johannes R Lemke, Carolien G F de Kovel, Holger Thiele, Kathryn Konrad, Amit Kawalia, Mohammad R Toliat, Thomas Sander, Franz Ruschendorf, Almuth Caliebe, Inga Nagel, Bernard Kohl, Angela Kecskes, Maxime Jacmin, Katia Hardies, Sarah Weckhuysen, Erik Riesch, Thomas Dorn, Eva H Brilstra, Stephanie Baulac, Rikke S Moller, Helle Hjalgrim, Bobby P C Koeleman, **EuroEPINOMICS RES Consortium, Roland Krause**, Karin Jurkat-Rott, Frank Lehman-Horn, Jared C Roach, Gustavo Glusman, Leroy Hood, **David J Galas**, Benoit Martin, Peter A M de Witte, Saskia Biskup, Peter De Jonghe, Ingo Helbig, **Rudi Balling**, Peter Nurnberg, **Alexander D Crawford**, Camila V Esguerra, Yvonne G Weber, Holger Lerche. "Mutations in STX1B, encoding a presynaptic protein, cause fever-associated epilepsy syndromes.", *Nature Genetics*, 46 - (12) - 1327-32, [10.1038/ng.3130](https://doi.org/10.1038/ng.3130)
- Mafalda Galhardo, Lasse Sinkkonen, Philipp Berninger, **Jake Lin**, Thomas Sauter, Merja Heinaniemi. "ChIP-seq profiling of the active chromatin marker H3K4me3 and PPARgamma, CEBPalpha and LXR target genes in human SGBS adipocytes.", *Genomics Data*, 2 - 230-6, [10.1016/j.gdata.2014.07.002](https://doi.org/10.1016/j.gdata.2014.07.002)
- Mafalda Galhardo, Lasse Sinkkonen, Philipp Berninger, **Jake Lin**, Thomas Sauter, Merja Heinaniemi. "Transcriptomics profiling of human SGBS adipogenesis.", *Genomics Data*, 2 - 246-8, [10.1016/j.gdata.2014.07.004](https://doi.org/10.1016/j.gdata.2014.07.004)
- **Emilie E L Muller, Abdul R Sheik, Paul Wilmes**. "Lipid-based biofuel production from wastewater.", *Current Opinion In Biotechnology*, 30 - 9-16, [10.1016/j.copbio.2014.03.007](https://doi.org/10.1016/j.copbio.2014.03.007)
- **Emilie E L Muller, Nicolas Pinel, Cedric C Laczny**, Michael R Hoopmann, **Shaman Narayanasamy, Laura A Lebrun, Hugo Roume, Jake Lin, Patrick May**, Nathan D Hicks, **Anna Heintz-Buschart, Linda Wampach**, Cindy M Liu, Lance B Price, John D Gillece, Cedric Guignard, James M Schupp, **Nikos Vlassis**, Nitin S Baliga, Robert L Moritz, Paul S Keim, **Paul Wilmes**. "Community-integrated omics links dominance of a microbial generalist to fine-tuned resource usage.", *Nature Communications*, 5 - 5603, [10.1038/ncomms6603](https://doi.org/10.1038/ncomms6603)
- **Swagatika Sahoo, Hulda S Haraldsdottir, Ronan M T Fleming, Ines Thiele**. "Modeling the effects of commonly used drugs on human metabolism.", *Febs Journal*, 282 - (2) - 297-317, [10.1111/febs.13128](https://doi.org/10.1111/febs.13128)
- **Jaclyn Nicole Le Grand, Laura Gonzalez-Cano, Maria Angeliki Pavlou, Jens C. Schwamborn**. "Neural stem cells in Parkinson's disease: A role for neurogenesis defects in onset and progression", *Cellular And Molecular Life Sciences*, 72 - (4) - 773-97, [10.1007/s00018-014-1774-1](https://doi.org/10.1007/s00018-014-1774-1)
- Nikolas Papanikolaou, Georgios A Pavlopoulos, Evangelos Pafilis, Theodosios Theodosiou, **Reinhard Schneider, Venkata P Satagopam**, Christos A Ouzounis, Aristides G Eliopoulos, Vasilis J Promponas, Ioannis Iliopoulos. "BioTextQuest(+): a knowledge integration platform for literature mining and concept discovery.", *Bioinformatics*, 30 - (22) - 3249-56, [10.1093/bioinformatics/btu524](https://doi.org/10.1093/bioinformatics/btu524)
- Johanna Huttenlocher, **Rejko Krüger**, Philipp Capetian, Katja Lohmann, Kathrin Brockmann, Ilona Csoti, Christine Klein, Daniela Berg, Thomas Gasser, Michael Bonin, Olaf Riess, Peter Bauer. "EIF4G1 is neither a strong nor a common risk factor for Parkinson's disease: Evidence from large European cohorts", *Journal Of Medical Genetics*, 52 - (1) - 37-41, [10.1136/jmedgenet-2014-102570](https://doi.org/10.1136/jmedgenet-2014-102570)
- Robert Kuffner, Neta Zach, Raquel Norel, Johann Hawe, David Schoenfeld, Liuxia Wang, Guang Li, Lilly Fang, Lester Mackey, Orla Hardiman, Merit Cudkovicz, Alexander Sherman, **Gokhan Ertaylan**, Moritz Grosse-Wentrup, Torsten Hothorn, Jules van Ligtenberg, Jakob H Macke, Timm Meyer, Bernhard Scholkopf, Linh Tran, Rubio Vaughan, Gustavo Stolovitzky, Melanie L Leitner. "Crowdsourced analysis of clinical trial data to predict amyotrophic lateral sclerosis progression.", *Nature Biotechnology*, 33 - (1) - 51-7, [10.1038/nbt.3051](https://doi.org/10.1038/nbt.3051)
- Warren A. Kibbe, Cesar Arze, Victor Felix, Elvira Mittra, Evan Bolton, Gang Fu, Christopher J. Mungall, **Janos X. Binder**, James Malone, Drashti Vasant, Helen Parkinson, Lynn M. Schriml. "Disease Ontology 2015 update: an expanded and updated database of human diseases for linking biomedical knowledge through disease data.", *Nucleic Acids Research*, 43 - (Database issue) - D1071-8, [10.1093/nar/gku1011](https://doi.org/10.1093/nar/gku1011)
- Wim Ammerlaan, **Jean Pierre Trezzi**, Conny Mathay, **Karsten Hiller**, Fay Betsou. "Method validation for preparing urine samples for downstream proteomic and metabolomic applications", *Biopreservation And Biobanking*, 12 - (5) - 351-357, [10.1089/bio.2014.0013](https://doi.org/10.1089/bio.2014.0013)
- **F. Bernard**, P. Gemmar, **A. Husch**, C. Saleh, H. Neb, G. Dooms, **F. Hertel**. "Improving the consistency of manual deep brain structure segmentations by combining variational interpolation, simultaneous multi-modality visualisation and histogram equilisation", *Biomedical Engineering-Biomedizinische Technik*, 59 - S620-S623,
- **Francisco J. Aragón Artacho**, Jonathan M. Borwein, Matthew K. Tam. "Recent Results on Douglas–Rachford Methods for Combinatorial Optimization Problems", *Journal Of Optimization Theory And Applications*, 163 - (1) - 1-30, [10.1007/s10957-013-0488-0](https://doi.org/10.1007/s10957-013-0488-0)



- **EuroEPINOMICS-RES Consortium**, Epilepsy Phenome/Genome Projec, Epi4K Consortium. "De novo mutations in synaptic transmission genes including DNM1 cause epileptic encephalopathies", *American Journal Of Human Genetics*, 95 - (4) - 360-370, [10.1016/j.ajhg.2014.08.013](https://doi.org/10.1016/j.ajhg.2014.08.013)
- Gunnar Hargus, Marc Ehrlich, Marcos J Arauzo-Bravo, **Kathrin Hemmer**, Anna-Lena Hallmann, Peter Reinhardt, Kee-Pyo Kim, Kenjiro Adachi, Simeon Santourlidis, Foued Ghanjati, Mareike Fauser, Christiana Ossig, Alexander Storch, Jeong Beom Kim, **Jens C Schwamborn**, Jared Sternecker, Hans R Scholer, Tanja Kuhlmann, Holm Zaehres. "Origin-dependent neural cell identities in differentiated human iPSCs in vitro and after transplantation into the mouse brain.", *Cell Reports*, 8 - (6) - 1697-1703, [10.1016/j.celrep.2014.08.014](https://doi.org/10.1016/j.celrep.2014.08.014)
- Janina Karres, Valerie Pratt, Jean Marc Guettier, Jean Temeck, William V. Tamborlane, David Dunger, Cristina Bejnariu, **Carine De Beaufort**, Paolo Tomasi. "Joining forces: A call for greater collaboration to study new medicines in children and adolescents with type 2 diabetes", *Diabetes Care*, 37 - (10) - 2665-2667, [10.2337/dc14-0494](https://doi.org/10.2337/dc14-0494)
- Pavlos Missios, Yuan Zhou, Luis Miguel Guachalla, Guido von Figura, **Andre Wegner**, Sundaram Reddy Chakkarappan, **Tina Binz**, Anne Gompf, Gotz Hartleben, Martin D Burkhalter, Veronika Wulff, Cagatay Gunes, Rui Wang Sattler, Zhangfa Song, Thomas Illig, Susanne Klaus, Bernhard O Bohm, Tina Wenz, **Karsten Hiller**, K Lenhard Rudolph. "Glucose substitution prolongs maintenance of energy homeostasis and lifespan of telomere dysfunctional mice.", *Nature Communications*, 5 - 4924, [10.1038/ncomms5924](https://doi.org/10.1038/ncomms5924)
- Mitra Mojtahedi, **Aymeric Fouquier D'Hérouël**, Sui Huang. "Direct elicitation of template concentration from quantification cycle (Cq) distributions in digital PCR", *Nucleic Acids Research*, 42 - (16) - e126, [10.1093/nar/gku603](https://doi.org/10.1093/nar/gku603)
- **Kathrin Hemmer**, Mingyue Zhang, **Thea van Wullen**, Marna Sakalem, Natalia Tapia, **Aidos Baumuratov**, Christian Kaltschmidt, Barbara Kaltschmidt, Hans R Scholer, Weiqi Zhang, **Jens C Schwamborn**. "Induced neural stem cells achieve long-term survival and functional integration in the adult mouse brain.", *Stem Cell Reports*, 3 - (3) - 423-31, [10.1016/j.stemcr.2014.06.017](https://doi.org/10.1016/j.stemcr.2014.06.017)
- **Francisco J. Aragón Artacho**, **Ronan M T Fleming**. "Globally convergent algorithms for finding zeros of duplomonotone mappings", *Optimization Letters*, 9 - (3) - 569-584, [10.1007/s11590-014-0769-z](https://doi.org/10.1007/s11590-014-0769-z)
- Nestor M Carballeira, Angela Gono Bwalya, Maurice Ayamba Itoe, Adriano D Andricopulo, **Maria Lorena Cordero-Maldonado**, Marcel Kaiser, Maria M Mota, **Alexander D Crawford**, Rafael V C Guido, Deniz Tasdemir. "2-Octadecynoic acid as a dual life stage inhibitor of Plasmodium infections and plasmodial FAS-II enzymes.", *Bioorganic & Medicinal Chemistry Letters*, 24 - (17) - 4151-7, [10.1016/j.bmcl.2014.07.050](https://doi.org/10.1016/j.bmcl.2014.07.050)
- **Almut Heinken**, M Tanweer Khan, Giuseppe Paglia, Dmitry A Rodionov, Hermie J M Harmsen, **Ines Thiele**. "Functional metabolic map of Faecalibacterium prausnitzii, a beneficial human gut microbe.", *Journal Of Bacteriology*, 196 - (18) - 3289-302, [10.1128/JB.01780-14](https://doi.org/10.1128/JB.01780-14)
- **Jochen G Schneider**, Berend Isermann, Marcus E Kleber, Hongjie Wang, Bernhard O Boehm, Tanja B Grammer, Florian Pruessler, Peter P Nawroth, Winfried Maerz. "Inverse association of the endogenous thrombin potential (ETP) with cardiovascular death: the Ludwigshafen Risk and Cardiovascular Health (LURIC) study.", *International Journal Of Cardiology*, 176 - (1) - 139-44, [10.1016/j.ijcard.2014.07.026](https://doi.org/10.1016/j.ijcard.2014.07.026)
- **Ines Thiele**, **Nikos Vlassis**, **Ronan M T Fleming**. "fastGapFill: efficient gap filling in metabolic networks.", *Bioinformatics*, 30 - (17) - 2529-31, [10.1093/bioinformatics/btu321](https://doi.org/10.1093/bioinformatics/btu321)
- **Feng Q. He**, Ulrike Sauermann, Christiane Beer, Silke Winkelmann, Zheng Yu, Sieghart Sopper, An Ping Zeng, Manfred Wirth. "Identification of molecular sub-networks associated with cell survival in a chronically SIVmac-infected human CD4+ T cell line", *Virology Journal*, 11 - (1) - [10.1186/1743-422X-11-152](https://doi.org/10.1186/1743-422X-11-152)
- Yaqub Jonmohamadi, Govinda Poudel, Carrie Innes, Daniel Weiss, **Rejko Krueger**, Richard Jones. "Comparison of beamformers for EEG source signal reconstruction", *Biomedical Signal Processing And Control*, 14 - (1) - 175-188, [10.1016/j.bspc.2014.07.014](https://doi.org/10.1016/j.bspc.2014.07.014)
- **Maïke K. Aurich**, Giuseppe Paglia, Óttar Rolfsson, Sigrún Hrafnadóttir, Manuela Magnúsdóttir, Magdalena M. Stefaniak, Bernhard Ø. Palsson, **Ronan M. T. Fleming**, **Ines Thiele**. "Prediction of intracellular metabolic states from extracellular metabolomic data.", *Metabolomics*, 11 - (3) - 603-619, [10.1007/s11306-014-0721-3](https://doi.org/10.1007/s11306-014-0721-3)
- Matthew A. Richards, Victor Cassen, Benjamin D. Heavner, Nassim E. Ajami, Andrea Herrmann, **Evangelos Simeonidis**, Nathan D. Price. "MediaDB: A database of microbial growth conditions in defined media", *Plos One*, 9 - (8) - e103548, [10.1371/journal.pone.0103548](https://doi.org/10.1371/journal.pone.0103548)
- Wim Ammerlaan, **Jean Pierre Trezzi**, Pierre Lescuyer, Conny Mathay, **Karsten Hiller**, Fay Betsou. "Method validation for preparing serum and plasma samples from human blood for downstream proteomic, metabolomic, and circulating nucleic acid-based applications", *Biopreservation And Biobanking*, 12 - (4) - 269-280, [10.1089/bio.2014.0003](https://doi.org/10.1089/bio.2014.0003)
- Hans V. Westerhoff, Aaron N. Brooks, **Evangelos Simeonidis**, Rodolfo García-Contreras, Fei He, Fred C. Boogerd, Victoria J. Jackson, Valeri Goncharuk, **Alexey Kolodkin**. "Macromolecular networks and intelligence in microorganisms", *Frontiers In Microbiology*, 5 - (JULY) - 379, [10.3389/fmicb.2014.00379](https://doi.org/10.3389/fmicb.2014.00379)
- Marlene J. Végh, **Antonio Rausell**, Maarten Loos, Céline M. Heldring, **Wiktor Jurkowski**, Pim Van Nierop, Iryna Paliukhovich, Ka Wan Li, **Antonio Del Sol**, August B. Smit, Sabine Spijker, Ronald E. Van Kesteren. "Hippocampal extracellular matrix levels and stochasticity in synaptic protein expression increase with age and are associated with age-dependent cognitive decline", *Molecular & Cellular Proteomics*, 13 - (11) - 2975-85, [10.1074/mcp.M113.032086](https://doi.org/10.1074/mcp.M113.032086)
- **Sean C Sapcariu**, Tamara Kanashova, **Daniel Weindl**, **Jenny Ghelfi**, Gunnar Dittmar, **Karsten Hiller**. "Simultaneous extraction of proteins and metabolites from cells in culture.", *Methods*, 1 - (1) - 74-80, [10.1016/j.mex.2014.07.002](https://doi.org/10.1016/j.mex.2014.07.002)
- Skarphedinn Halldorsson, **Edinson Lucumi**, Rafael Gómez-Sjöberg, **Ronan M T Fleming**. "Advantages and challenges of microfluidic cell culture in polydimethylsiloxane devices", *Biosensors & Bioelectronics*, 63 - 218-231, [10.1016/j.bios.2014.07.029](https://doi.org/10.1016/j.bios.2014.07.029)
- Guang-Hui Liu, Keiichiro Suzuki, Mo Li, Jing Qu, Nuria Montserrat, Carolina Tarantino, Ying Gu, Fei Yi, Xiuling Xu, Weiqi Zhang, Sergio Ruiz, Nongluk Plongthongkum, Kun Zhang, Shigeo Masuda, Emmanuel Nivet, Yuji Tsunekawa, Rupa Devi Soligalla, April Goebel, Emi Aizawa, Na Young Kim, Jessica Kim, Ilir Dubova, Ying Li, Ruotong Ren, Chris Benner, **Antonio del Sol**, Juan Bueren, Juan Pablo Trujillo, Jordi Surrallés, Enrico Cappelli, Carlo Dufour, Concepcion Rodriguez Esteban, Juan Carlos Izpisua Belmonte. "Modelling Fanconi anemia pathogenesis and therapeutics using integration-free patient-derived iPSCs.", *Nature Communications*, 5 - 4330, [10.1038/ncomms5330](https://doi.org/10.1038/ncomms5330)
- Eva M. Reinthaler, Dennis Lal, **Wiktor Jurkowski**, Martha Feucht, Hannelore Steinböck, Ursula Gruber-Sedlmayr, Gabriel M. Ronen, Julia Geldner, Edda Haberlandt, Birgit Neophytou, Andreas Hahn, Janine Altmüller, Holger Thiele, Mohammad R. Toliat, Holger Lerche, Peter Nürnberg, Thomas Sander, Bernd A. Neubauer, Fritz Zimprich. "Analysis of ELP4, SRPX2, and interacting genes in typical and atypical rolandic epilepsy", *Epilepsia*, 55 - (8) - [10.1111/epi.12712](https://doi.org/10.1111/epi.12712)
- Raffaele Ferrari, Dena G Hernandez, Michael A Nalls, Jonathan D Rohrer, Adaikalavan Ramasamy, John B J Kwok, Carol Dobson-Stone, William S Brooks, Peter R Schofield, Glenda M Halliday, John R Hodges, Olivier Piguet, Lauren Bartley, Elizabeth Thompson, Eric Haan, Isabel Hernandez, Agustin Ruiz, Merce Boada, Barbara Borroni, Alessandro Padovani, Carlos Cruchaga, Nigel J Cairns, Luisa Benussi, Giuliano Binetti, Roberta Ghidoni, Gianluigi Forloni, Daniela Galimberti, Chiara Fenoglio, Maria Serpente, Elio Scarpini, Jordi Clarimon, Alberto Lleo, Rafael Blesa, Maria Landqvist Waldo, Karin Nilsson, Christer Nilsson, Ian R A Mackenzie, Ging-Yuek R Hsiung, David M A Mann, Jordan Grafman, Christopher M Morris, Johannes Attems, Timothy D Griffiths, Ian G McKeith,

- Alan J Thomas, P Pietrini, Edward D Huey, Eric M Wassermann, Atik Baborie, Evelyn Jaros, Michael C Tierney, Pau Pastor, Cristina Razquin, Sara Ortega-Cubero, Elena Alonso, Robert Perneczky, Janine Diehl-Schmid, Panagiotis Alexopoulos, Alexander Kurz, Innocenzo Rainero, Elisa Rubino, Lorenzo Pinessi, Ekaterina Rogavaeva, Peter St George-Hyslop, Giacomina Rossi, Fabrizio Tagliavini, Giorgio Giaccone, James B Rowe, Johannes C M Schlachetzki, James Uphill, John Collinge, Simon Mead, Adrian Danek, Viviana M Van Deerlin, Murray Grossman, John Q Trojanowski, Julie van der Zee, William Deschamps, Tim Van Langenhove, Marc Cruys, Christine Van Broeckhoven, Stefano F Cappa, Isabelle Le Ber, Didier Hannequin, Veronique Galfier, Martine Vercelletto, Alexis Brice, Benedetta Nacmias, Sandro Sorbi, Silvia Bagnoli, Irene Piaceri, Jorgen E Nielsen, Lena E Hjerminnd, Matthias Riemenschneider, Manuel Mayhaus, Bernd Ibach, Gilles Gasparoni, Sabrina Pichler, **Wei Gu**, Martin N Rossor, Nick C Fox, Jason D Warren, Maria Grazia Spillantini, Huw R Morris, Patrizia Rizzu, Peter Heutink, Julie S Snowden, Sara Rollinson, Anna Richardson, Alexander Gerhard, Amalia C Bruni, Raffaele Maletta, Francesca Frangipane, Chiara Cupidi, Livia Bernardi, Maria Anfossi, Maura Gallo, Maria Elena Conidi, Nicoletta Smirne, Rosa Rademakers, Matt Baker, Dennis W Dickson, Neill R Graff-Radford, Ronald C Petersen, David Knopman, Keith A Josephs, Bradley F Boeve, Joseph E Parisi, William W Seeley, Bruce L Miller, Anna M Karydas, Howard Rosen, John C van Swieten, Elise G P Dopper, Harro Seelaar, Yolande A L Pijnenburg, Philip Scheltens, Giancarlo Logroscino, Rosa Capozzo, Valeria Novelli, Annibale A Puca, Massimo Franceschi, Alfredo Postiglione, Graziella Milan, Paolo Sorrentino, Mark Kristiansen, Huei-Hsin Chiang, Caroline Graff, Florence Pasquier, Adeline Rollin, Vincent Deramecourt, Florence Lebert, Dimitrios Kapogiannis, Luigi Ferrucci, Stuart Pickering-Brown, Andrew B Singleton, John Hardy, Parastoo Momeni. "Frontotemporal dementia and its subtypes: a genome-wide association study.", *Lancet Neurology*, 13 - (7) - 686-99, [10.1016/S1474-4422\(14\)70065-1](https://doi.org/10.1016/S1474-4422(14)70065-1)
- Guy Yachdav, Edda Kloppmann, Laszlo Kajan, Maximilian Hecht, Tatyana Goldberg, Tobias Hamp, Peter Hönigschmid, Andrea Schafferhans, Manfred Roos, Michael Bernhofer, Lothar Richter, Haim Ashkenazy, Marco Punta, Avner Schlessinger, Yana Bromberg, **Reinhard Schneider**, Gerrit Vriend, Chris Sander, Nir Ben-Tal, Burkhard Rost. "PredictProtein - An open resource for online prediction of protein structural and functional features", *Nucleic Acids Research*, 42 - (Web Server issue) - W337-43, [10.1093/nar/gku366](https://doi.org/10.1093/nar/gku366)
  - Kevin Thurley, Stephen C Tovey, Gregor Moenke, Victoria L Prince, Abha Meena, Andrew P Thomas, **Alexander Skupin**, Colin W Taylor, Martin Falcke. "Reliable encoding of stimulus intensities within random sequences of intracellular Ca<sup>2+</sup> spikes.", *Science Signaling*, 7 - (331) - ra59, [10.1126/scisignal.2005237](https://doi.org/10.1126/scisignal.2005237)
  - Liviu-Gabriel Bodea, Yiner Wang, Bettina Linnartz-Gerlach, Jens Kopatz, **Lasse Sinkkonen**, Ruth Musgrove, Tony Kaoma, Arnaud Muller, Laurent Vallar, Donato A Di Monte, **Rudi Balling**, Harald Neumann. "Neurodegeneration by activation of the microglial complement-phagosome pathway.", *Journal Of Neuroscience*, 34 - (25) - 8546-56, [10.1523/JNEUROSCI.5002-13.2014](https://doi.org/10.1523/JNEUROSCI.5002-13.2014)
  - Natalia Szostak, Felix Royo, Agnieszka Rybarczyk, Marta Szachniuk, Jacek Blazewicz, **Antonio del Sol**, Juan M Falcon-Perez. "Sorting signal targeting mRNA into hepatic extracellular vesicles.", *Rna Biology*, 11 - (7) - 836-44, [10.4161/rna.29305](https://doi.org/10.4161/rna.29305)
  - Cecilia Garmendia-Torres, **Alexander Skupin**, Sean A Michael, Pekka Ruusuvuori, Nathan J Kuwada, Didier Falconnet, Gregory A Cary, Carl Hansen, Paul A Wiggins, Aimee M Dudley. "Unidirectional P-body transport during the yeast cell cycle.", *Plos One*, 9 - (6) - e99428, [10.1371/journal.pone.0099428](https://doi.org/10.1371/journal.pone.0099428)
  - Thanneer Malai Perumal**, Rudiyanto Gunawan. "PathPSA: A dynamical pathway-based parametric sensitivity analysis", *Industrial & Engineering Chemistry Research*, 53 - (22) - 9149-9157, [10.1021/ie403277d](https://doi.org/10.1021/ie403277d)
  - Antonio Del Sol**, Noel J Buckley. "A population shift view of cellular reprogramming.", *Stem Cells*, 32 - (6) - 1367-72, [10.1002/stem.1627](https://doi.org/10.1002/stem.1627)
  - Lindsay M. Edwards, Martin I. Sigurdsson, Peter A. Robbins, Michael E. Weale, Gianpiero L. Cavalleri, Hugh E. Montgomery, **Ines Thiele**. "Genome-scale methods converge on key mitochondrial genes for the survival of human cardiomyocytes in Hypoxia", *Circulation-Cardiovascular Genetics*, 7 - (4) - 407-15, [10.1161/CIRCGENETICS.113.000269](https://doi.org/10.1161/CIRCGENETICS.113.000269)
  - Sarah Killcoyne**, **Antonio del Sol**. "FIGG: simulating populations of whole genome sequences for heterogeneous data analyses.", *Bmc Bioinformatics*, 15 - (1) - 149, [10.1186/1471-2105-15-149](https://doi.org/10.1186/1471-2105-15-149)
  - Hao Hu, Jared C. Roach, Hilary Coon, Stephen L. Guthery, Karl V. Voelkerding, Rebecca L. Margraf, Jacob D. Durtschi, Sean V. Tavtigian, Shankaracharya, Wilfred Wu, Paul Scheet, Shuoguo Wang, Jinchuan Xing, Gustavo Glusman, Robert Hubley, Hong Li, Vidu Garg, Barry Moore, Leroy Hood, **David J. Galas**, Deepak Srivastava, Martin G. Reese, Lynn B. Jorde, Mark Yandell, Chad D. Huff. "A unified test of linkage analysis and rare-variant association for analysis of pedigree sequence data", *Nature Biotechnology*, 32 - (7) - 663-9, [10.1038/nbt.2895](https://doi.org/10.1038/nbt.2895)
  - Alexandre Y. Marbaix, Donatienne Tyteca, Tom D. Niehaus, Andrew D. Hanson, **Carole L. Linster**, Emile Van Schaftingen. "Occurrence and subcellular distribution of the NAD(P)HX repair system in mammals", *Biochemical Journal*, 460 - (1) - 49-58, [10.1042/BJ20131482](https://doi.org/10.1042/BJ20131482)
  - Padhmanand Sudhakar, Michael Reck, Wei Wang, **Feng Q. He**, Irene W. Dobler, An Ping Zeng. "Construction and verification of the transcriptional regulatory response network of Streptococcus mutans upon treatment with the biofilm inhibitor carolacton", *Bmc Genomics*, 15 - (1) - [10.1186/1471-2164-15-362](https://doi.org/10.1186/1471-2164-15-362)
  - A K Krug, S Gutbier, L Zhao, D Polt, C Kullmann, V Ivanova, S Forster, S Jagtap, **J Meiser**, G Leparc, S Schildknecht, M Adam, **K Hiller**, H Farhan, T Brunner, T Hartung, A Sachinidis, M Leist. "Transcriptional and metabolic adaptation of human neurons to the mitochondrial toxicant MPP(+).", *Cell Death & Disease*, 5 - (5) - e1222, [10.1038/cddis.2014.166](https://doi.org/10.1038/cddis.2014.166)
  - Nikos Vlassis**, Raphaël Jungers. "Polytopic uncertainty for linear systems: New and old complexity results", *Systems & Control Letters*, 67 - (1) - 9-13, [10.1016/j.sysconle.2014.02.001](https://doi.org/10.1016/j.sysconle.2014.02.001)
  - M M A Worlitzer, **J C Schwamborn**. "The Notch co-repressor protein NKAP is highly expressed in adult mouse subventricular zone neural progenitor cells.", *Neuroscience*, 266 - 138-49, [10.1016/j.neuroscience.2014.02.019](https://doi.org/10.1016/j.neuroscience.2014.02.019)
  - Nico J. Diederich**, Glenn Stebbins, Christine Schiltz, Christopher G. Goetz. "Are patients with Parkinson's disease blind to blindsight?", *Brain*, 137 - (6) - 1838-1849, [10.1093/brain/awu094](https://doi.org/10.1093/brain/awu094)
  - Luisa W Hugerth, **Emilie E L Muller**, Yue O O Hu, **Laura A M Lebrun**, **Hugo Roume**, Daniel Lundin, **Paul Wilmes**, Anders F Andersson. "Systematic design of 18S rRNA gene primers for determining eukaryotic diversity in microbial consortia.", *Plos One*, 9 - (4) - e95567, [10.1371/journal.pone.0095567](https://doi.org/10.1371/journal.pone.0095567)
  - Caroline Nava, Carine Dalle, Agnès Rastetter, Pasquale Striano, Carolien G F De Kovel, Rima Nabbout, Claude Cancès, Dorothee Ville, Eva H. Brillstra, Giuseppe Gobbi, Emmanuel Raffo, Delphine Bouteiller, Yannick Marie, Oriane Trouillard, Angela Robbiano, Boris Keren, Dabha Agher, Emmanuel Roze, Suzanne Lesage, Aude Nicolas, Alexis Brice, Michel Baulac, Cornelia Vogt, Nady El Hajj, Eberhard Schneider, Arvid Suls, Sarah Weckhuysen, Padhraig Gormley, Anna Elina Lehesjoki, Peter De Jonghe, Ingo Helbig, Stéphanie Baulac, Federico Zara, Bobby P C Koeleman, **EuroEPINOMICS RES Consortium**, Thomas Haaf, Eric Leguern, Christel Depienne. "De novo mutations in HCN1 cause early infantile epileptic encephalopathy", *Nature Genetics*, 46 - (6) - 640-645, [10.1038/ng.2952](https://doi.org/10.1038/ng.2952)
  - Gudrun Leidig-Bruckner, Sonja Grobholz, Thomas Bruckner, Christa Scheidt-Nave, Peter Nawroth, **Jochen G. Schneider**. "Prevalence and determinants of osteoporosis in patients with type 1 and type 2 diabetes mellitus", *Bmc Endocrine Disorders*, 14 - 33, [10.1186/1472-6823-14-33](https://doi.org/10.1186/1472-6823-14-33)
  - Cedric C Laczny**, **Nicolas Pinel**, **Nikos Vlassis**, **Paul Wilmes**. "Alignment-free visualization of metagenomic data by nonlinear dimension reduction.", *Scientific Reports*, 4 - 4516, [10.1038/srep04516](https://doi.org/10.1038/srep04516)

- **Tomasz M Ignac, Alexander Skupin, Nikita A Sakhanenko, David J Galas.** "Discovering pair-wise genetic interactions: an information theory-based approach.", Plos One, 9 - (3) - e92310, [10.1371/journal.pone.0092310](https://doi.org/10.1371/journal.pone.0092310)
- **Géraldine Hipp, Nico J. Diederich, Vannina Pieria, Michel Vaillant.** "Primary vision and facial emotion recognition in early Parkinson's disease", Journal Of The Neurological Sciences, 338 - (1-2) - 178-82, [10.1016/j.jns.2013.12.047](https://doi.org/10.1016/j.jns.2013.12.047)
- **Swagatika Sahoo, Maiké K Aurich, Jon J Jonsson, Ines Thiele.** "Membrane transporters in a human genome-scale metabolic knowledgebase and their implications for disease.", Frontiers In Physiology, 5 - 91, [10.3389/fphys.2014.00091](https://doi.org/10.3389/fphys.2014.00091)
- **Abdul R Sheik, Emilie E L Muller, Paul Wilmes.** "A hundred years of activated sludge: time for a rethink.", Frontiers In Microbiology, 5 - (MAR) - 47, [10.3389/fmicb.2014.00047](https://doi.org/10.3389/fmicb.2014.00047)
- **Janos X Binder, Sune Pletscher-Frankild, Kalliopi Tsafo, Christian Stolte, Sean I O'Donoghue, Reinhard Schneider, Lars Juhl Jensen.** "COMPARTMENTS: unification and visualization of protein subcellular localization evidence.", Database-The Journal Of Biological Databases And Curation, 2014 - bau012, [10.1093/database/bau012](https://doi.org/10.1093/database/bau012)
- **Nils Christian, Alexander Skupin, Silvia Morante, Karl Jansen, Giancarlo Rossi, Oliver Ebenhoh.** "Mesoscopic behavior from microscopic Markov dynamics and its application to calcium release channels.", Journal Of Theoretical Biology, 343 - 102-12, [10.1016/j.jtbi.2013.11.010](https://doi.org/10.1016/j.jtbi.2013.11.010)
- **Andre Wegner, Daniel Weindl, Christian Jager, Sean C Sapcaru, Xiangyi Dong, Gregory Stephanopoulos, Karsten Hiller.** "Fragment formula calculator (FFC): determination of chemical formulas for fragment ions in mass spectrometric data.", Analytical Chemistry, 86 - (4) - 2221-8, [10.1021/ac403879d](https://doi.org/10.1021/ac403879d)
- **Mafalda Galhardo, Lasse Sinkkonen, Philipp Berninger, Jake Lin, Thomas Sauter, Merja Heinaniemi.** "Integrated analysis of transcript-level regulation of metabolism reveals disease-relevant nodes of the human metabolic network.", Nucleic Acids Research, 42 - (3) - 1474-96, [10.1093/nar/gkt989](https://doi.org/10.1093/nar/gkt989)
- **Kazuhiro A. Fujita, Marek Ostaszewski, Yukiko Matsuoka, Samik Ghosh, Enrico Glaab, Christophe Trefois, Isaac Crespo, Thanneer M. Perumal, Wiktor Jurkowski, Paul M A Antony, Nico Diederich, Manuel Buttini, Akihiko Kodama, Venkata P. Satagopam, Serge Eifes, Antonio Del Sol, Reinhard Schneider, Hiroaki Kitano, Rudi Balling.** "Integrating pathways of parkinson's disease in a molecular interaction map", Molecular Neurobiology, 49 - (1) - 88-102, [10.1007/s12035-013-8489-4](https://doi.org/10.1007/s12035-013-8489-4)
- **David J. Galas, Nikita A. Sakhanenko, Alexander Skupin, Tomasz Ignac.** "Describing the complexity of systems: Multivariable "set complexity" and the information basis of systems biology", Journal Of Computational Biology, 21 - (2) - 118-140, [10.1089/cmb.2013.0039](https://doi.org/10.1089/cmb.2013.0039)
- **Ying Gu, Guang Hui Liu, Nongluk Plongthongkum, Christopher Benner, Fei Yi, Jing Qu, Keiichi Suzuki, Jiping Yang, Weiqi Zhang, Mo Li, Nuria Montserrat, Isaac Crespo, Antonio del Sol, Concepcion Rodriguez Esteban, Kun Zhang, Juan Carlos Izpisua Belmonte.** "Global DNA methylation and transcriptional analyses of human ESC-derived cardiomyocytes", Protein & Cell, 5 - (1) - 59-68, [10.1007/s13238-013-0016-x](https://doi.org/10.1007/s13238-013-0016-x)
- **W. Frohberg, M. Kierzyńska, J. Blazewicz, P. Gawron, P. Wojciechowski.** "G-DNA - A highly efficient multi-GPU/MPI tool for aligning nucleotide reads", Bulletin Of The Polish Academy Of Sciences-Technical Sciences, 61 - (4) - 989-992, [10.2478/bpasts-2013-0106](https://doi.org/10.2478/bpasts-2013-0106)
- **Hulda S. Haraldsdóttir, Ines Thiele, Ronan M T Fleming.** "Comparative evaluation of open source software for mapping between metabolite identifiers in metabolic network reconstructions: Application to Recon 2", Journal Of Cheminformatics, 6 - (1) - [10.1186/1758-2946-6-2](https://doi.org/10.1186/1758-2946-6-2)
- **Nikos Vlassis, Maria Pires Pacheco, Thomas Sauter.** "Fast reconstruction of compact context-specific metabolic network models.", Plos Computational Biology, 10 - (1) - e1003424, [10.1371/journal.pcbi.1003424](https://doi.org/10.1371/journal.pcbi.1003424)
- **Maria Bouvy-Liivrand, Merja Heinaniemi, Elisabeth John, Jochen G Schneider, Thomas Sauter, Lasse Sinkkonen.** "Combinatorial regulation of lipoprotein lipase by microRNAs during mouse adipogenesis.", Rna Biology, 11 - (1) - 76-91, [10.4161/rna.27655](https://doi.org/10.4161/rna.27655)
- **Veronica Steri, Tim S. Ellison, Aleksander Maksym Gontarczyk, Katherine Weilbaecher, Jochen G. Schneider, Dylan Edwards, Marcus Fruttiger, Kairbaan M. Hodivala-Dilke, Stephen Douglas Robinson.** "Acute depletion of endothelial  $\beta$ 3-integrin transiently inhibits tumor growth and angiogenesis in mice", Circulation Research, 114 - (1) - 79-91, [10.1161/CIRCRESAHA.114.301591](https://doi.org/10.1161/CIRCRESAHA.114.301591)
- **J. G. Schneider, B. Isermann, M. E. Kleber, W. Maerz.** "Thrombin: Friend or foe - News on "thrombin paradox"", Vasomed, 26 - (6) - 774-784,
- **Jean Bousquet, Christian Jorgensen, Michel Dautat, Alfredo Cesario, Thierry Camuzat, Rodolphe Bourret, Nicolas Best, Josep M. Anto, Frédéric Abecassis, Pierre Aubas, Antoine Avignon, Mélanie Badin, Anna Bedbrook, Hubert Blain, Arnaud Bourdin, Jacques Bringer, William Camu, Guilhaume Cayla, David J. Costa, Philippe Courtet, Jean Paul Cristol, Pascal Demoly, Jean Emmanuel de la Coussaye, Pierre Fesler, Fares Gouzi, Jean Christophe Gris, Bernard Guillot, Maurice Hayot, Claude Jeandel, Olivier Jonquet, Laurent Journot, Sylvain Lehmann, Gwenaëlle Mathieu, Jacques Morel, Grégory Ninot, Jacques Pélissier, Marie Christine Picot, Françoise Rabier-Pontal, Jean Marie Robine, Michel Rodier, Ariane Sultan, Anne Wojtuszczyzn, Charles Auffray, Rudi Balling, Cristina Bárbara, Anne Cambon-Thomsen, Niels H. Chavannes, Alexander Chuchalin, George Crooks, Antoni Dedeu, Leonardo M Fabbri, Judith Garcia-Aymeric, Jawad Hassan, Elisabete Melo Gomes, Susana Palkonen, François Piette, Christophe Pison, David Price, Boleslaw Samolinski, Holger J. Schünemann, Peter J. Sterk, Panayitakis Yiallourous, Josep Roca, Philippe Vande Perre, Jacques Mercier.** "Systems medicine approaches for the definition of complex phenotypes in chronic diseases and ageing. From concept to implementation and policies", Current Pharmaceutical Design, 20 - (38) - 5928-5944, [10.2174/1381612820666140314115505](https://doi.org/10.2174/1381612820666140314115505)
- **Alfredo Cesario, Charles Auffray, Alvar Agusti, Giovanni Apolone, Rudi Balling, Piero Barbanti, Alfonso Bellia, Stefania Boccia, Jean Bousquet, Vittorio Cardaci, Mario Cazzola, Valentina Dall'Armi, Nikolai Daraselia, Lucio D a Ros, Alessandra D el Bufalo, Giuseppe Ducci, Luigi Ferri, Massimo Fini, Chiara Fossati, Gianfranco Gensini, Pierluigi Maria Granone, James Kinross, Davide Lauro, Gerland L o Cascio, Filippo Lococo, Achille Lococo, Dieter Maier, Frederick Marcus, Stefano Margaritora, Camillo Marra, Gianfranco Minati, Monica Neri, Franco Pasqua, Christophe Pison, Christian Pristipino, Joseph Roca, Giuseppe Rosano, Paolo Maria Rossini, Patrizia Russo, Gianluca Salinaro, Shani Shenhar, Hermona Soreq, Peter J. Sterk, Fabrizio Stocchi, Margherita Torti, Maurizio Volterrani, Emiel F M Wouters, Alessandra Frustaci, Stefano Bonassi.** "A systems medicine clinical platform for understanding and managing non-communicable diseases", Current Pharmaceutical Design, 20 - (38) - 5945-5956, [10.2174/1381612820666140314130449](https://doi.org/10.2174/1381612820666140314130449)
- **Pekka Ruusuvuori, Jake Lin, Adrian C. Scott, Zhihao Tan, Saija Sorsa, Aleks Kallio, Matti Nykter, Olli Yli-Harja, Ilya Shmulevich, Aimée M. Dudley.** "Quantitative analysis of colony morphology in yeast", Biotechniques, 56 - (1) - 18-27, [10.2144/000114123](https://doi.org/10.2144/000114123)

## 2013

### Book

- **Jacek Blazewicz, Marta Kasprzak, Nikos Vlassis.** "Ties between Graph Theory and Biology", Handbook of Graph Theory, Second Edition, 1559-1579, [10.1201/b16132-93](https://doi.org/10.1201/b16132-93)

- Ming Jen Lee, Alton Etheridge, **David J. Galas**, Kai Wang. "Molecular pathogenesis of neurofibromatosis type 1", Neurofibromatosis Type 1: Symptoms, Treatment and Prognosis, 1-22,
- **Hugo Roume, Anna Heintz-Buschart, Emilie E L Muller, Paul Wilmes**. "Sequential isolation of metabolites, RNA, DNA, and proteins from the same unique sample.", Methods in Enzymology, Methods In Enzymology, 531 - 219-36, [10.1016/B978-0-12-407863-5.00011-3](https://doi.org/10.1016/B978-0-12-407863-5.00011-3)
- **Fotis Georgatos**, Stéphane Ballereau, Johann Pellet, Moustafa Ghanem, Nathan Price, Leroy Hood, Yi Ke Guo, Dominique Boutigny, Charles Auffray, **Rudi Balling, Reinhard Schneider**. "Computational infrastructures for data and knowledge management in systems biology", Systems Biology, 1 - 377-397, [10.1007/978-94-007-6803-1\\_13](https://doi.org/10.1007/978-94-007-6803-1_13)
- Amphun Chaiboonchoe, **Wiktor Jurkowski**, Johann Pellet, **Enrico Glaab, Alexey Kolodkin, Antonio Rausssel**, Antony Le Béchech, Stéphane Ballereau, Laurene Meyniel, **Isaac Crespo**, Hassan Ahmed, Vitaly Volpert, Vincent Lotteau, Nitin Baliga, **Leroy Hood, Antonio Del Sol, Rudi Balling**, Charles Auffray. "On different aspects of network analysis in systems biology", Systems Biology, 1 - 181-207, [10.1007/978-94-007-6803-1\\_6](https://doi.org/10.1007/978-94-007-6803-1_6)
- Stéphane Ballereau, **Enrico Glaab, Alexei Kolodkin**, Amphun Chaiboonchoe, **Maria Biryukov, Nikos Vlassis**, Hassan Ahmed, Johann Pellet, Nitin Baliga, Leroy Hood, **Reinhard Schneider, Rudi Balling**, Charles Auffray. "Functional genomics, proteomics, metabolomics and bioinformatics for systems biology", Systems Biology, 1 - 3-41, [10.1007/978-94-007-6803-1\\_1](https://doi.org/10.1007/978-94-007-6803-1_1)
- **Evangelos Simeonidis**, Sriram Chandrasekaran, Nathan D Price. "A guide to integrating transcriptional regulatory and metabolic networks using PROM (probabilistic regulation of metabolism).", Systems Metabolic Engineering, 985 - 103-12, [10.1007/978-1-62703-299-5\\_6](https://doi.org/10.1007/978-1-62703-299-5_6)

## Book Series

- Michael Emmerich, André Deutz, Oliver Schütze, Thomas Bäck, **Emilia Tantar**, Alexandru Adrian Tantar, Pierre Del Moral, Pierrick Legrand, Pascal Bouvry, Carlos A. Coello. "EVOLVE - a bridge between probability, set oriented numerics, and evolutionary computation IV: International conference held at leiden university, July 10-13, 2013", Advances in Intelligent Systems and Computing, 227 - [10.1007/978-3-319-01128-8](https://doi.org/10.1007/978-3-319-01128-8)

## Conference Proceeding

- Evangelos Pafilis, Georgios A. Pavlopoulos, **Venkata P. Satagopam**, Nikolas Papanikolaou, Heiko Horn, Christos Arvanitidis, Lars Juhl Jensen, **Reinhard Schneider**, Ioannis Iliopoulos. "OnTheFly 2.0: A tool for automatic annotation of files and biological information extraction", 13th IEEE International Conference on Bioinformatics and BioEngineering, IEEE BIBE 2013, [10.1109/BIBE.2013.6701679](https://doi.org/10.1109/BIBE.2013.6701679)
- Ibrahima Ndoeye, Holger Voos, Mohamed Darouach, **Jochen G. Schneider**, Nicolas Knauf. "H<sup>∞</sup> static output feedback control for a fractional-order glucose-insulin system", IFAC Proceedings Volumes (IFAC-PapersOnline), 46 - (1) - 266-271, [10.3182/20130204-3-FR-4032.00185](https://doi.org/10.3182/20130204-3-FR-4032.00185)

## Journal

- Stefan Wilkening, Gen Lin, Emilie S. Fritsch, Manu M. Tekkedil, Simon Anders, Raquel Kuehn, Michelle Nguyen, Raeka S. Aiyar, Michael Proctor, Nikita A. Sakhanenko, **David J. Galas**, Julien Gagneur, Adam Deutschbauer, Lars M. Steinmetz. "An evaluation of high-throughput approaches to QTL mapping in Saccharomyces cerevisiae", Genetics, 196 - (3) - 853-865, [10.1534/genetics.113.160291](https://doi.org/10.1534/genetics.113.160291)
- **Jake Lin**, Richard Kreisberg, Aleksis Kallio, Aimee M Dudley, Matti Nykter, Ilya Shmulevich, **Patrick May**, Reija Autio. "POMO--Plotting Omics analysis results for Multiple Organisms.", BMC Genomics, 14 - (1) - 918, [10.1186/1471-2164-14-918](https://doi.org/10.1186/1471-2164-14-918)
- **A-L Hillje, M A S Pavlou**, E Beckmann, M M A Worlitzer, **L Bahnassawy**, L Lewejohann, T Palm, **J C Schwamborn**. "TRIM32-dependent transcription in adult neural progenitor cells regulates neuronal differentiation.", Cell Death & Disease, 4 - (12) - e976-, [10.1038/cddis.2013.487](https://doi.org/10.1038/cddis.2013.487)
- **Isaac Crespo, Thanneer M Perumal, Wiktor Jurkowski, Antonio del Sol**. "Detecting cellular reprogramming determinants by differential stability analysis of gene regulatory networks.", BMC Systems Biology, 7 - 140, [10.1186/1752-0509-7-140](https://doi.org/10.1186/1752-0509-7-140)
- Evelien Gebruers, **Maria Lorena Cordero-Maldonado**, Alexander I Gray, Carol Clements, Alan L Harvey, Ruangelie Edrada-Ebel, Peter A M de Witte, **Alexander D Crawford**, Camila V Esguerra. "A phenotypic screen in zebrafish identifies a novel small-molecule inducer of ectopic tail formation suggestive of alterations in non-canonical Wnt/PCP signaling.", Plos One, 8 - (12) - e83293, [10.1371/journal.pone.0083293](https://doi.org/10.1371/journal.pone.0083293)
- Gareth A. Cromie, Katie E. Hyma, Catherine L. Ludlow, Cecilia Garmendia-Torres, Teresa L. Gilbert, **Patrick May**, Angela A. Huang, Aimée M. Dudley, Justin C. Fay. "Genomic sequence diversity and population structure of Saccharomyces cerevisiae assessed by RAD-seq", G3-Genes Genomes Genetics, 3 - (12) - 2163-2171, [10.1534/g3.113.007492](https://doi.org/10.1534/g3.113.007492)
- Azazul Chowdhury, **Venkata P. Satagopam**, Levon Manukyan, Konstantin A. Artemenko, Yi Man Eva Fung, **Reinhard Schneider**, Jonas Bergquist, Peter Bergsten. "Signaling in insulin-secreting MIN6 pseudoislets and monolayer cells", Journal Of Proteome Research, 12 - (12) - 5954-5962, [10.1021/pr400864w](https://doi.org/10.1021/pr400864w)
- Shawn McGuirk, Simon-Pierre Gravel, Genevieve Deblois, David J Papadopolis, Brandon Faubert, **Andre Wegner, Karsten Hiller**, Daina Avizonis, Uri David Akavia, Russell G Jones, Vincent Giguere, Julie St-Pierre. "PGC-1alpha supports glutamine metabolism in breast cancer.", Cancer & Metabolism, 1 - (1) - 22, [10.1186/2049-3002-1-22](https://doi.org/10.1186/2049-3002-1-22)
- **Serge Eifes**, Kishan K Chudasama, Janne Molnes, Kerstin Wagner, Tuyen Hoang, Ulrike Schierloh, Danielle Rocour-Brumioul, Stefan Johansson, Pal R Njolstad, **Carine de Beaufort**. "A novel GATA6 mutation in a child with congenital heart malformation and neonatal diabetes.", Clinical Case Reports, 1 - (2) - 86-90, [10.1002/ccr3.33](https://doi.org/10.1002/ccr3.33)
- **Paul M A Antony, Nico J Diederich, Rejko Kruger, Rudi Balling**. "The hallmarks of Parkinson's disease.", Febs Journal, 280 - (23) - 5981-93, [10.1111/febs.12335](https://doi.org/10.1111/febs.12335)
- Stephan Schiekofler, Izabela Bobak, Marcus E. Kleber, Winfried Maerz, Gottfried Rudofsky, Klaus A. Dugi, **Jochen G. Schneider**. "Association between a gene variant near ataxia telangiectasia mutated and coronary artery disease in men", Diabetes & Vascular Disease Research, 11 - (1) - 60-63, [10.1177/1479164113514232](https://doi.org/10.1177/1479164113514232)
- **Feng Q. He**, Wei Wang, Ping Zheng, Padhmanand Sudhakar, Jibin Sun, An Ping Zeng. "Essential O2-responsive genes of Pseudomonas aeruginosa and their network revealed by integrating dynamic data from inverted conditions", Integrative Biology, 6 - (2) - 215-223, [10.1039/c3ib40180d](https://doi.org/10.1039/c3ib40180d)
- Olivia Erin Buenafe, Adriana Orellana-Paucar, Jan Maes, Hao Huang, Xuhui Ying, Wim De Borggraeve, **Alexander D. Crawford**, Walter Luyten, Camila V. Esguerra, Peter De Witte. "Tanshinone IIA exhibits anticonvulsant activity in zebrafish and mouse seizure models", ACS Chemical Neuroscience, 4 - (11) - 1479-1487, [10.1021/cn400140e](https://doi.org/10.1021/cn400140e)

- Ryan P. Roop, Michael J. Naughton, Catherine Van Poznak, **Jochen G. Schneider**, Philip E. Lammers, Timothy J. Pluard, Farley Johnson, Charles S. Eby, Katherine N. Weilbaecher. "A randomized phase ii trial investigating the effect of platelet function inhibition on circulating tumor cells in patients with metastatic breast cancer", *Clinical Breast Cancer*, 13 - (6) - 409-15, [10.1016/j.clbc.2013.08.006](https://doi.org/10.1016/j.clbc.2013.08.006)
- Arvid Suls, Johanna A. Jaehn, Angela Kecskés, Yvonne Weber, Sarah Weckhuysen, Dana C. Craiu, Aleksandra Siekierska, Tania Djémie, Tatiana Afrikanova, Padhraig Gormley, Sarah Von Spiczak, Gerhard Kluger, Catrinel M. Iliescu, Tiina Talvik, Inga Talvik, Cihan Meral, Hande S. Caglayan, Beatriz G. Giraldez, José Serratos, Johannes R. Lemke, Dorota Hoffman-Zacharska, Elzbieta Szczepanik, Nina Barisic, Vladimir Komarek, Helle Hjalgrim, Rikke S. Møller, Tarja Linnankivi, Petia Dimova, Pasquale Striano, Federico Zara, Carla Marini, Renzo Guerrini, Christel Depienne, Stéphanie Baulac, Gregor Kuhlenbäumer, **Alexander D. Crawford**, Anna Elina Lehesjoki, Peter A M De Witte, Aarno Palotie, Holger Lerche, Camila V. Esguerra, Peter De Jonghe, Ingo Helbig, **EuroEPINOMICS RES Consortium**. "De novo loss-of-function mutations in CHD2 cause a fever-sensitive myoclonic epileptic encephalopathy sharing features with dravet syndrome", *American Journal Of Human Genetics*, 93 - (5) - 967-975, [10.1016/j.ajhg.2013.09.017](https://doi.org/10.1016/j.ajhg.2013.09.017)
- Klaus Schughart, Claude Libert, **SYSGENET consortium**, Martien J. Kas. "Controlling complexity: The clinical relevance of mouse complex genetics", *European Journal Of Human Genetics*, 21 - (11) - 1191-1196, [10.1038/ejhg.2013.79](https://doi.org/10.1038/ejhg.2013.79)
- Kiran Kumar Bali, Deepitha Selvaraj, **Venkata P. Satagopam**, Jianning Lu, **Reinhard Schneider**, Rohini Kuner. "Genome-wide identification and functional analyses of microRNA signatures associated with cancer pain", *Embo Molecular Medicine*, 5 - (11) - 1740-58, [10.1002/emmm.201302797](https://doi.org/10.1002/emmm.201302797)
- Jeroen de Ridder, Yana Bromberg, Magali Michaut, **Venkata P. Satagopam**, Manuel Corpas, Geoff Macintyre, Theodore Alexandrov. "The Young PI Buzz: Learning from the Organizers of the Junior Principal Investigator Meeting at ISMB-ECCB 2013", *Plos Computational Biology*, 9 - (11) - [10.1371/journal.pcbi.1003350](https://doi.org/10.1371/journal.pcbi.1003350)
- F. J. Aragón Artacho**, A. Belyakov, A. L. Dontchev, M. López. "Local convergence of quasi-Newton methods under metric regularity", *Computational Optimization And Applications*, 58 - (1) - 225-247, [10.1007/s10589-013-9615-y](https://doi.org/10.1007/s10589-013-9615-y)
- María Lorena Cordero-Maldonado**, Dany Siverio-Mota, Liliانا Vicet-Muro, Isabel María Wilches-Arizábal, Camila V. Esguerra, Peter A M de Witte, **Alexander D. Crawford**. "Optimization and Pharmacological Validation of a Leukocyte Migration Assay in Zebrafish Larvae for the Rapid In Vivo Bioactivity Analysis of Anti-Inflammatory Secondary Metabolites", *Plos One*, 8 - (10) - e75404, [10.1371/journal.pone.0075404](https://doi.org/10.1371/journal.pone.0075404)
- Isaac Crespo**, **Antonio Del Sol**. "A general strategy for cellular reprogramming: the importance of transcription factor cross-repression.", *Stem Cells*, 31 - (10) - 2127-35, [10.1002/stem.1473](https://doi.org/10.1002/stem.1473)
- Kiran K. Bali, Varun Venkataramani, **Venkata P. Satagopam**, Pooja Gupta, **Reinhard Schneider**, Rohini Kuner. "Transcriptional mechanisms underlying sensitization of peripheral sensory neurons by Granulocyte-/Granulocyte-macrophage colony stimulating factors", *Molecular Pain*, 9 - (1) - 48, [10.1186/1744-8069-9-48](https://doi.org/10.1186/1744-8069-9-48)
- Lamia'A Bahnassawy**, **Sarah Nicklas**, Thomas Palm, Ingeborg Menzl, Fabian Birzele, Frank Gillardon, **Jens C. Schwamborn**. "The Parkinson's disease-associated LRRK2 mutation R1441G inhibits neuronal differentiation of neural stem cells", *Stem Cells And Development*, 22 - (18) - 2487-2496, [10.1089/scd.2013.0163](https://doi.org/10.1089/scd.2013.0163)
- Adlton Etheridge, Clarissa P C Gomes, Rinaldo W. Pereira, **David Galas**, Kai Wang. "The complexity, function, and applications of RNA in circulation", *Frontiers In Genetics*, 4 - (JUN) - [10.3389/fgene.2013.00115](https://doi.org/10.3389/fgene.2013.00115)
- Thanneer Malai Perumal**, Sashikant Madgula Krishna, Sai Sandeep Tallam, Rudiyanto Gunawan. "Reduction of kinetic models using dynamic sensitivities", *Computers & Chemical Engineering*, 56 - 37-45, [10.1016/j.compchemeng.2013.05.003](https://doi.org/10.1016/j.compchemeng.2013.05.003)
- Kieran Smallbone, Hanan L. Messiha, Kathleen M. Carroll, Catherine L. Winder, Naglis Malys, Warwick B. Dunn, Ettore Murabito, Neil Swainston, Joseph O. Dada, Farid Khan, Pinar Pir, **Evangelos Simeonidis**, Irena Spasić, Jill Wishart, Dieter Weichart, Neil W. Hayes, Daniel Jameson, David S. Broomhead, Stephen G. Oliver, Simon J. Gaskell, John E G McCarthy, Norman W. Paton, Hans V. Westerhoff, Douglas B. Kell, Pedro Mendes. "A model of yeast glycolysis based on a consistent kinetic characterisation of all its enzymes", *Febs Letters*, 587 - (17) - 2832-2841, [10.1016/j.febslet.2013.06.043](https://doi.org/10.1016/j.febslet.2013.06.043)
- Nico J Diederich**, Olivier Rufra, Vannina Pieri, Geraldine Hipp, Michel Vaillant. "Lack of polysomnographic Non-REM sleep changes in early Parkinson's disease.", *Movement Disorders*, 28 - (10) - 1443-1446, [10.1002/mds.25520](https://doi.org/10.1002/mds.25520)
- Maik M A Worlitzer, Thomas Viel, Andreas H. Jacobs, **Jens C. Schwamborn**. "The majority of newly generated cells in the adult mouse substantia nigra express low levels of Doublecortin, but their proliferation is unaffected by 6-OHDA-induced nigral lesion or Minocycline-mediated inhibition of neuroinflammation", *European Journal Of Neuroscience*, 38 - (5) - 2684-2692, [10.1111/ejn.12269](https://doi.org/10.1111/ejn.12269)
- Maria Secrier, **Reinhard Schneider**. "PhenoTimer: Software for the Visual Mapping of Time-Resolved Phenotypic Landscapes", *Plos One*, 8 - (8) - [10.1371/journal.pone.0072361](https://doi.org/10.1371/journal.pone.0072361)
- Georgios A. Pavlopoulos, Anastasis Oulas, Ernesto Iacucci, Alejandro Sifrim, Yves Moreau, **Reinhard Schneider**, Jan Aerts, Ioannis Iliopoulos. "Unraveling genomic variation from next generation sequencing data", *Biodata Mining*, 6 - (1) - 13, [10.1186/1756-0381-6-13](https://doi.org/10.1186/1756-0381-6-13)
- Rafael C. Jimenez, Juan P. Albar, Jong Bhak, Marie Claude Blatter, Thomas Blicher, Michelle D. Brazas, Cath Brooksbank, Aidan Budd, Javier De Las Rivas, Jacqueline Dreyer, Marc A. Van Driel, Michael J. Dunn, Pedro L. Fernandes, Celia W G Van Gelder, Henning Hermjakob, Vassilios Ioannidis, David P. Judge, Pascal Kahlem, Eija Korpelainen, Hans Joachim Kraus, Jane Loveland, Christine Mayer, Jennifer McDowall, Federico Moran, Nicola Mulder, Tommi Nyronen, Kristian Rother, Gustavo A. Salazar, **Reinhard Schneider**, Allegra Via, Jose M. Villaveces, Ping Yu, Maria V. Schneider, Teresa K. Attwood, Manuel Corpas. "IAnn: An event sharing platform for the life sciences", *Bioinformatics*, 29 - (15) - 1919-1921, [10.1093/bioinformatics/btt306](https://doi.org/10.1093/bioinformatics/btt306)
- Patrick May**, Will Liao, Yijin Wu, Bin Shuai, W Richard McCombie, Michael Q Zhang, Qiong A Liu. "The effects of carbon dioxide and temperature on microRNA expression in Arabidopsis development.", *Nature Communications*, 4 - 2145, [10.1038/ncomms3145](https://doi.org/10.1038/ncomms3145)
- Yuekai Sun, **Ronan M T Fleming**, **Ines Thiele**, Michael A. Saunders. "Robust flux balance analysis of multiscale biochemical reaction networks", *Bmc Bioinformatics*, 14 - (1) - [10.1186/1471-2105-14-240](https://doi.org/10.1186/1471-2105-14-240)
- Zhihao Tan, Michelle Hays, Gareth A. Cromie, Eric W. Jeffery, Adrian C. Scott, Vida Ahyong, Amy Sirr, **Alexander Skupin**, Aimée M. Dudley. "Aneuploidy underlies a multicellular phenotypic switch", *Proceedings Of The National Academy Of Sciences Of The United States Of America*, 110 - (30) - 12367-12372, [10.1073/pnas.1301047110](https://doi.org/10.1073/pnas.1301047110)
- Koji Atarashi, Takeshi Tanoue, Kenshiro Oshima, Wataru Suda, Yuji Nagano, Hiroyoshi Nishikawa, Shinji Fukuda, Takuro Saito, Seiko Narushima, Koji Hase, Sangwan Kim, **Joëlle V. Fritz**, **Paul Wilmes**, Satoshi Ueha, Kouji Matsushima, Hiroshi Ohno, Bernat Olle, Shimon Sakaguchi, Tadatsugu Taniguchi, Hidetoshi Morita, Masahira Hattori, Kenya Honda. "Treg induction by a rationally selected mixture of Clostridia strains from the human microbiota", *Nature*, 500 - (7461) - 232-236, [10.1038/nature12331](https://doi.org/10.1038/nature12331)
- Panuwat Trairatphisan, Andrzej Mizera, Jun Pang, Alexandru Adrian Tantar, **Jochen Schneider**, Thomas Sauter. "Recent development and biomedical applications of probabilistic Boolean networks", *Cell Communication And Signaling*, 11 - (1) - [10.1186/1478-811X-11-46](https://doi.org/10.1186/1478-811X-11-46)

- **L. Gonzalez-Cano, A. L. Hillje**, S. Fuertes-Alvarez, M. M. Marques, A. Blanch, R. W. Ian, M. S. Irwin, **J. C. Schwamborn**, M. C. Marín. "Regulatory feedback loop between TP73 and TRIM32", *Cell Death & Disease*, 4 - (7) - e704-, [10.1038/cddis.2013.224](https://doi.org/10.1038/cddis.2013.224)
- Catherine L. Ludlow, Adrian C. Scott, Gareth A. Cromie, Eric W. Jeffery, Amy Sirt, **Patrick May, Jake Lin**, Teresa L. Gilbert, Michelle Hays, Aimée M. Dudley. "High-throughput tetrad analysis", *Nature Methods*, 10 - (7) - 671-675, [10.1038/nmeth.2479](https://doi.org/10.1038/nmeth.2479)
- **Emilie E L Muller, Enrico Glaab, Patrick May, Nikos Vlassis, Paul Wilmes**. "Condensing the omics fog of microbial communities.", *Trends In Microbiology*, 21 - (7) - 325-33, [10.1016/j.tim.2013.04.009](https://doi.org/10.1016/j.tim.2013.04.009)
- Barton R. Brandon, **Nico J. Diederich**, Madhu Soni, Katrin Witte, Manja Weinhold, Micaela Krause, Sandra Jackson. "Autosomal dominant mutations in POLG and C10orf2: Association with late onset chronic progressive external ophthalmoplegia and Parkinsonism in two patients", *Journal Of Neurology*, 260 - (7) - 1931-1933, [10.1007/s00415-013-6975-2](https://doi.org/10.1007/s00415-013-6975-2)
- Elad Noor, Hulda S. Haraldsdóttir, Ron Milo, **Ronan M T Fleming**. "Consistent Estimation of Gibbs Energy Using Component Contributions", *Plos Computational Biology*, 9 - (7) - [10.1371/journal.pcbi.1003098](https://doi.org/10.1371/journal.pcbi.1003098)
- Miranda D. Stobbe, Morris A. Swertz, **Ines Thiele**, Trebor Rengaw, Antoine H C van Kampen, Perry D. Moerland. "Consensus and conflict cards for metabolic pathway databases", *Bmc Systems Biology*, 7 - [10.1186/1752-0509-7-50](https://doi.org/10.1186/1752-0509-7-50)
- Eugene Kolker. "Reproducibility: In praise of open research measures", *Nature*, 498 - (7453) - 170, [10.1038/498170b](https://doi.org/10.1038/498170b)
- **Johannes Meiser, Daniel Weindl, Karsten Hiller**. "Complexity of dopamine metabolism.", *Cell Communication And Signaling*, 11 - (1) - 34, [10.1186/1478-811X-11-34](https://doi.org/10.1186/1478-811X-11-34)
- **Alessandro Michelucci, Thekla Cordes, Jenny Ghelfi, Arnaud Pailot**, Norbert Reiling, Oliver Goldmann, **Tina Binz, Andre Wegner, Aravind Tallam, Antonio Rausell, Manuel Buttini, Carole L Linster**, Eva Medina, **Rudi Balling, Karsten Hiller**. "Immune-responsive gene 1 protein links metabolism to immunity by catalyzing itaconic acid production.", *Proceedings Of The National Academy Of Sciences Of The United States Of America*, 110 - (19) - 7820-5, [10.1073/pnas.1218599110](https://doi.org/10.1073/pnas.1218599110)
- **Joelle V Fritz, Mahesh S Desai, Pranjul Shah, Jochen G Schneider, Paul Wilmes**. "From meta-omics to causality: experimental models for human microbiome research.", *Microbiome*, 1 - (1) - 14, [10.1186/2049-2618-1-14](https://doi.org/10.1186/2049-2618-1-14)
- Ines Thiele, Neil Swainston, Ronan M T Fleming, Andreas Hoppe, Swagatika Sahoo, Maike K. Aurich, Hulda Haraldsdottir, Monica L. Mo, Ottar Rolfsson, Miranda D. Stobbe, Stefan G. Thorleifsson, Rasmus Agren, Christian Bölling, Sergio Bordel, Arvind K. Chavali, Paul Dobson, Warwick B. Dunn, Lukas Endler, David Hala, Michael Hucka, Duncan Hull, Daniel Jameson, Neema Jamshidi, Jon J. Jonsson, Nick Juty, Sarah Keating, Intawat Nookaew, Nicolas Le Novère, Naglis Malys, Alexander Mazein, Jason A. Papin, Nathan D. Price, Evgeni Selkov, Martin I. Sigurdsson, **Evangelos Simeonidis**, Nikolaus Sonnenschein, Kieran Smallbone, Anatoly Sorokin, Johannes H G M Van Beek, Dieter Weichart, Igor Goryanin, Jens Nielsen, Hans V. Westerhoff, Douglas B. Kell, Pedro Mendes, Bernhard O. Palsson. "A community-driven global reconstruction of human metabolism", *Nature Biotechnology*, 31 - (5) - 419-425, [10.1038/nbt.2488](https://doi.org/10.1038/nbt.2488)
- Emile Van Schaftingen, Rim Rzem, Alexandre Marbaix, François Collard, Maria Veiga-Da-Cunha, **Carole L. Linster**. "Metabolite proofreading, a neglected aspect of intermediary metabolism", *Journal Of Inherited Metabolic Disease*, 36 - (3) - 427-434, [10.1007/s10545-012-9571-1](https://doi.org/10.1007/s10545-012-9571-1)
- **Karsten Hiller, Andre Wegner, Daniel Weindl, Thekla Cordes**, Christian M Metallo, Joanne K Kelleher, Gregory Stephanopoulos. "NTFD--a stand-alone application for the non-targeted detection of stable isotope-labeled compounds in GC/MS data.", *Bioinformatics*, 29 - (9) - 1226-8, [10.1093/bioinformatics/btt119](https://doi.org/10.1093/bioinformatics/btt119)
- **Alexey Kolodkin**, Nilgun Sahin, Anna Phillips, Steve R Hood, Frank J Bruggeman, Hans V Westerhoff, Nick Plant. "Optimization of stress response through the nuclear receptor-mediated cortisol signalling network.", *Nature Communications*, 4 - 1792, [10.1038/ncomms2799](https://doi.org/10.1038/ncomms2799)
- Jacek Blazewicz, Wojciech Frohberg, **Piotr Gawron**, Marta Kasprzak, Michal Kierzykam, Aleksandra Swiercz, Pawel Wojciechowski. "DNA sequence assembly involving an acyclic graph model", *Foundations Of Computing And Decision Sciences*, 38 - (1) - 25-34, [10.2478/v10209-011-0019-4](https://doi.org/10.2478/v10209-011-0019-4)
- Anneke Haitjema, Bernd W. Brandt, Najim Ameziane, **Patrick May**, Jaap Heringa, Johan P. de Winter, Hans Joenje, Josephine C. Dorsman. "A Protein Prioritization Approach Tailored for the FA/BRCA Pathway", *Plos One*, 8 - (4) - [10.1371/journal.pone.0062017](https://doi.org/10.1371/journal.pone.0062017)
- **Andre Wegner, Sean C Sapcaru, Daniel Weindl, Karsten Hiller**. "Isotope cluster-based compound matching in gas chromatography/mass spectrometry for non-targeted metabolomics.", *Analytical Chemistry*, 85 - (8) - 4030-7, [10.1021/ac303774z](https://doi.org/10.1021/ac303774z)
- Maria Secrier, **Reinhard Schneider**. "Visualizing time-related data in biology", *Briefings In Bioinformatics*, 15 - (5) - 771-782, [10.1093/bib/bbt021](https://doi.org/10.1093/bib/bbt021)
- **Paul Michel Aloyse Antony, Christophe Trefois**, Aleksandar Stojanovic, **Aidos Sagatovich Baumuratov**, Karol Kozak. "Light microscopy applications in systems biology: opportunities and challenges.", *Cell Communication And Signaling*, 11 - (1) - 24, [10.1186/1478-811X-11-24](https://doi.org/10.1186/1478-811X-11-24)
- **Merja Heinäniemi, Matti Nykter, Roger Kramer, Anke Wienecke-Baldacchino, Lasse Sinkkonen, Joseph Xu Zhou, Richard Kreisberg, Stuart A. Kauffman, Sui Huang, Ilya Shmulevich**. "Gene-pair expression signatures reveal lineage control", *Nature Methods*, 10 - (6) - 577-583, [10.1038/nmeth.2445](https://doi.org/10.1038/nmeth.2445)
- Kai Wang, Yue Yuan, Hong Li, Ji Hoon Cho, David Huang, Li Gray, Shizhen Qin, **David J. Galas**. "The spectrum of circulating RNA: A window into systems toxicology", *Toxicological Sciences*, 132 - (2) - 478-492, [10.1093/toxsci/kft014](https://doi.org/10.1093/toxsci/kft014)
- **Alexey Kolodkin, Evangelos Simeonidis**, Hans V Westerhoff. "Computing life: Add logos to biology and bios to physics.", *Progress In Biophysics & Molecular Biology*, 111 - (2-3) - 69-74, [10.1016/j.pbiomolbio.2012.10.003](https://doi.org/10.1016/j.pbiomolbio.2012.10.003)
- **Feng He, Rudi Balling**. "The role of regulatory T cells in neurodegenerative diseases.", *Wiley Interdisciplinary Reviews-Systems Biology And Medicine*, 5 - (2) - 153-80, [10.1002/wsbm.1187](https://doi.org/10.1002/wsbm.1187)
- Peter Aasted Paulsen, **Wiktór Jurkowski**, Rossen Apostolov, Erik Lindahl, Poul Nissen, Hanne Poulsen. "The C-terminal cavity of the Na,K-ATPase analyzed by docking and electrophysiology.", *Molecular Membrane Biology*, 30 - (2) - 195-205, [10.3109/09687688.2012.713520](https://doi.org/10.3109/09687688.2012.713520)
- **Wiktór Jurkowski**, Samira Yazdi, Arne Elofsson. "Ligand binding properties of human galanin receptors.", *Molecular Membrane Biology*, 30 - (2) - 206-216, [10.3109/09687688.2012.750384](https://doi.org/10.3109/09687688.2012.750384)
- **Kirsten Roomp**, Jacquie S Rand. "Management of diabetic cats with long-acting insulin.", *Veterinary Clinics Of North America-Small Animal Practice*, 43 - (2) - 251-66, [10.1016/j.cvsm.2012.12.005](https://doi.org/10.1016/j.cvsm.2012.12.005)
- **Carole L Linster**, Emile Van Schaftingen, Andrew D Hanson. "Metabolite damage and its repair or pre-emption.", *Nature Chemical Biology*, 9 - (2) - 72-80, [10.1038/nchembio.1141](https://doi.org/10.1038/nchembio.1141)
- Susann Müller, **Karsten Hiller**. "From multi-omics to basic structures of biological systems", *Current Opinion In Biotechnology*, 24 - (1) - 1-3, [10.1016/j.copbio.2012.12.002](https://doi.org/10.1016/j.copbio.2012.12.002)
- **Karsten Hiller**, Christian M Metallo. "Profiling metabolic networks to study cancer metabolism.", *Current Opinion In Biotechnology*, 24 - (1) - 60-8, [10.1016/j.copbio.2012.11.001](https://doi.org/10.1016/j.copbio.2012.11.001)

- Jeroen de Ridder, Thomas Abeel, Magali Michaut, **Venkata P. Satagopam**, Nils Gehlenborg. "Don't Wear Your New Shoes (Yet): Taking the Right Steps to Become a Successful Principal Investigator", Plos Computational Biology, 9 - (1) - [10.1371/journal.pcbi.1002834](https://doi.org/10.1371/journal.pcbi.1002834)
- Christos Argyropoulos, Kai Wang, Sara McClarty, **David Huang**, Jose Bernardo, Demetrius Ellis, Trevor Orchard, **David Galas**, John Johnson. "Urinary MicroRNA Profiling in the Nephropathy of Type 1 Diabetes", Plos One, 8 - (1) - [10.1371/journal.pone.0054662](https://doi.org/10.1371/journal.pone.0054662)
- Manuela Simonetti, Anna M. Hagenston, Daniel Vardeh, H. Eckehard Freitag, Daniela Mauceri, Jianning Lu, Venkata P. Satagopam, **Reinhard Schneider**, Michael Costigan, Hilmar Bading, Rohini Kuner. "Nuclear Calcium Signaling in Spinal Neurons Drives a Genomic Program Required for Persistent Inflammatory Pain", Neuron, 77 - (1) - 43-57, [10.1016/j.neuron.2012.10.037](https://doi.org/10.1016/j.neuron.2012.10.037)

## 2012

### Book

- **W. Jurkowski**, Z. Baster, D. Duřak, I. Roterman-Konieczna. "The early-stage intermediate", Protein Folding in Silico: Protein Folding Versus Protein Structure Prediction, 1-20, [10.1533/9781908818256.1](https://doi.org/10.1533/9781908818256.1)
- P. Alejster, **W. Jurkowski**, I. Roterman-Konieczna. "Structural information involved in the interpretation of the stepwise protein folding process", Protein Folding in Silico: Protein Folding Versus Protein Structure Prediction, 39-54, [10.1533/9781908818256.39](https://doi.org/10.1533/9781908818256.39)
- **Paul WILMES**. "Genome-based and Functional Differentiation: Hallmarks of Microbial Adaptation, Divergence and Speciation?", Microbial Ecological Theory: Current Perspectives,
- Ina Koch, Annika Kreuchwig, **Patrick May**. "Hierarchical representation of supersecondary structures using a graph-theoretical approach.", Methods in Molecular Biology, 932 - 7-33, [10.1007/978-1-62703-065-6\\_2](https://doi.org/10.1007/978-1-62703-065-6_2)
- **David Galas**, **Tomasz Ignac**, Nikita Sakhanenko, **Alexander Skupin**. "New methods for finding associations in large data sets: Generalizing the maximal information coefficient MIC", 9th International Workshop on Computational Systems Biology (WCSB 2012),
- Theresa Kouril, **Alexey KOLODKIN**, Melanie Zaparty, Ralf Steuer, Peter Ruoff, Hans V. Westerhoff, Jacky Snoep, Bettina Siebers, SulfoSYS consortium. "Sulfolobus Systems Biology: Cool Hot Design for Metabolic Pathways", Systems Biology of Microorganisms,
- **Nikos Vlassis**, Mohammad Ghavamzadeh, Shie Mannor, Pascal Poupart. "Bayesian reinforcement learning", Reinforcement Learning: State-of-the-Art, 12 - 359-386, [10.1007/978-3-642-27645-3\\_11](https://doi.org/10.1007/978-3-642-27645-3_11)

### Book Series

- **Alexander Skupin**, Kevin Thurley. "Calcium signaling: From single channels to pathways", Advances in Experimental Medicine and Biology, Advances In Experimental Medicine And Biology, 740 - 531-51, [10.1007/978-94-007-2888-2\\_24](https://doi.org/10.1007/978-94-007-2888-2_24)

### Conference Proceeding

- Tim Schäfer, **Patrick May**, Ina Koch. "Computation and visualization of protein topology graphs including ligand information", German Conference on Bioinformatics 2012, GCB 2012, 108-118, [10.4230/OASlcs.GCB.2012.108](https://doi.org/10.4230/OASlcs.GCB.2012.108)
- Ibrahima N'Doye, Holger Voos, Mohamed Darouach, **Jochen G. Schneider**, Nicolas Knauf. "Static output feedback stabilization of nonlinear fractional-order glucose-insulin system", 2012 IEEE-EMBS Conference on Biomedical Engineering and Sciences, IECBES 2012, 589-594, [10.1109/IECBES.2012.6498043](https://doi.org/10.1109/IECBES.2012.6498043)
- Ibrahima N'Doye, Holger Voos, Mohamed Darouach, **Jochen G. Schneider**, Nicolas Knauf. "An unknown input fractional-order observer design for fractional-order glucose-insulin system", 2012 IEEE-EMBS Conference on Biomedical Engineering and Sciences, IECBES 2012, 595-600, [10.1109/IECBES.2012.6498048](https://doi.org/10.1109/IECBES.2012.6498048)
- **Nikos Vlassis**, Michael L. Littman, David Barber. "Stochastic POMDP controllers: How easy to optimize?", JMLR: Workshop and Conference Proceedings, (24) -

### Journal

- Vineet Sangar, James A. Eddy, **Evangelos Simeonidis**, Nathan D. Price. "Mechanistic modeling of aberrant energy metabolism in human disease", Frontiers In Physiology, 3 OCT - 404, [10.3389/fphys.2012.00404](https://doi.org/10.3389/fphys.2012.00404)
- Ernesto Iacucci, Léon-Charles Tranchevent, Dusan Popovic, Georgios A Pavlopoulos, Bart De Moor, **Reinhard Schneider**, Yves Moreau. "A bioinformatics e-dating story: computational prediction and prioritization of receptor-ligand pairs.", Bmc Bioinformatics, 13 - (Suppl 18) - A7, [10.1186/1471-2105-13-S18-A7](https://doi.org/10.1186/1471-2105-13-S18-A7)
- **Feng He**, Hairong Chen, Michael Probst-Kepper, Robert Geffers, **Serge Eifes**, **Antonio Del Sol**, Klaus Schughart, An Ping Zeng, **Rudi Balling**. "PLAU inferred from a correlation network is critical for suppressor function of regulatory T cells", Molecular Systems Biology, 8 - 624, [10.1038/msb.2012.56](https://doi.org/10.1038/msb.2012.56)
- Kai Wang, Hong Li, Yue Yuan, Alton Etheridge, Yong Zhou, David Huang, **Paul Wilmes**, **David Galas**. "The Complex Exogenous RNA Spectra in Human Plasma: An Interface with Human Gut Biota?", Plos One, 7 - (12) - [10.1371/journal.pone.0051009](https://doi.org/10.1371/journal.pone.0051009)
- Steven Lewis, Attila Csordas, **Sarah Killcoyne**, Henning Hermjakob, Michael R. Hoopmann, Robert L. Moritz, Eric W. Deutsch, John Boyle. "Hydra: A scalable proteomic search engine which utilizes the Hadoop distributed computing framework", Bmc Bioinformatics, 13 - (1) - [10.1186/1471-2105-13-324](https://doi.org/10.1186/1471-2105-13-324)
- Ichiro Shiojima, Stephan Schiekofer, **Jochen G. Schneider**, Kurt Belisle, Kaori Sato, Martin Andrassy, Gennaro Galasso, Kenneth Walsh. "Short-term Akt activation in cardiac muscle cells improves contractile function in failing hearts", American Journal Of Pathology, 181 - (6) - 1969-1976, [10.1016/j.ajpath.2012.08.020](https://doi.org/10.1016/j.ajpath.2012.08.020)
- **Emilie E L Muller**, **Nicolás Pinel**, John D. Gillece, James M. Schupp, Lance B. Price, David M. Engelthaler, Caterina Levantesi, Valter Tandoi, Khai Luong, Nitin S. Baliga, Jonas Korlach, Paul S. Keim, **Paul Wilmes**. "Genome sequence of "Candidatus Microthrix parvicella" Bio17-1, a long-chain-fatty-acid-accumulating filamentous actinobacterium from a biological wastewater treatment plant", Journal Of Bacteriology, 194 - (23) - 6670-1, [10.1128/JB.01765-12](https://doi.org/10.1128/JB.01765-12)
- Martin Slawski, **Rene Hussong**, Andreas Tholey, Thomas Jakoby, Barbara Gregorius, Andreas Hildebrandt, Matthias Hein. "Isotope pattern deconvolution for peptide mass spectrometry by non-negative least squares/least absolute deviation template matching", Bmc Bioinformatics, 13 - (1) - 291, [10.1186/1471-2105-13-291](https://doi.org/10.1186/1471-2105-13-291)

- **Nikos Vlassis**, Michael L. Littman, David Barber. "On the computational complexity of stochastic controller optimization in POMDPs", *Acm Transactions On Computation Theory*, 4 - (4) - [10.1145/2382559.2382563](https://doi.org/10.1145/2382559.2382563)
- **Isaac Crespo**, **Kirsten Roomp**, **Wiktor Jurkowski**, Hiroaki Kitano, **Antonio del Sol**. "Gene regulatory network analysis supports inflammation as a key neurodegeneration process in prion disease", *Bmc Systems Biology*, 6 - 132, [10.1186/1752-0509-6-132](https://doi.org/10.1186/1752-0509-6-132)
- Burkhard Rost, Terry Gaasterland, Thomas Lengauer, Michal Linial, Scott Markel, B. J. Morrison Mckay, **Reinhard Schneider**, Paul Horton, Janet Kelso. "Paving the future: Finding suitable ismb venues", *Bioinformatics*, 28 - (19) - 2556-2559, [10.1093/bioinformatics/bts420](https://doi.org/10.1093/bioinformatics/bts420)
- **Suresh Kumar Poovathingal**, Jan Gruber, Lakshmi Narayanan Lakshmanan, Barry Halliwell, Rudiyanto Gunawan. "Is mitochondrial DNA turnover slower than commonly assumed?", *Biogerontology*, 13 - (5) - 557-64, [10.1007/s10522-012-9390-7](https://doi.org/10.1007/s10522-012-9390-7)
- Xinming Su, Desiree H. Floyd, Alun Hughes, Jingyu Xiang, **Jochen G. Schneider**, Ozge Uluckan, Emanuela Heller, Hongju Deng, Wei Zou, Clarissa S. Craft, Kaiming Wu, Angela C. Hirbe, Dorota Grabowska, Mark C. Eagleton, Sarah Townsley, Lynne Collins, David Piwnica-Worms, Thomas H. Steinberg, Deborah V. Novack, Pamela B. Conley, Michelle A. Hurchla, Michael Rogers, Katherine N. Weilbaecher. "The ADP receptor P2RY12 regulates osteoclast function and pathologic bone remodeling", *Journal Of Clinical Investigation*, 122 - (10) - 3579-92, [10.1172/JCI38576](https://doi.org/10.1172/JCI38576)
- **Alexey Kolodkin**, **Evangelos Simeonidis**, **Rudi Balling**, Hans V. Westerhoff. "Understanding complexity in neurodegenerative diseases: In silico reconstruction of emergence", *Frontiers In Physiology*, 3 - 291, [10.3389/fphys.2012.00291](https://doi.org/10.3389/fphys.2012.00291)
- **Tomasz M Ignac**, Nikita A Sakhanenko, **David J Galas**. "Relations between the set-complexity and the structure of graphs and their sub-graphs.", *Eurasip Journal On Bioinformatics & Systems Biology*, 2012 - (1) - 13, [10.1186/1687-4153-2012-13](https://doi.org/10.1186/1687-4153-2012-13)
- **Enrico Glaab**, Anaïs Baudot, Natalio Krasnogor, **Reinhard Schneider**, Alfonso Valencia. "EnrichNet: Network-based gene set enrichment analysis", *Bioinformatics*, 28 - (18) - i451-7, [10.1093/bioinformatics/bts389](https://doi.org/10.1093/bioinformatics/bts389)
- Ernesto Iacucci, Léon Charles Tranchevent, Dusan Popovic, Georgios A. Pavlopoulos, Bart De Moor, **Reinhard Schneider**, Yves Moreau. "Reliance: A machine learning and literature-based prioritization of receptor-ligand pairings", *Bioinformatics*, 28 - (18) - i569-74, [10.1093/bioinformatics/bts391](https://doi.org/10.1093/bioinformatics/bts391)
- **Isaac Crespo**, **Abhimanyu Krishna**, Antony Le Behec, **Antonio del Sol**. "Predicting missing expression values in gene regulatory networks using a discrete logic modeling optimization guided by network stable states.", *Nucleic Acids Research*, 41 - (1) - e8, [10.1093/nar/gks785](https://doi.org/10.1093/nar/gks785)
- Curt R. Fischer, **Paul Wilmes**, Benjamin P. Bowen, Trent R. Northen, Jillian F. Banfield. "Deuterium-exchange metabolomics identifies N-methyl lyso phosphatidylethanolamines as abundant lipids in acidophilic mixed microbial communities", *Metabolomics*, 8 - (4) - 566-578, [10.1007/s11306-011-0344-x](https://doi.org/10.1007/s11306-011-0344-x)
- Leroy Hood, **Rudi Balling**, Charles Auffray. "Revolutionizing medicine in the 21st century through systems approaches", *Biotechnology Journal*, 7 - (8) - 992-1001, [10.1002/biot.201100306](https://doi.org/10.1002/biot.201100306)
- **Paul M A Antony**, **Rudi Balling**, **Nikos Vlassis**. "From Systems Biology to Systems Biomedicine", *Current Opinion In Biotechnology*, 23 - (4) - 604-8, [10.1016/j.copbio.2011.11.009](https://doi.org/10.1016/j.copbio.2011.11.009)
- Kevin Thurley, **Alexander Skupin**, Rüdiger Thul, Martin Falcke. "Fundamental properties of Ca<sup>2+</sup> signals", *Biochimica Et Biophysica Acta-General Subjects*, 1820 - (8) - 1185-1194, [10.1016/j.bbagen.2011.10.007](https://doi.org/10.1016/j.bbagen.2011.10.007)
- Kai Wang, Yue Yuan, Ji Hoon Cho, Sara McClarty, David Baxter, **David J. Galas**. "Comparing the MicroRNA spectrum between serum and plasma", *Plos One*, 7 - (7) - [10.1371/journal.pone.0041561](https://doi.org/10.1371/journal.pone.0041561)
- **Alexey Kolodkin**, Fred C. Boogerd, Nick Plant, Frank J. Bruggeman, Valeri Goncharuk, Jeantine Lunshof, Rafael Moreno-Sanchez, Nilgun Yilmaz, Barbara M. Bakker, Jacky L. Snoep, **Rudi Balling**, Hans V. Westerhoff. "Emergence of the silicon human and network targeting drugs", *European Journal Of Pharmaceutical Sciences*, 46 - (4) - 190-197, [10.1016/j.ejps.2011.06.006](https://doi.org/10.1016/j.ejps.2011.06.006)
- **Hugo Roume**, **Emilie E L Muller**, **Thekla Cordes**, Jenny Renaut, **Karsten Hiller**, **Paul Wilmes**. "A biomolecular isolation framework for eco-systems biology.", *Isme Journal*, 7 - (1) - 110-21, [10.1038/ismej.2012.72](https://doi.org/10.1038/ismej.2012.72)
- Vera Wenzel, Daniela Roedel, Diana Gabriel, Leslie B. Gordon, Meenhard Herlyn, **Reinhard Schneider**, Johannes Ring, Karima Djabali. "Naïve adult stem cells from patients with Hutchinson-Gilford progeria syndrome express low levels of progerin in vivo", *Biology Open*, 1 - (6) - 516-526, [10.1242/bio.20121149](https://doi.org/10.1242/bio.20121149)
- **Jochen SCHNEIDER**, Kurt Belisle, Martin Andrassy, Stephan Schiekhofer. "Adiponectin Fails in Improving Angiogenic Repair in Streptozocin-Treated or Leprdb/db Mice after Hind Limb Ischemia", *Vascular Medicine*, [doi:10.5402/2012/769092](https://doi.org/10.5402/2012/769092)
- Ioannis Michalopoulos, Georgios A. Pavlopoulos, Apostolos Malatras, Alexandros Karelis, Myrto Areti Kostadima, **Reinhard Schneider**, Sophia Kossida. "Human gene correlation analysis (HGCA): A tool for the identification of transcriptionally co-expressed genes", *Bmc Research Notes*, 5 - 265, [10.1186/1756-0500-5-265](https://doi.org/10.1186/1756-0500-5-265)
- Dorota Kwasny, Indumathi Vedarethinam, **Pranjul Shah**, Maria Dimaki, Asli Silahatoglu, Zeynep Tumer, Winnie Edith Svendsen. "Advanced microtechnologies for detection of chromosome abnormalities by fluorescent in situ hybridization", *Biomedical Microdevices*, 14 - (3) - 453-460, [10.1007/s10544-011-9622-7](https://doi.org/10.1007/s10544-011-9622-7)
- **Kirsten Roomp**, Jacquie Rand. "Evaluation of detemir in diabetic cats managed with a protocol for intensive blood glucose control", *Journal Of Feline Medicine And Surgery*, 14 - (8) - 566-72, [10.1177/1098612X12446211](https://doi.org/10.1177/1098612X12446211)
- **Marek Ostaszewski**, **Serge Eifes**, **Antonio del Sol**. "Evolutionary conservation and network structure characterize genes of phenotypic relevance for mitosis in human", *Plos One*, 7 - (5) - e36488, [10.1371/journal.pone.0036488](https://doi.org/10.1371/journal.pone.0036488)
- **Tomasz M. Ignac**, Nikita A. Sakhanenko, **David J. Galas**. "Complexity of networks II: The set complexity of edge-colored graphs", *Complexity*, 17 - (5) - 23-36, [10.1002/cplx.21383](https://doi.org/10.1002/cplx.21383)
- Michèle Moes, Antony Le Béhec, **Isaac Crespo**, Christina Laurini, Aliaksandr Halavaty, Guillaume Vetter, **Antonio Del Soll**, Evelyne Friederich. "A novel network integrating a mirna-203/snai1 feedback loop which regulates epithelial to mesenchymal transition", *Plos One*, 7 - (4) - [10.1371/journal.pone.0035440](https://doi.org/10.1371/journal.pone.0035440)
- Maria Secrier, Georgios A. Pavlopoulos, Jan Aerts, **Reinhard Schneider**. "Arena3D: Visualizing time-driven phenotypic differences in biological systems", *Bmc Bioinformatics*, 13 - (1) - 45, [10.1186/1471-2105-13-45](https://doi.org/10.1186/1471-2105-13-45)
- **Nico J. Diederich**, André Parent. "Parkinson's disease: Acquired frailty of archaic neural networks?", *Journal Of The Neurological Sciences*, 314 - (1-2) - 143-151, [10.1016/j.jns.2011.10.003](https://doi.org/10.1016/j.jns.2011.10.003)
- **Nico J. Diederich**, **Deborah J. McIntyre**. "Sleep disorders in Parkinson's disease: Many causes, few therapeutic options", *Journal Of The Neurological Sciences*, 314 - (1-2) - 12-19, [10.1016/j.jns.2011.10.025](https://doi.org/10.1016/j.jns.2011.10.025)
- Francisco J. Azuaje, Michaël Heymann, Anne Marie Ternes, Anke Wienecke-Baldacchino, Daniel Struck, Danièle Moes, **Reinhard Schneider**. "Bioinformatics as a driver, not a passenger, of translational biomedical research: Perspectives from the 6th Benelux bioinformatics conference", *Journal Of Clinical Bioinformatics*, 2 - (1) - 7, [10.1186/2043-9113-2-7](https://doi.org/10.1186/2043-9113-2-7)



- Leslie Y. Chen, Kuo Chen Wei, Abner C Y Huang, Kai Wang, Chiung Yin Huang, Danielle Yi, Chuan Yi Tang, **David J. Galas**, **Leroy E. Hood**. "RNASEQR-a streamlined and accurate RNA-seq sequence analysis program", *Nucleic Acids Research*, 40 - (6) - [10.1093/nar/gkr1248](https://doi.org/10.1093/nar/gkr1248)
- Nikita A. Sakhanenko, **David J. Galas**. "Probabilistic logic methods and some applications to biology and medicine", *Journal Of Computational Biology*, 19 - (3) - 316-336, [10.1089/cmb.2011.0234](https://doi.org/10.1089/cmb.2011.0234)
- Emanuela Heller, Michelle A. Hurchla, Jingyu Xiang, Xinming Su, Sara Chen, **Jochen Schneider**, Kyu Sang Joeng, Marcos Vidal, Leah Goldberg, Hongju Deng, Mary C. Hornick, Julie L. Prior, David Piwnica-Worms, Fanxin Long, Ross Cagan, Katherine N. Weilbaecher. "Hedgehog signaling inhibition blocks growth of resistant tumors through effects on tumor microenvironment", *Cancer Research*, 72 - (4) - 897-907, [10.1158/0008-5472.CAN-11-2681](https://doi.org/10.1158/0008-5472.CAN-11-2681)
- Theodoros G. Soldatos, Seán I. O'Donoghue, Venkata P. Satagopam, Adriano Barbosa-Silva, Georgios A. Pavlopoulos, Ana Carolina Wanderley-Nogueira, Nina Mota Soares-Cavalcanti, **Reinhard Schneider**. "Caipirini: Using gene sets to rank literature", *Biodata Mining*, 5 - (1) - [10.1186/1756-0381-5-1](https://doi.org/10.1186/1756-0381-5-1)
- **André Wegner**, **Thekla Cordes**, **Alessandro Michelucci**, **Karsten Hiller**. "The application of stable isotope assisted metabolomics in biomedicine", *Current Biotechnology*, [10.2174/2211550111201010088](https://doi.org/10.2174/2211550111201010088)
- **Enrico Glaab**, **Reinhard Schneider**. "Pathvar: Analysis of gene and protein expression variance in cellular pathways using microarray data", *Bioinformatics*, 28 - (3) - 446-7, [10.1093/bioinformatics/btr656](https://doi.org/10.1093/bioinformatics/btr656)

## 2011

### Journal

- Charalampos N. Moschopoulos, Georgios A. Pavlopoulos, Ernesto Iacucci, Jan Aerts, Spiridon Likothanassis, **Reinhard Schneider**, Sophia Kossida. "Which clustering algorithm is better for predicting protein complexes?", *Bmc Research Notes*, 4 - 549, [10.1186/1756-0500-4-549](https://doi.org/10.1186/1756-0500-4-549)
- Dorina Lenz, **Patrick May**, Dirk Walther. "Comparative analysis of miRNAs and their targets across four plant species", *Bmc Research Notes*, 4 - [10.1186/1756-0500-4-483](https://doi.org/10.1186/1756-0500-4-483)
- Önder Kartal, Sebastian Mahlow, **Alexander Skupin**, Oliver Ebenhö. "Carbohydrate-active enzymes exemplify entropic principles in metabolism", *Molecular Systems Biology*, 7 - [10.1038/msb.2011.76](https://doi.org/10.1038/msb.2011.76)
- Georgios A. Pavlopoulos, Sean D. Hooper, Alejandro Sifrim, **Reinhard Schneider**, Jan Aerts. "Medusa: A tool for exploring and clustering biological networks", *Bmc Research Notes*, 4 - 384, [10.1186/1756-0500-4-384](https://doi.org/10.1186/1756-0500-4-384)
- Jared C. Roach, Gustavo Glusman, Robert Hubley, Stephen Z. Montsaroff, Alisha K. Holloway, Denise E. Mauldin, Deepak Srivastava, Vidu Garg, Katherine S. Pollard, **David J. Galas**, **Leroy Hood**, Arian F A Smit. "Chromosomal haplotypes by genetic phasing of human families", *American Journal Of Human Genetics*, 89 - (3) - 382-397, [10.1016/j.ajhg.2011.07.023](https://doi.org/10.1016/j.ajhg.2011.07.023)
- **W. Jurkowski**, **K. Roomp**, **I. Crespo**, **J. G. Schneider**, **A. Del Sol**. "PPAR $\gamma$  population shift produces disease-related changes in molecular networks associated with metabolic syndrome", *Cell Death & Disease*, 2 - (8) - e192-, [10.1038/cddis.2011.74](https://doi.org/10.1038/cddis.2011.74)
- **Paul M A Antony**, **Nico J. Diederich**, **Rudi Balling**. "Parkinson's disease mouse models in translational research", *Mammalian Genome*, 22 - (7) - 401-19, [10.1007/s00335-011-9330-x](https://doi.org/10.1007/s00335-011-9330-x)
- Jean Bousquet, Josep M. Anto, Peter J. Sterk, Ian M. Adcock, Kian F. Chung, Josep Roca, Alvar Agustí, Chris Brightling, Anne Cambon-Thomsen, Alfredo Cesario, Sonia Abdelhak, Stylianos E. Antonarakis, Antoine Avignon, Andrea Ballabio, Eugenio Baraldi, Alexander Baranov, Thomas Bieber, Joël Bockaert, Samir Brahmachari, Christian Brambilla, Jacques Bringer, Michel Dautzat, Ingemar Ernberg, Leonardo Fabbri, Philippe Froguel, David Galas, Takashi Gojobori, Peter Hunter, Christian Jorgensen, Francine Kauffmann, Philippe Kourilsky, Marek L. Kowalski, Doron Lancet, Claude L. Pen, Jacques Mallet, Bongani Mayosi, Jacques Mercier, Andres Metspalu, Joseph H. Nadeau, Grégory Ninot, Denis Noble, Mehmet Öztürk, Susanna Palkonen, Christian Préfaut, Klaus Rabe, Eric Renard, Richard G. Roberts, Boleslav Samolinski, Holger J. Schünemann, Hans Uwe Simon, Marcelo B. Soares, Giulio Superti-Furga, Jesper Tegner, Sergio Verjovski-Almeida, Peter Wellstead, Olaf Wolkenhauer, Emiel Wouters, **Rudi Balling**, Anthony J. Brookes, Dominique Charron, Christophe Pison, Zhu Chen, Leroy Hood, Charles Auffray. "Systems medicine and integrated care to combat chronic noncommunicable diseases", *Genome Medicine*, 3 - (7) - [10.1186/gm259](https://doi.org/10.1186/gm259)
- Jan Pieter Abrahams, Rolf Apweiler, **Rudi Balling**, Michela G. Bertero, Janusz M. Bujnicki, Naomi E. Chayen, Patrick Chène, Gary L. Corthals, Tomasz Dylag, Friedrich Förster, Albert J R Heck, Peter J F Henderson, Ralf Herwig, Philippe Jehenson, Sasa Jenko Kokalj, Ernest Laue, Pierre Legrain, Lennart Martens, Cristiano Migliorini, Andrea Musacchio, Marjetka Podobnik, Gebhard F X Schertler, Gideon Schreiber, Titia K. Sixma, August B. Smit, David Stuart, Dmitri I. Svergun, Michael J. Taussig. "'4D Biology for health and disease" workshop report", *New Biotechnology*, 28 - (4) - 291-293, [10.1016/j.nbt.2010.10.003](https://doi.org/10.1016/j.nbt.2010.10.003)
- Georgios A. Pavlopoulos, Maria Secrier, Charalampos N. Moschopoulos, Theodoros G. Soldatos, Sophia Kossida, Jan Aerts, **Reinhard Schneider**, Pantelis G. Bagos. "Using graph theory to analyze biological networks", *Biodata Mining*, 4 - (1) - 10, [10.1186/1756-0381-4-10](https://doi.org/10.1186/1756-0381-4-10)
- Etienne Moussay, Kai Wang, Ji Hoon Cho, Kris Van Moer, Sandrine Pierson, Jérôme Paggetti, Petr V. Nazarov, Valérie Palissot, **Leroy E. Hood**, Guy Berchem, **David J. Galas**. "MicroRNA as biomarkers and regulators in B-cell chronic lymphocytic leukemia", *Proceedings Of The National Academy Of Sciences Of The United States Of America*, 108 - (16) - 6573-6578, [10.1073/pnas.1019557108](https://doi.org/10.1073/pnas.1019557108)

## 2010

### Journal

- Zoran Nikoloski, **Patrick May**, Joachim Selbig. "Algebraic connectivity may explain the evolution of gene regulatory networks", *Journal Of Theoretical Biology*, 267 - (1) - 7-14, [10.1016/j.jtbi.2010.07.028](https://doi.org/10.1016/j.jtbi.2010.07.028)
- M. Probst-Kepper, **R. Balling**, J. Buer. "FOXp3: Required but not sufficient. the role of GARP (LRRC32) as a safeguard of the regulatory phenotype", *Current Molecular Medicine*, 10 - (6) - 533-539, [10.2174/1566524011009060533](https://doi.org/10.2174/1566524011009060533)
- **Jochen G. Schneider**, Sarah R. Amend, Katherine N. Weilbaecher. "Integrins and bone metastasis: Integrating tumor cell and stromal cell interactions", *Bone*, 48 - (1) - 54-65, [10.1016/j.bone.2010.09.016](https://doi.org/10.1016/j.bone.2010.09.016)
- Klaus Schughart, **SysGenet Consortium**. "SYSGENET: A meeting report from a new European network for systems genetics", *Mammalian Genome*, 21 - (7-8) - 331-336, [10.1007/s00335-010-9273-7](https://doi.org/10.1007/s00335-010-9273-7)

- **Antonio del Sol, Rudi Balling**, Lee Hood, David Galas. "Diseases as network perturbations.", Current Opinion In Biotechnology, 21 - (4) - 566-71, [10.1016/j.copbio.2010.07.010](https://doi.org/10.1016/j.copbio.2010.07.010)
- Damian Smedley, Paul Schofield, Chao-Kung Chen, Vassilis Aidinis, Chrysanthi Ainali, Jonathan Bard, **Rudi Balling**, Ewan Birney, Andrew Blake, Erik Bongcam-Rudloff, Anthony J Brookes, Gianni Cesareni, Christina Chandras, Janan Eppig, Paul Flicek, Georgios Gkoutos, Simon Greenaway, Michael Gruenberger, Jean-Karim Heriche, Andrew Lyall, Ann-Marie Mallon, Dawn Muddyman, Florian Reisinger, Martin Ringwald, Nadia Rosenthal, Klaus Schughart, Morris Swertz, Gudmundur A Thorisson, Michael Zouberakis, John M Hancock. "Finding and sharing: new approaches to registries of databases and services for the biomedical sciences.", Database-The Journal Of Biological Databases And Curation, 2010 - baq014, [10.1093/database/baq014](https://doi.org/10.1093/database/baq014)