

Poster Presentations – List of Authors

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Evolutionarily conserved essential role for Chchd4 in regulating mitochondrial respiratory chain function in zebrafish.
- 2. Vincent Anton¹**, Ramona Schuster¹, Ira Bunttenbroich¹, Tânia Simões¹, Selver Altin¹, Felix Babatz¹, Fabian den Brave¹, Thomas Hermanns¹, Manuela Hospenthal¹, Gaetano Calabrese¹, Jan Riemer¹, David Komander¹, Gunnar Dittmar¹, Astrid Schauss¹, Jürgen Dohmen¹, Mafalda Escobar -Henriques¹
¹CECAD Research Center, Institute for Genetics, University of Cologne, Cologne, Germany
Conformational changes of mitofusin allow mitochondrial fusion dependent on a trilateral salt-bridge and conserved ubiquitylation.
- 3. Sarah Bachmann^{1,2}**, Bell M.^{1,2}, Zempel H.^{1,2}
¹Center for Molecular Medicine Cologne, Germany, ²Institute of Human Genetics, University Hospital Cologne, Germany
Differential contribution of Tau isoforms to neuronal plasticity in health and disease.
- 4. Michael Bell¹**, Bachmann, S.¹, Ruthe A.¹, Zempel H.¹
¹Institute for Human Genetics, University Hospital of Cologne, Cologne, Germany
Establishment of neuronal model systems for POLG-related disorders.
- 5. Nina Bonekamp¹**, Min Jiang¹, Elisa Motori¹, Chan Bae Park¹, Nils-Göran Larsson¹
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Levels of TFAM expression affect mitochondrial function in vivo.
- 6. Tiago Alexandre Branco Fonseca¹**, Branco FT¹, Scorrano L^{1,2}
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Unravelling the roles of Fission Protein 1: a forgotten mitochondrial fission factor with pleiotropic functions.
- 7. Ira Bunttenbroich¹**, Vincent Anton¹, Mafalda Escobar-Henriques¹
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Role of cysteine residues in the mitofusin Fzo1 for mitochondrial fusion.
- 8. Kai U. Fiedler¹**, Shotaro Saita¹, Hans-Georg Sprenger¹, Hendrik Nolte¹, Takashi Tatsuta¹, Thomas Langer¹
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Deciphering the role of the AAA+ protein CLPB for mitochondrial proteostasis.
- 9. Alessia Geremia¹**, Martina Baraldo¹, Leonardo Nogara¹, Clara Turk², Simona Boncompagni³, Marcus Kruger², Bert Blaauw¹
¹VIMM Veneto Institute of Molecular Medicine, Padova, Italy, ² University of Cologne, Cologne, Germany
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Role of mTOR in muscle homeostasis and cancer cachexia.

10. **Marc Herb**¹, Alexander Gluschko¹, Katja Wiegmann¹, Alina Farid¹, Anne Wolf¹, Olaf Utermöhlen¹, Oleg Krut¹, Martin Krönke¹, Michael Schramm¹

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Mitochondria-derived reactive oxygen species license proinflammatory signaling in infected macrophages via disulfide linkage of NEMO.

11. **Matthijs Hermeling**^{1,2}, Aleksandra Trifunovic^{1,2}

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Redox signaling in the regulation of KLF-1 activity and downstream targets.

12. **Eduard Hofsetz**^{1,2}, Aleksandra Trifunovic^{1,2}

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Succinate dehydrogenase (SDH) function in energy demanding tissues.

13. **Mariana Joaquim**^{1,2}, Selver Altin¹, Mafalda Escobar-Henriques¹

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More than mitochondrial fusion: Role of Mitofusin 2 in cellular stress response.

14. **Gurleen Kaur Khandpur**^{1,4}, Martin Van der Laan², Nicolas Touret³, Bruce Morgan¹

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Changes in amino acid availability severely impacts upon yeast cell growth.

15. **Sammy Kimoloi**¹, Rudolf J. Wiesner¹

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Mitochondrial DNA maintenance defects in skeletal muscle stem cells impairs regeneration.

16. **Lukasz Kowalski**¹, Tomasz Sitarz¹, Agnieszka Chacinska¹, Piotr Bragoszewski¹

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Cellular response to mitochondrial import failure.

17. **Thomas MacVicar**¹, Yohsuke Ohba¹, Hendrik Nolte¹, Fiona Mayer¹, Takashi Tatsuta¹, Hans-Georg Sprenger¹, Barbara Lindner¹, Yue Zhao¹, Jiahui Li¹, Christiane Bruns¹, Marcus Krüger¹, Nicola Zamboni¹, Thomas Langer¹

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mTORC1 dependent lipid signalling drives acute proteolytic rewiring of mitochondria.

18. **Bimala Malla**¹, Anja Hauser¹, Raluca Niesner¹, Carmen Infante-Duarte¹

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Gender effects on neuronal mitochondrial dynamics during oxidative stress.

19. **Elena Marchesan**¹, Elena Ziviani¹

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Calcineurin regulates Parkin-translocation to mitochondria and mitophagy.

20. **Zvonimir Marelja**¹, Patrick Jouandin¹, Andrey A Parkhitko¹, Miriam Dambowsky¹, John M Asara¹, Ivan Nemazanyy¹, Matias Simons¹, Norbert Perrimon¹

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Metabolic communication between lysosomes and mitochondria during fasting.

21. **Marie-Charlotte Marx**¹, Elena Rugarli¹

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The RNA-binding protein CLUH associates to translational active granules under mitochondrial stress.

22. **Fiona Mayer**¹, Philipp Lampe¹, Thomas Langer¹

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Understanding the role of OPA1 processing by OMA1.

23. **Anna-Theresa Mellis**¹, Joshua B. Kohl¹, Guenter Schwarz¹

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Altered redox homeostasis in a new sulfite oxidase-deficient mouse model.

24. **Jelena Mistic**¹, Dusanka Milenkovic¹, Shan Jiang¹, Camilla Koolmeister¹, Min Jiang¹, Nils-Göran Larsson¹

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The in vivo role of RNaseH1.

25. **Chrysanthi Moschandrea**^{1,2,3}, Aleksandra Trifunovic^{2,3,4}, Manolis Pasparakis^{1,2,3}

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Role of DARS2 in the regulation of intestinal epithelial homeostasis.

26. **Elisa Motori**¹, Ilian Atanassov¹, Sandra Wendler¹, Kat Folz-Donahue¹, Vignesh Sakthivelu¹, Patrick Gialvalisco¹, Nicolas Toni¹, Julien-Pierre Puyal¹, Nils-Göran Larsson¹

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In vivo cell-type-specific proteomic analysis of Purkinje neurons reveals a reversible Mitofusin 2-dependent metabolic rewiring that precedes neurodegeneration.

27. **Michaela Höhne**¹, Markus Habich¹, Lena Murschall¹, Kim Lapacz¹, Carmelina Petrunaro¹ und Jan Riemer¹

Med29 and Hax1 - unconventional CHCHD4 substrates

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28. **Thomas Paß**^{1,2}, Konrad M. Ricke^{1,2}, Rudolf J. Wiesner^{1,2}

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Slow Progressive Impairment of mtDNA Replication in Dopaminergic Neurons Causes Selective Loss of Ventral Tegmental Area Projections.

29. **Anna Pellattiero**^{1,2}, Charlotte Quirin^{1,2}, Stéphanie Herkenne^{1,2}, Nikolaos Biris³, Laura Cendron¹, Evripidis Gavathiotis³, Luca Scorrano^{1,2}

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A high throughput screening identifies a small molecule inhibitor of the GTPase activity of OPA1 that enhances apoptotic release of cytochrome c.

30. **Gonçalo Pereira**¹, Hope I. Needs¹, William J. Allen¹, Daniel W. Watkins¹, Dylan Noone¹, Xia Liu¹, Ian Collinson¹

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A split-luciferase assay to monitor mitochondrial protein import in real-time.

31. **Alisa Potter**¹, Van Strien J.¹, Hensen F.¹ and Spelbrink J.N.¹

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Mass Spectrometric analysis of human mitochondrial nucleoid-associated proteome.

32. **Leonard Quiring**¹, B. Walter¹, D. Thavatheesan¹, A. Bauer¹, N. Lohaus¹, G. Pless-Petig¹, U. Rauen¹

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Cold-induced disturbances of mitochondrial dynamics in porcine aortic endothelial cells.

33. **Sonia Ravanelli**¹, Thorsten Hoppe¹

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The role of metabolic regulation in protein turnover.

34. **Ana Paula Rebelo**¹, Sang Hun Shin¹, Marta Giacomello¹

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A new class of contact sites modulators: the mitochondria-ER Spacers.

35. **Maria Eugenia Soriano Garcia-Cuerva**¹

¹University of Padova, Padova, Italy

Exploring the function and regulation of the mitochondrial ATAD3 protein family in physiology and cancer.

36. **Hans-Georg Sprenger**¹, Gulzar Wani¹, Annika Hesselting¹, Tim König¹, Maria Patron¹, Thomas MacVicar¹, Sofia Ahola¹, Timothy Wai¹, Esther Barth¹, Elena I. Rugarli¹, Matteo Bergami¹, Thomas Langer¹

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Loss of the mitochondrial i-AAA protease YME1L leads to ocular dysfunction and spinal axonopathy.

37. **David Stucki**¹, Peter Brenneisen¹, Andreas S. Reichert¹, Wilhelm Stahl¹

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Carbon monoxide releasing molecule 401 (CORM-401) modulates mitochondrial energetics of murine embryonic fibroblasts (MEFs).

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38. Karolina Szczepanowska¹, Katharina Senft¹, Marija Herholz¹, Alexandra Kukat¹, Juliana Heidler¹, Klaus Zwicker¹, Christina Becker¹, Sophie Kaspar¹, Eduard Hofsetz¹, Michaela Höhne¹, Sergio Guerrero-Castillo¹, Linda Baumann¹, Johanna Kauppila¹, Stefan Mueller¹, Christian Frese¹, Ulrich Brandt¹, Ilka Wittig¹, Jan Riemer¹ and Aleksandra Trifunovic¹

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Proteolytic control of Complex I.

39. Takashi Tatsuta¹

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Lipid traffic in mitochondria: Mechanisms of lipid transfer by Ups/PRELI family lipid transfer proteins.

40. Margherita Zamberlan¹, Stéphanie Herkenne^{1,2}, Konstantinos Lefkimmiatis², Luca Scorrano^{1,2}

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The Epac1/Rap1 pathway retrogradely signals changes in mitochondrial morphology.

41. Elena Ziviani¹, Sophia von Stockum¹

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Induction of parkin-independent mitophagy by USP8 inhibition.



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