

CV Daniel Wolfram Gerlich

Personal information

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Professional experience

Since 2012 Senior research group leader at Institute of Molecular Biotechnology of the Austrian Academy of Sciences (IMBA), Vienna, Austria

2005 – 2012 Assistant Professor at the Institute of Biochemistry, Swiss Federal Institute of Technology Zurich (ETHZ), Switzerland

2002 – 2005 Postdoctoral fellow in the laboratory of Jan Ellenberg at the European Molecular Biology Laboratory (EMBL), Heidelberg, Germany

Higher education

2002 PhD (summa cum laude) at University of Heidelberg, Germany. Thesis work in department of Dr. R. Eils, German Cancer Research Center (DKFZ).

1998 Diploma in Biology at University of Freiburg, Germany; diploma thesis in laboratory of Dr. P. Caroni, Friedrich Miescher Institute (FMI), Basel, Switzerland

Fellowships and awards

2017 Elected as EMBO member

2011 ERC Starting Independent Researcher Grant (consolidator)

2011 Summer Research Award, Marine Biology Laboratory, Woods Hole, USA

2010 Dr. Ernst Th. Jucker Award for Cancer Research

2009 Elected as EMBO Young Investigator

2005 European Young Investigator Award (EURYI Award) of the European Science Foundation

2004 Junior scientist award, Society for Promotion of Molecular Biology Heidelberg

2003 Walther and Christine Richtzenhain-Dissertation Award

2002 EMBO long term postdoctoral fellowship

1998 PhD fellowship "Cellular and Molecular Neurobiology", Ruprecht Karls University Heidelberg

Selected past and present funding

2020 - 2024 Vienna Science and Technology Fund (WWTF), (500,000 EUR)

2018 - 2022 Vienna Science and Technology Fund (WWTF), (490,000 EUR)

2015 - 2018 Austrian Science Fund (FWF), SFB "Chromosome dynamics" (475,000 EUR)

2012 - 2017 ERC Starting Grant (consolidator) "DIVIMAGE" (1,500,000 EUR)

2010 - 2015 EU FP7 Network of Excellence grant "Systems Microscopy" (1,003,000 EUR)

- 2010 - 2015 EU FP7 Collaborative grant "MitoSys" (553,000 EUR)
2006 - 2011 European Young Investigator Award, European Science Foundation (1,017,000 EUR)

Memberships in scientific societies

- 2017 – Full EMBO member
2009 – EMBO Young Investigator Program
2002 – American Society of Cell Biology

Professional and scholarly activities

- Editorial Advisory Board Member of the Journal of Cell Science (since 2014)
- Advisory Board Member of Review Commons (since 2019)
- Board member of Vienna BioCenter Core Facilities

Ten most important publications

1. M. Mitter, C. Gasser, Z. Takacs, C. C. H. Langer, W. Tang, G. Jessberger, C. T. Beales, E. Neuner, S. L. Ameres, J.-M. Peters, A. Goloborodko, R. Micura, Daniel W. Gerlich. Conformation of sister chromatids in the replicated human genome. *Nature* (2020), in press.
2. S. Cuylen-Haering, M. Petrovic, A. Hernandez-Armendariz, M.W. G. Schneider, M. Samwer, C. Blaukopf, L.J. Holt, D.W. Gerlich. Chromosome clustering by Ki-67 excludes cytoplasm during nuclear assembly. *Nature* (2020), in press.
3. M. Samwer, M.W.G. Schneider, R. Hoefler, P.S. Schmalhorst, J.G. Jude, J. Zuber, D.W. Gerlich. DNA cross-bridging shapes a single nucleus from a set of mitotic chromosomes. *Cell* (2017): 170(5): 956-972.e23. doi: 10.1016/j.cell.2017.07.038.
4. B.E. Mierzwa, N. Chiaruttini, L. Redondo-Morata, J.M. von Filseck, J. König, J. Larios, I. Poser, T. Müller-Reichert, S. Scheuring, A. Roux, D.W. Gerlich. Dynamic subunit turnover in ESCRT-III assemblies is regulated by Vps4 to mediate membrane remodelling during cytokinesis. *Nat Cell Biol.* (2017): 787-798. doi: 10.1038/ncb3559. Epub 2017 Jun 12.
5. S. Cuylen, C. Blaukopf, A. Z. Politi, T. Müller-Reichert, B. Neumann, I. Poser, J. Ellenberg, A. Hyman, D. W. Gerlich. Ki-67 acts as a biological surfactant to disperse mitotic chromosomes. *Nature* (2016) 535(7611): 308-12. doi: 10.1038/nature18610.
6. A. E. Dick and D. W. Gerlich. Kinetic framework of spindle assembly checkpoint signaling. *Nature Cell Biol* (2013) 15(11): 1370-77.
7. J. Guizetti, L. Schermelleh, J. Mäntler, S. Maar, I. Poser, H. Leonhardt, T. Müller-Reichert, and D. W. Gerlich. Helices of ESCRT-III-dependent filaments in a cortical constriction mechanism of abscission. *Science* (2011) 331(6024): 1616-20
8. M. H. A. Schmitz, M. Held, V. Janssens, J. R. A. Hutchins, O. Hudecz, E. Ivanova, J. Goris, L. Trinkle-Mulcahy, A. I. Lamond, I. Poser, A. A. Hyman, K. Mechtler, J.-M. Peters, and D. W. Gerlich. Live imaging RNAi screen identifies PP2A-B55 α and Importin β 1 as key mitotic exit regulators in human cells. *Nature Cell Biol* (2010) 12(9): 886-93
9. M. Held, M. H. A. Schmitz, B. Fischer, T. Walter, B. Neumann, B. H. Olma, M. Peter, J. Ellenberg, and D. W. Gerlich. CellCognition: time-resolved phenotype annotation in high-throughput live cell imaging. *Nature Methods* (2010) 7(9): 747-54
10. P. Steigemann, M. Schmitz, C. Wurzenberger, J. Guizetti, M. Held, S. Maar, and D. W. Gerlich. Aurora B-mediated abscission checkpoint protects against tetraploidization. *Cell* (2009) 136(3): 473-84