

Prof. Dr. Gabriel Neurohr

Institute of Biochemistry
ETH Zurich
Otto-Stern-Weg 3, HPM G 16
ETH-Hönggerberg,
CH-8093 Zürich, Switzerland
Phone: 0041 44 633 2654
e-mail: gabriel.neurohr@bc.biol.ethz.ch

Date of birth: 25.6.1983, Zürich ZH, Switzerland
3 children, born 2012, 2015 and 2018

Academic education and professional experience:

- 2003 – 2006 BSc with specification in Biochemistry, ETH Zurich, Switzerland
- 2006 – 2008 MSc with specification in Biochemistry and Cell Biology, ETH Zurich, Switzerland
- 2008 – 2012 PhD Thesis with Prof. Manuel Mendoza, Center of Genomic Regulation (CRG) & Universitat Pompeu Fabre (UPF), Barcelona, Spain
- 2013 – 2020 Post-doctoral work with Prof. Angelika Amon, Koch Institute for Integrative Cancer Research, Massachusetts Institute of Technology (MIT), Cambridge, Massachusetts, USA
- 2020 – now Assistant Professor for Cell Size and Homeostasis, ETH Zürich, Switzerland

Research topics: Role of cell size on cell physiology
 Regulation and relevance of cytoplasm density
 Aging and cellular senescence

Relevant awards and conference organization:

- 2020-2025 SNF Eccellenza Fellowship
- 2014-2017 SNF Mobility (Postdoc) Fellowship
- 2015 Chair: Gordon Research Seminar (GRS) on Cell Growth and Proliferation
- 2013 Co-Chair: Gordon Research Seminar (GRS) on Cell Growth and Proliferation
- 2013-2014 EMBO Long Term Fellowship (Postdoc)

2013 Jane Coffin Childs Fellowship (Declined)

2008-2012 LaCaixa PhD fellowship

2008 Medal of ETH for excellent Master Thesis (2.5% of all Master Thesis)

PUBLICATIONS (2011 – 2020)

Research Papers

Neurohr GE, Terry RL, Lengefeld J, Bonney M, Brittingham GP, Moretto F, Miettinen TP, Pontano Vaites L, Soares LM, Paulo J, Harper W, Buratowski S, Manalis S, van Werven FJ, Holt LJ, Amon A. Excessive cell growth causes cytoplasm dilution. **Cell**. 2019; 176(5), 1083–1097.

Neurohr GE, Terry RL, Sandikci A, Zou K, Li H, Amon A. Dereglulation of the G1/S-phase transition is the proximal cause of mortality in old yeast mother cells. **Genes & Development**. 2018; 32, 1075-1084.

Neurohr GE, Naegeli A, Titos I, Theler D, Greber B, Díez J, Gabaldón T, Mendoza M, Barral Y. A midzone-based ruler adjusts chromosome compaction to anaphase spindle length. **Science**. 2011; 332(6028), 465-8.

Amaral N, Vendrell A, Funaya C, Idrissi FZ, Maier M, Kumar A, **Neurohr GE**, Colomina N, Torres-Rosell J, Geli MI, Mendoza M. The Aurora-B-dependent NoCut checkpoint prevents damage of anaphase bridges after DNA replication stress. **Nature Cell Biology**. 2016; 18(5), 516–526.

Review articles

Neurohr GE, & Amon A. (2020). Relevance and Regulation of Cell Density. **Trends in Cell Biology**. 2020; 30(3), 213–225.

Neurohr GE, Mendoza M. Cdc14 Localization as a Marker for Mitotic Exit: In Vivo Quantitative Analysis of Cdc14 Release. **Methods in Molecular Biology**. (Clifton, N.J.), 2017; 1505, 59–67. Review.

Neurohr GE, Gerlich DW. Assays for mitotic chromosome condensation in live yeast and mammalian cells. **Chromosome Res**. 2009; 17(2), 145-54. Review.