

Curriculum Vitae

Franz Meitinger

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Professional Experience

since 2022 Assistant Professor at Okinawa Institute for Science and Technology, Okinawa, Japan
2014-2022 Postdoctoral fellow at Ludwig Institute for Cancer Research, San Diego, USA
2011-2014 Postdoctoral fellow at German Cancer Research Center, Heidelberg, Germany
2007-2011 PhD student at University of Heidelberg, Germany
2002-2007 Student at University of Regensburg, Germany

Education

2011 PhD at Ruprecht-Karls-Universität Heidelberg, Germany (summa cum laude)
2007 Diplom (M.Sc.) at University of Regensburg, Germany

Patent

1. Oegema, K., Shiau, A.K., Desai, A., Meitinger, F. and Davis, R.L., Methods of treating cancer with PLK4 inhibitors, PCT/US2018/064243

Publications

*equal contribution; #corresponding authors

1. Meitinger, F., Davis, R.L., Martinez, M.B., Shiau, A.K., Oegema, K., Desai, A. (2022). Control of cell proliferation by memories of mitosis. **bioRxiv** 2022.11.14.515741; doi: <https://doi.org/10.1101/2022.11.14.515741>.
2. Meitinger, F., Kong, D. *, Ohta, M. *, Desai, A., Oegema K., Loncarek, J. (2021) TRIM37 prevents formation of condensate-organized ectopic spindle poles to ensure mitotic fidelity. **Journal of Cell Biology**. 220(7):e202010180.
3. Kubo, N., Ishii, H., Xiong, X., Bianco, S., Meitinger, F., Hu, R., Hocker, J.D., Conte, M., Gorkin, D., Yu M., Li, B., Dixon, J.R., Hu, M., Nicodemi, M., Zhao, H., Ren, B. (2021). Promoter-proximal CTCF-binding Promotes Long-range-enhancer Dependent Gene Activation". **Nat Struct Mol Biol**, doi:10.1038/s41594-020-00539-5.
4. Watanabe, S. *, Meitinger, F. *, Shiau, A.K., Oegema, K.#, Desai, A.#. (2020). Centriole-independent mitotic spindle assembly relies on the PCNT-CDK5RAP2 pericentriolar matrix. **Journal of Cell Biology**. 219(12):e202006010.
5. Meitinger, F. #, Ohta, M., Lee, K.Y., Watanabe, S., Davis, R.L., Anzola, J.V., Kabeche, R., Jenkins, J., Shiau, A.K., Desai, A. #, Oegema, K. #. (2020). The ubiquitin ligase TRIM37 controls cancer-specific vulnerability to PLK4 inhibition. **Nature** 585:440-446.
Highlighted in Nature Reviews Drug Discovery and Cancer Discovery.
6. Gemble, S., Simon, A., Pennetier, C., Dumont, M., Hervé, S., Meitinger, F., Oegema, K., Rodriguez, R., Almouzni, G., Fachinetti, D., Basto, R. (2019). Centromere Dysfunction Compromises Mitotic Spindle Pole Integrity. **Current Biology** 29, 3072-3080 e3075
7. Fei, J., Ishii, H., Hoeksema, M.A., Meitinger, F., Kassavetis, G.A., Glass, C.K., Ren, B., and Kadonaga, J.T. (2018). NDF, a nucleosome-destabilizing factor that facilitates transcription through nucleosomes. **Genes**

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- & Development** 32, 682–694.
8. Kim, T., Lara-Gonzalez, P., Prevo, B., Meitinger, F., Cheerambathur, D.K., Oegema, K., and Desai, A. (2017). Kinetochores accelerate or delay APC/C activation by directing Cdc20 to opposing fates. **Genes & Development** 31, 1089-1094.
 9. Meitinger, F., and Pereira, G. (2017). The septin-associated kinase Gin4 recruits Gps1 to the site of cell division. **Molecular Biology of the Cell** 28 (7), 883-889.
 10. Meitinger, F., Anzola, J.V., Kaulich, M., Richardson, A., Stender, J.D., Benner, C., Glass, C.K., Dowdy, S.F., Desai, A., Shiau, A.K., Oegema, K. (2016). 53BP1 and USP28 mediate p53 activation and G1 arrest after centrosome loss or extended mitotic duration. **Journal of Cell Biology** 214, 155-166.
Highlighted and summarized in:
Soussi, T. and Kroemer, G. (2016) TP53 and 53BP1 Reunited. Trends in Cell Biology.
Strzyz, P. (2016) Cell Signalling to cell cycle arrest. Nature Reviews Molecular Cell Biology
Durocher, D. and Pelletier, L. (2016) 53BP1 Goes Back to its p53 Roots. Molecular Cell
Lambrus and B.G., Holland, A.J. (2017) A new mode of of mitotic Surveillance. Trends in Cell Biology
 11. Meitinger, F., Khmelinskii, A., Morlot, S., Kurtulmus, B., Palani, S., Andres-Pons, A., Hub, B., Knop, M., Charvin, G., and Pereira, G. (2014). A memory system of negative polarity cues prevents replicative aging. **Cell** 159, 1056-1069.
Commented in:
Wedlich-Söldner, R. (2014). A longer life for yeast with good memory. Dev. Cell, 31:391-392.
 12. Meitinger, F., Palani, S., Hub, B., and Pereira, G. (2013a). Dual function of the NDR-kinase Dbf2 in the regulation of the F-BAR protein Hof1 during cytokinesis. **Molecular Biology of the Cell** 24, 1290-1304.
 13. Meitinger, F., Richter, H., Heisel, S., Hub, B., Seufert, W., and Pereira, G. (2013b). A safeguard mechanism regulates Rho GTPases to coordinate cytokinesis with the establishment of cell polarity. **PLoS Biology** 11, e1001495.
 14. Mancini Lombardi, I., Palani, S., Meitinger, F., Darieva, Z., Hofmann, A., Sharrocks, A.D., and Pereira, G. (2013). Lre1 directly inhibits the NDR/Lats kinase Cbk1 at the cell division site in a phosphorylation-dependent manner. **Current Biology**, CB 23, 1736-1745.
 15. Palani, S., Meitinger, F., Boehm, M.E., Lehmann, W.D., and Pereira, G. (2012). Cdc14-dependent dephosphorylation of Inn1 contributes to Inn1-Cyk3 complex formation. **Journal of Cell Science** 125, 3091-3096.
 16. Meitinger, F., Boehm, M.E., Hofmann, A., Hub, B., Zentgraf, H., Lehmann, W.D., and Pereira, G. (2011). Phosphorylation-dependent regulation of the F-BAR protein Hof1 during cytokinesis. **Genes & Development** 25, 875-888.
 17. Meitinger, F., Petrova, B., Lombardi, I.M., Bertazzi, D.T., Hub, B., Zentgraf, H., and Pereira, G. (2010). Targeted localization of Inn1, Cyk3 and Chs2 by the mitotic-exit network regulates cytokinesis in budding yeast. **Journal of Cell Science** 123, 1851-1861.
Commented in:
Bradbury, J. (2010). Mitotic-exit networks with cytokinesis. J. Cell Sci. 123, 1103e.

Review Articles

1. Meitinger, F., and Palani, S. # (2016). Actomyosin ring driven cytokinesis in budding yeast. **Seminars in Cell & Developmental Biology** 53, 19-27. # corresponding authors
2. Meitinger, F., Palani, S., and Pereira, G. (2012). The power of MEN in cytokinesis. **Cell Cycle** 11, 219-228.

Book Chapters

1. Meitinger, F., Palani, S., and Pereira, G. (2016). Detection of Phosphorylation Status of Cytokinetic Components. **Methods Mol Biol** 1369, 219-237.
2. Meitinger, F., and Pereira, G. (2016). Visualization of Cytokinesis Events in Budding Yeast by Transmission Electron Microscopy. **Methods Mol Biol** 1369, 87-95.

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Invited Talks

- 2022 ASCB/EMBO meeting, Washington DC, USA
- 2021 NIDCR Early Career Seminar Series, Bethesda, USA
- 2019 ASCB/EMBO meeting, Washington DC, USA
- 2019 Mitotic and Meiotic Cell Cycle control and execution, Conferences Jacques-Monod, Roscoff, France
- 2019 Mitotic spindle: From living and synthetic systems to theory, Split, Croatia
- 2018 Cell Cycle Meeting, Salk Institute, San Diego, USA
- 2018 Annual LICR Symposium, San Diego, USA
- 2016 Annual LICR Symposium, San Diego, USA
- 2013 DKFZ-ZMBH Alliance Seminar Series, Heidelberg, Germany
- 2013 EMBO meeting, Amsterdam, Netherland
- 2012 Annual meeting of the German Society for Cell Biology, Dresden, Germany
- 2012 Cell Polarity and Membrane Traffic, ESF-EMBO Symposium, Pultusk, Poland
- 2011 Function and Structure of Septins, filament-forming GTP-binding Proteins, EMBO workshop, St. Goar, Germany
- 2009 Yeast Cell Biology meeting, Cold Spring Harbor, NY, USA

Professional Memberships

- since 2022 Member of Molecular Biology Society of Japan
- since 2018 Member of the American Association for Cancer Research
- since 2015 Member of the American Society for Cell Biology
- since 2012 Member of the German Society for Cell Biology