

Prof. Dr. Mathias Munschauer

Group Leader

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Education

- 2014 Dr. rer. nat., Biochemistry, Freie Universität Berlin, Germany
2010 Dipl.-Ing. (FH), Biotechnology, University of Applied Sciences Mannheim, Germany

Positions

- 2023 - present Professor (W2), Institute of Medical Virology, University Hospital Frankfurt, Goethe University Frankfurt, Germany
2023 - present Group Leader, Helmholtz Institute for RNA-based Infection Research (HIRI), Würzburg, Germany
2021 - 2023 Junior Professor (W1), Faculty of Medicine, University of Würzburg, Germany
2019 - 2023 Head of Helmholtz Young Investigator Group, Helmholtz Institute for RNA-based Infection Research, Würzburg, Germany
2014 - 2019 Postdoc, Laboratory of Dr. Eric Lander, The Broad Institute of MIT and Harvard, Cambridge, MA, USA
2010 - 2014 Graduate Student, Laboratory of Dr. Markus Landthaler, Max Delbrück Center for Molecular Medicine, Berlin, Germany & Laboratory of Dr. Christine Vogel, New York University, NY, USA
2009 - 2010 Student, Laboratory of Dr. Thomas Tuschl, HHMI/The Rockefeller University, NY, USA

Awards & Honors

ERC Starting Grant (2022), Head of Helmholtz Young Investigator Group (since 2019), Broad Israel Science Foundation (ISF) Grant (2017), Research Fellowship from the German Research Foundation (DFG) (2016), Springer Outstanding PhD Research Award (2014), A.T. Kearney Scholarship (2013), MDC Award for Outstanding Research Achievements (2012), International MDC-NYU PhD Exchange Program Fellowship (2010)

Selected Publications

- Schmidt N, Ganskih S, Wei Y, Gabel A, Zielinski S, (...) Dölken L, Smyth RP, Caliskan N, Marsico A, Krempel C, Bodem J, Pichlmair A, Carr SA, Chlanda P, Erhard F, **Munschauer M** (2023)
SND1 binds SARS-CoV-2 negative-sense RNA and promotes viral RNA synthesis through NSP9
Cell 186(22):4834-4850.e23
- Gonzalez-Perez AC, Stempel M, Wyler E, Urban C, Piras A, Hennig T, Ganskih S, Wei Y, Heim A, Landthaler M, Pichlmair A, Dölken L, **Munschauer M**, Erhard F, Brinkmann MM (2021)
The Zinc Finger Antiviral Protein ZAP Restricts Human Cytomegalovirus and Selectively Binds and Destabilizes Viral UL4/UL5 Transcripts
mBio 12(3):e02683-20
- Schmidt N*, Lareau CA*, Keshishian H*, Ganskih S, Schneider C, Hennig T, Melanson R, Werner S, Wei Y, Zimmer M, Ade J, Kirschner L, Zielinski S, Dölken L, Lander ES, Caliskan N, Fischer U, Vogel J, Carr SA, Bodem J#, **Munschauer M**# (2021)
The SARS-CoV-2 RNA-protein interactome in infected human cells
Nature Microbiology 6(3):339-353
- Basak A*#, **Munschauer M***, Lareau CA, Montbleau KE, Ulirsch JC, Hartigan CR, Schenone M, Lian J, Wang Y, Huang Y, Wu X, Gehrke L, Rice CM, An X, Christou HA, Mohandas N, Carr SA, Chen JJ, Orkin SH, Lander ES, Sankaran VG# (2020)
Control of human hemoglobin switching by LIN28B-mediated regulation of BCL11A translation
Nature Genetics 52(2):138-145
- Munschauer M**#, Nguyen CT, Sirokman K, Hartigan CR, Hogstrom L, Engreitz JM, Fulco CP, Subramanian V, Chen J, Ulirsch JC, Schenone M, Guttman M, Carr SA, Lander ES# (2018)
The NORAD lncRNA assembles a topoisomerase complex critical for genome stability
Nature 561(7721):132-136