

DR. MATHIAS MUNSCHAUER

Helmholtz Young Investigator

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Education

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

Positions

- 2019 - present Helmholtz Junior Group Leader, Helmholtz Institute for RNA-based Infection Research (HIRI), Würzburg, Germany
2014 - 2019 Postdoctoral Fellow, Laboratory of Dr. Eric Lander, The Broad Institute of MIT and Harvard, Cambridge, 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

Helmholtz Young Investigator (2019 - 2025), 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

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

Munschauer M and Vogel J (2018)

Nuclear lncRNA stabilization in the host response to bacterial infection

EMBO Journal 37(13)

Khajuria RK, Munschauer M, Ulirsch JC, Fiorini C, Ludwig LS, McFarland SK, Abdulhay NJ, Specht H, Keshishian H, Mani DR, Jovanovic M, Ellis SR, Fulco CP, Engreitz JM, Schütz S, Lian J, Gripp KW, Weinberg OK, Pinkus GS, Gehrke L, Regev A, Lander ES, Gazda HT, Lee WY, Panse VG, Carr SA, Sankaran VG (2018)

Ribosome levels selectively regulate translation and lineage commitment in human hematopoiesis

Cell 173(1):90-103.e19

Fulco CP, Munschauer M, Anyoha R, Munson G, Grossman SR, Perez EM, Kane M, Cleary B, Lander ES, Engreitz EM (2016)

Systematic mapping of functional enhancer-promoter connections with CRISPR interference

Science 354(6313):769-773

Baltz AG, Munschauer M, Schwanhaeusser B, Vasile A, Murakawa Y, Schueler M, Youngs N, Penfold-Brown D, Drew K, Milek M, Wyler E, Bonneau R, Selbach M, Dieterich C, Landthaler M (2012)

The mRNA-bound proteome and its global occupancy profile on protein-coding transcripts

Molecular Cell 46(5):674-90.