

CURRICULUM VITAE – Fabian Gather

1. Personal data

Name, degree: Gather, Fabian, Dr. rer. nat.

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2. Professional Career

2024 – today **Junior group leader/Lecturer for Anatomy**
Group Leader for Neuroepigenetics and RNA-based therapies, brain organoids
Institute of Neuroanatomy and Cell Biology, Medical School
Hannover, Germany

2020 – 2024 **Postdoctoral Researcher/Lecturer for Anatomy**
Developmental Neuroepigenetics Lab, Institute of Anatomy and Cell Biology, University Freiburg, Germany

2015 – 2020 **PhD student**
Institute of Pharmacology, Medical Center of the Johannes Gutenberg University Mainz, Germany

07/2015-08/2015 **Research Fellow**
Institute of Reconstructive Neurobiology, University of Bonn, Germany

02/2013-06/2013 **Research Fellow**
Bäckvall group, Department of Organic Chemistry, University of Stockholm, Sweden

3. Education and Qualification

2015 – 2020 **Dr. rer. nat.**
Institute of Pharmacology, Medical Center of the Johannes Gutenberg University Mainz, Germany
Title: „ Analyse der Expression der humanen induzierbaren NO-Synthase (iNOS): Einfluss der 5'-UTR auf die Expression der humanen iNOS und Expression der humanen iNOS in Modellen der neuronalen Differenzierung“

2009 – 2015 **Biomedical Chemistry (diploma)**
Johannes Gutenberg University Mainz, Germany

4. Activities in the Research System and Memberships in scientific societies

- Speaker of the Young Anatomists, Anatomische Gesellschaft, DE
- Member of the Anatomische Gesellschaft, DE

5. Signature Publications

Akol I, Izzo A, **Gather F**, Strack S, Heidrich S, Ó hAilín D, Villarreal A, Hacker C, Rauleac T, Bella C, Fischer A, Manke T, Vogel T (2023) Multimodal epigenetic changes and altered NEUROD1 chromatin binding in the mouse hippocampus underlie FOXP1 syndrome. *Proc Natl Acad Sci U S A.* 120(2):e2122467120. doi: 10.1073/pnas.2122467120.

Gather F, Ihrig-Biedert I, Kohlhas P, Krutenko T, Peitz M, Brüstle O, Pautz A, Kleinert H (2022) A specific, non-immune system-related isoform of the human inducible nitric oxide synthase is expressed during differentiation of human stem cells into various cell types. *Cell Commun Signal.* 20(1):47. <https://doi.org/10.1186/s12964-022-00855-x>

Akol I, **Gather F**, Vogel T (2022) Paving Therapeutic Avenues for FOXP1 Syndrome: Untangling Genotypes and Phenotypes from a Molecular Perspective. *Int J Mol Sci.* 23(2):954. <https://doi.org/10.3390/ijms23020954>

Schmidtke L, Meineck M, Saurin S, Otten S, **Gather F**, Schrick K, Käfer R, Roth W, Kleinert H, Weinmann-Menke J, Pautz A (2021) Knockout of the KH-Type Splicing Regulatory Protein Drives Glomerulonephritis in MRL-Fas^{lpr} Mice. *Cells.* 10(11):3167. <https://doi.org/10.3390/cells10113167>

Gather F, Schmitz K, Koch K, Vogt LM, Pautz A, Kleinert H (2019) Regulation of human inducible nitric oxide synthase expression by an upstream open reading frame. *Nitric Oxide.* 88:50-60. <https://doi.org/10.1016/j.niox.2019.04.008>

Schmidtke L, Schrick K, Saurin S, Käfer R, **Gather F**, Weinmann-Menke J, Kleinert H, Pautz A (2019) The KH-type splicing regulatory protein (KSRP) regulates type III interferon expression post-transcriptionally. *Biochem J.* 476(2):333-352. <https://doi.org/10.1042/BCJ20180522>