

## Curriculum Vitae

### Personal Data

Title	Prof. Dr. rer. nat.
First name	Michael
Name	Ziller
Current position	W3 Professor
Current institution(s)/ site(s), country	Department of Psychiatry and Psychotherapy, Faculty of Medicine, UKM, Universität Münster (UMS), Germany
Identifiers/ORCID	0000-0003-0781-7980

### Qualifications and Career

Stages	Periods and Details	
Degree programme	2003–2009	Bioinformatics, Universität Tübingen Tübingen, Germany
	2004–2010	Physics, Universität Tübingen, Tübingen, Germany
Doctorate	2014	Dissertation, Functional Genomics, “Dissecting cellular states and cell state transitions through integrative analysis of epigenetic dynamics, Department of Stem Cell and Regenerative Biology”, Harvard University, USA/Department for Computer Science, Universität Tübingen, Germany
Stages of academic/ professional career	2020–present	Professor of Functional Genomics (W3), Dept. of Psychiatry, UMS, Germany
	2016–2020	Independent Group Leader, Max-Planck-Institute of Psychiatry, Germany
	2014–2015	Postdoc, Department of Stem Cell and Regenerative Biology, Harvard University, Cambridge, USA
	2010–2014	Graduate Student, Department of Stem Cell and Regenerative Biology, Harvard University, Cambridge, USA
	2009–2015	Graduate Research Assistant, The Broad Institute of Harvard and MIT, Cambridge, USA

### Engagement in the Research System

since 2022	Co-coordinator EU Horizon Europe grant PsychStrata (with B. Baune)
since 2016	Review Panel Member, Joachim Hertz Stiftung, Germany
2016–2018	Scientific Steering Board, National Initiative for Systems Medicine (eMed), Germany
2017	Review Panel Member German Conference on Bioinformatics

### Supervision of Researchers in Early Career Phases

- Regular contributions to multidisciplinary training for national and international undergraduate, graduate and postgraduate students offering lectures, practical courses and seminars on different topics in functional genomics, epigenetics, and stem cell biology. Since 2015, personal supervision of 9 PhD students.

### Scientific Results

Contributions:<sup>1</sup>Conceptualization/Methodology, <sup>2</sup>Analysis, <sup>3</sup>Investigation, <sup>4</sup>Funding Acquisition, <sup>5</sup>Writing

#### Category A (10 selected publications out of 53)

Yuan W, ..., **Ziller MJ**<sup>\*1,2,3,4,5</sup>, Arlotta P\*: Temporally-divergent regulatory mechanisms govern neuronal development and diversification in the neocortex. *Nat Neurosci* 2022; 25(8):1049-1058. DOI: 10.1038/s41593-022-01123-4

Genga RMJ, ..., **Ziller MJ**<sup>1,2,3,5</sup>, Maehr R: Single-Cell RNA-sequencing-based CRISPRi screening resolves molecular drivers of early human endoderm development. *Cell Rep* 2019; 27(3):708-718.e10. DOI: 10.1016/j.celrep.2019.03.076

**Ziller MJ**<sup>1,3,4,5</sup>, ..., Kiskinis E: Dissecting the role of de novo DNA methylation dynamics in the development and function of human motor neurons. *Cell Stem Cell* 2018; 22(4):559-574.e9. DOI: 10.1016/j.stem.2018.02.012

Galonska C\*, **Ziller MJ**<sup>\*1,2,3,5</sup>, Karnik R, Meissner A: Ground state conditions induce rapid reorganization of core pluripotency factor binding that precede global epigenetic reprogramming. *Cell Stem Cell* 2015; 17(4):462-70. DOI:10.1016/j.stem.2015.07.005

Cacchiarelli D\*, Trapnell C\*, **Ziller MJ**<sup>\*1,2,3,5</sup>, ..., Mikkelsen TS: A scalable cellular reprogramming system and integrative genomic approaches reveal ordered transitions towards pluripotency in human cells. *Cell* 2015; 162(2):412-424. DOI: 10.1016/j.cell.2015.06.016

**Ziller MJ**<sup>\*1,2,3,5</sup>, ..., Meissner A: Dissecting neural differentiation regulatory networks through epigenetic footprinting. *Nature* 2015; 518(7539):355-359. DOI: 10.1038/nature13990

Roadmap Epigenomics Consortium, ..., **Ziller MJ**<sup>1,2,3,5</sup>, ..., Kellis M: Integrative analysis of 111 reference human epigenomes. *Nature* 2015; 518:317-330. DOI: 10.1038/nature14248

**Ziller MJ**<sup>\*1,2,3,5</sup>, Hansen KD, Meissner A, Aryee MJ: Coverage and replicate requirements for whole genome bisulfite sequencing. *Nature Methods* 2014; 12(3):230-232. DOI:10.1038/nmeth.3152

**Ziller MJ**<sup>\*1,2,3,5</sup>, ..., Meissner A: Charting a dynamic DNA methylation landscape of the human genome. *Nature* 2013; 500(7463):477-481. DOI: 10.1038/nature12433

Gifford CA, **Ziller MJ**<sup>\*1,2,3,5</sup>, ..., Meissner A: Transcriptional and epigenetic dynamics during specification of human embryonic stem cells. *Cell* 2013; 153(5):1149-63. DOI: 10.1016/j.cell.2013.04.037

#### Category B

Trastulla L, ..., **Ziller MJ**<sup>1,2,3,4,5</sup>: Distinct genetic liability profiles define clinically relevant patient strata across common diseases. *medRxiv* 2023. DOI: 10.1101/2023.05.10.23289788

Rummel CK\*, Gagliardi M\*, ..., **Ziller MJ**<sup>1,2,3,4,5</sup>: Cell type and condition specific functional annotation of schizophrenia associated non-coding genetic variants. *bioRxiv* 2023. DOI: 10.1101/2023.06.27.545266 (Preprint)

**Science communication**

n/a

**Academic Distinctions**

2010–2013    PhD fellowship by Studienstiftung des Deutschen Volkes

2010            DAAD Master Thesis Fellowship for Conducting Research Abroad

**Other Information**

n/a