

## Short CV Prof. Dr. Michael Schlierf

Professor for Molecular Biophysics, B CUBE, TU Dresden, Tatzberg 41, 01307 Dresden, Germany  
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### Personal Details and Work Experience

Born: 1. November 1978, Nürnberg, Germany  
ORCID: 0000-0002-6209-2364  
2017 – present Professor Molecular Biophysics at B CUBE & Physics, TU Dresden  
2010 – 2017 Independent group leader at B CUBE, TU Dresden

### Current Fields of Interest

Biophysics of the development and transmittance of antibiotic resistances;  
biophysics of membrane protein (mis)folding; single-molecule techniques for *in vitro* & *in vivo* studies

### Educational Background

2008 – 2010 Postdoc, Physics Department, U Illinois, USA, Prof. Taekjip Ha  
2005 – 2008 Dr. rer. nat., Physik, TU München, Germany, Prof. Dr. M. Rief  
2001 – 2002 Physique fondamentale, Université Paris XI, France  
1999 – 2004 Diplom-Physik, LMU München, Germany

### Honors, Awards & Recognitions

2014, '18, '21 Dresden Outstanding Mentor Award and GA Betreuerpreis finalist  
2014 – 2017 TU Dresden Young Investigator  
2009 – 2010 DFG Postdoctoral Fellowship SCHL1896/1-1  
2005 – 2008 PhD-Scholarship *Studienstiftung des deutschen Volkes*  
2005 – 2008 PhD-Scholarship *Doctorate Program Nano-Bio-Technology*

### Extracurricular activities

2022 – present CMCB and EXC PoL IT strategy development (CDIO)  
2019 – 2023 (Co-) Director of B CUBE (7+ research groups; ~100 persons)  
2018 – 2024 Study dean of MSc NanoBioPhysics and MSc Physics of Life  
2020 – present Vorstandsmitglied Forschungsgemeinschaft Mukoviszidose e.V.  
2018, 2019 Panel member of the French funding organization ANR  
2017 – 2021 Speaker of Section *Molecular Biophysics* of DGfB  
2012 – present Presentation of our lab at *Dresden Long Night of Sciences*  
2011 – present Ad-hoc peer review for journals, grants, tenure evaluations

### Current Funding

|             |          |   |
|-------------|----------|---|
| 2024 – 2026 | 250 kEUR | SMWA-EFRE Validation Grant                      |
| 2024 – 2028 | 380 kEUR | NFDI4BIOIMAGE Research Data Management for CMCB |
| 2024 – 2026 | 288 kEUR | DFG SCHL1896/9-1                                |
| 2024 – 2025 | 200 kEUR | Physics of Life Nucleation grant (w. M. Jahnel) |
| 2024 – 2027 | 257 kEUR | DFG SCHL1896/4-3                                |
| 2023 – 2025 | 362 kEUR | DFG SCHL1896/6-1                                |

### Publications

61 original publications, 4 review articles, 2 commentaries, 2 book chapters, 1 patent  
h-index 30, i10-index 47, 3548 citations (3 Jan 2025) link to [Google Scholar](#) or [Pubmed](#)

#### **Recent publications:**

- Vorobevskaia E, Loot C, Mazel D, [Schlierf M<sup>‡</sup>](#) 2024. *The recombination efficiency of the bacterial integron depends on the mechanical stability of the synaptic complex* **Science Advances** adp8756
- Hartmann A<sup>‡</sup>, Sreenivasa K\*, Schenkel M\*, Chamachi N\*, Schake P\*, Krainer G, [Schlierf M<sup>‡</sup>](#) 2023. *An automated single-molecule FRET platform for high-content, multiwell plate screening of biomolecular conformations and dynamics* **Nature Communications** 14, 6511
- Chamachi N\*, Hartmann A\*, Ma MQ, Svirina A, Krainer G<sup>‡</sup>, [Schlierf M<sup>‡</sup>](#) 2022. *Chaperones Skp and SurA dynamically expand unfolded OmpX and synergistically disassemble oligomeric aggregates* **PNAS** 119(9) e2118919119