

## D5: Molecular Biophysics II

BZ Graduate Teaching Program FS 2024,  
Cycle D, No. 32793-01

Organizers: Prof. Stephan Grzesiek, Prof. Timm Maier

[https://adam.unibas.ch/goto\\_adam\\_crs\\_1687650.html](https://adam.unibas.ch/goto_adam_crs_1687650.html)

ZOOM: <https://unibas.zoom.us/j/69251758009>

Thursdays, 13:15 - 15:00, room U1.191, Biozentrum or via ZOOM for selected lectures

- 29.02. *“Basic concepts of solution NMR spectroscopy”*  
**Prof. Sebastian Hiller**, Biozentrum, University of Basel
- 07.03. *“Applications of solution NMR spectroscopy”*  
**Prof. Sebastian Hiller**, Biozentrum, University of Basel
- 14.03. *“Single-molecule FRET, nanopores, and their applications in biology”*  
**Prof. Sonja Schmid**, Dep. Chemistry, University of Basel
- 21.03. *“EPR spectroscopy on native paramagnetic centers and spin labels in biomolecules”*  
**Prof. Gunnar Jeschke**, ETH Zürich
- 28.03. OSTERN
- 04.04. *“Introduction to mass spectrometry-based proteomics”*  
**Dr. Alexander Schmidt**, Biozentrum, University of Basel
- 11.04. Project presentations by students (sign-up on ADAM) **room U1.197**
- 18.04. *“RAS dynamics, self-assembly, and druggability at membrane surfaces: Lessons from molecular simulations and experiments”*  
*(on ZOOM)*  
**Prof. Dr. Alemayehu (Alex) Gorfe**, UT Health, Houston, U.S.A
- 25.04. *“MS and NMR-metabolomics – a tool to study dynamics of metabolism”*  
**Prof. Dr. Sofia Moco**, Vrije Universiteit Amsterdam **room U1.197**
- 02.05. *“Weighing-up protein assemblies with mass spectrometry and mass photometry”* *(on ZOOM)*  
**Prof. Justin Benesch**, University of Oxford
- 09.05. AUFFAHRT
- 16.05. *“Macroscopy fluorescence lifetime FRET monitors drug-target engagement in vivo”* *(on ZOOM)*  
**Prof. Margarida Barroso**, Director AMC imaging core facility, Albany Medical College, NY, U.S.A.
- 23.05. *Project presentations by students (sign-up on ADAM)*
- 30.05. *“Principles and challenges in (high-throughput) metabolomics”*  
**Prof. Mattia Zampieri**, DBM, University of Basel