

## Biomolecular mechanisms unraveled by solution NMR spectroscopy

*Tuesday 14 January 2020 12:00 (15 minutes)*

Solution NMR spectroscopy is a matured technique to study structure, function, and dynamics of biomacromolecules at atomic resolution. Of particular value in the current era of structural biology are integrative approaches to combine data from multiple structure biology techniques to integrated molecular models. I will give an overview of ongoing projects in my laboratory at Biozentrum Basel with selected examples where solution NMR spectroscopy is fruitfully applied to unravel highly relevant molecular mechanism. These examples include the characterization and development of novel antibiotics, the regulation of a cellular IDPs by molecular chaperones, as well as to substrate recognition by a ~1 MDa kinase complex. These and related projects will particularly benefit from the sensitivity and resolution gains provided by the upcoming 1.2 GHz magnet.

**Author:** HILLER, Sebastian (Universität Basel)

**Presenter:** HILLER, Sebastian (Universität Basel)

**Session Classification:** NMR session 2