

Structure and Dynamics of biological macromolecules.

Tuesday & Thursday, 18:15-20:00, INF 360, BHS
(used to be Friday 8-10am)

Bachelor (4th semester)
Summer semester 2013

11.6	Irmir Sinning / Klemens Wild	Protein structure
13.6	Jörg Langowski	Nucleic acid structure
18.6	Jörg Langowski	Interactions & forces in biomolecules
20.6	Irmir Sinning / Klaus Scheffzek	X-Ray crystallography (I)
25.6	Irmir Sinning / Klaus Scheffzek	X-Ray crystallography (II)
27.6	Stefan Fischer	Flexibility and dynamics of proteins
2.7	Rebecca Wade	Electrostatics, solvation and protein interactions
4.7	Stefan Fischer	Statistical mechanics of ligand binding
9.7	Alexander Gansen	Optical spectroscopy (I)
11.7	Jörg Langowski	Optical spectroscopy (II)
16.7	Bernd Simon	NMR spectroscopy (I)
18.7	Bernd Simon	NMR spectroscopy (II)
23.7	Jörg Langowski	Single molecule biophysics
25.7	exam	

The lecture is suitable for students of biology, physics and chemistry. It presents basic principles of the structure and dynamics and interactions of biological macromolecules and introduces the techniques used to investigate them (computer simulations, X-ray crystallography, NMR and solution biophysical techniques). The courses will be in English.