### Seminar "Protein Expression, Purification, Characterization"- 2018 IRTG "Obesity Mechanisms"



# Tuesday, 18<sup>th</sup> of September (AG Prof. Annette Beck-Sickinger) PART I

Venue: Seminar room 410, 4<sup>th</sup> floor, Brüderstr. 34, Biochemistry and Bioorganic Chemistry

9:00 - 10:30/	Lectures: Cloning, protein expression (E.coli, mammalian cells,
10:45 – 11:45	in vitro expression systems) and purification
11:45 - 12:15	Guided lab tour and practical demonstration on protein
	expression (Kathrin Bellmann-Sickert)

# Tuesday, 18<sup>th</sup> of September (AG Prof. Norbert Sträter, Renato Weiße) PART I

Venue: Seminar room 2, BBZ

13:00 – 14:30	Lecture: Introduction to protein crystal structure determination
14:40 - 17:00	Practical course: Using crystallographic models for biochemical
	research

#### Wednesday, 10<sup>th</sup> of October (AG Prof. Norbert Sträter, Renato Weiße)

Venue: 1st floor, Laboratory work group Prof. Sträter, BBZ

13:00 – 17:00 Lecture: Brief introduction in theory about crystallization
Physical and chemical properties of crystals
Practical course: Crystallization – model construction and
structure visualization

# Wendesday, 17<sup>th</sup> of October (AG Dr. Dr. John Heiker) PART III

Venue: Seminar room 410, 4<sup>th</sup> floor, Brüderstr. 34, Biochemistry and Bioorganic Chemistry

9:00 - 10:30/	Lecture: Protein analytics, Edman sequencing, MS/MS methods
10:45 – 12:15	Practical course: MALDI MS