

# **FOCAL POINT „PROTEINE IN DER BIOMEDIZIN“ -PROTEINS IN BIOMEDICINE**

**Sommersemester 2022 VERSION of 28. 3. 2022**

**6. Semester Bachelor and 2. Semester Master**

**Special Lecture "Current Methods of Protein Biochemistry and Structural Biology-  
Expression, Purification and Structural Analysis of Proteins"  
(Coordinator Raphael Stoll)**

Wednesday 11:15-12:45, Biophysics Lecture Hall NDEF04-397

<b>Date</b>	<b>Lecturer</b>	<b>Subject</b>
06. 04. 22	Mathias Lübben	Preliminary Talk Cloning and Cell Biological Methods
13. 04. 22	Mathias Lübben	Protein Expression in <i>Escherichia coli</i> and <i>Pichia pastoris</i>
20. 04. 22	Ingrid Vetter	Protein Folding
27. 04. 22	Svitlana Rozanova	Separation of Proteins and Peptides
04. 05. 22	Svitlana Rozanova	Protein Purification and Quantification
11. 05. 22	Eckhard Hofmann	Introduction to Protein Structure Determination I
18. 05. 22	Raphael Stoll	Introduction to Protein Structure Determination II
25. 05. 22	Till Rudack	Bioinformatic Methods of Protein Modelling – Use of Artificial Intelligence
01. 06. 22	Katalin Barkovits	Mass Spectrometry of Proteins
04. 06. 22- 12. 06. 22	Whitsun	University Holiday
15. 06. 22	Martin Eisenacher	Bioinformatic Methods in Proteomics
22. 06. 22	Klaus Gerwert, (Carsten Kötting)	Introduction to UV/Vis-, Raman- und FTIR- Spectroscopy
29. 06.22	Klaus Gerwert	Biophotonics and Spectral Histopathology
06. 07. 22	Carsten Kötting	Spacio-temporally Resolved Fluorescence Spectroscopy
13. 07. 22	Axel Mosig, (Fred Großerüschkamp)	Bioinformatic Analysis of Spacially Resolved Spectral Data

t. b. a. Written Exam

t. b. a. Retake Written Exam

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**Sommersemester 2022** **VERSION of 28. 3. 2022**

### **2. Semester Master**

#### **Special Lecture in the Focal Point Programme: "Proteins in Signal Transduction and Energy Conversion"**

**(Coordinator Mathias Lübben)**

Friday 13:00-14:30, Biophysics Lecture Hall NDEF04-397

22. 04. 22	Mathias Lübben	Introduction to Signal Transduction
29. 04. 22	Mathias Lübben	- Architecture of Membranes und Membrane Proteins –Transporters and Channels I
06.05.22	Eckhard Hofmann	The Role of Membrane Transporters II
13.05.22	Katalin Barkovits	Receptors and Ion Channels in the Context of Neurological Diseases
20. 05. 22	Ingrid Vetter	Domains in Signal Transduction
27. 05. 22	Carsten Kötting	Principles of GTP Binding Proteins- The Superfamily of Ras Proteins
03. 06. 22	Carsten Kötting	Kinases and Phosphatases: Structure-Function Relationships
04. 06. 22- 12. 06. 22	Whitsun	University Holiday
17. 06. 22	Till Rudack	Structure and Function of the Proteasome
24. 06. 22	Raphael Stoll	Structure and Function of ATP synthase
01. 07. 22	Frederick Großerüschkamp	Signal Transduction in Cancer
08. 07. 22	N. N.	Diabetes mellitus / Basics of Immunology
15. 07. 22	Frederick Großerüschkamp	Immunological Strategies to Fight Cancer

t. b. a. Written Exam

t. b. a. Retake Written Exam