

**Current Methods of Protein Biochemistry and Structural Biology-Expression, Purification  
and Analysis of Proteins Wednesday 11:15-12:45 NDEF04/397**

| Date               | Lecturer                          | Subject                                                                     |
|--------------------|-----------------------------------|-----------------------------------------------------------------------------|
| 05.04.2023         | Mathias Lübben                    | Preliminary Talk Cloning and Cell Biological Methods                        |
| 12.04.2023         | Mathias Lübben                    | Protein Expression in <i>Escherichia coli</i> and <i>Pichia pastoris</i>    |
| 19.04.2023         | Svitlana Rozanova                 | Separation, Purification and Quantification of Proteins and Peptides        |
| 26.04.2023         |                                   |                                                                             |
| 03.05.2023         | Ingrid Vetter                     | Protein Folding                                                             |
| 10.05.2023         | Till Rudack                       | Bioinformatic Methods of Protein Modelling – Use of Artificial Intelligence |
| 17.05.2023         | Raphael Stoll                     | Introduction to Protein Structure Determination I - NMR                     |
| 24.05.2023         | Eckhard Hofmann                   | Introduction to Protein Structure Determination II - X-ray                  |
| 31.05.2023         | Witsun                            | University holiday                                                          |
| 07.06.2023         | Carsten Kötting                   | Introduction to UV/Vis-, Raman- und FTIR-Spectroscopy                       |
| 14.06.2023         | Carsten Kötting                   | Spatio-temporally Resolved Fluorescence Spectroscopy                        |
| 21.06.2023         | Fred Großerüschkamp               | Biophotonics and Spectral Histopathology                                    |
| 28.06.2023         | Axel Mosig, (Fred Großerüschkamp) | Bioinformatic Analysis of Spatially Resolved Spectral Data                  |
| 05.07.2023         | Katalin Barkovits                 | Mass Spectrometry of Proteins                                               |
| 12.07.2023         | Martin Eisenacher                 | Bioinformatic Methods in Proteomics                                         |
| 21.7.23, 10-12 Uhr | HNC 10                            | Written Exam                                                                |
| 15.9.23, 10-12 Uhr | HNC10                             | Retake Exam                                                                 |

Lecture series "Proteins in Biomedicine" Fridays 13:00-14:30 ND 04/397

| Date       | Lecturer                    | Subject                                                                                        |
|------------|-----------------------------|------------------------------------------------------------------------------------------------|
| 07.04.2023 |                             | Good Friday                                                                                    |
| 14.04.2023 |                             |                                                                                                |
| 21.04.2023 | Raphael Stoll               | Biomolecular NMR on medically-relevant proteins                                                |
| 28.04.2023 | Eckhard Hofmann             | Structural Enzymology: Unravelling Protein Function from a Protein                             |
| 05.05.2023 | Katalin Barkovits           | A look behind the scenes: proteomics in medical research                                       |
| 12.05.2023 | Till Rudack                 | Calculating the Secrets of Life: Structure, Dynamics, and Function of Vital Molecular Machines |
| 19.05.2023 |                             |                                                                                                |
| 26.05.2023 | Carsten Kötting             | Chemical tools for studying proteins using IR spectroscopy                                     |
| 02.06.2023 |                             | Whitsun holidays                                                                               |
| 09.06.2023 | Jörn Güldenhaupt            |                                                                                                |
| 16.06.2023 | Dirk Tischler               | Functional annotation of biocatalysts                                                          |
| 23.06.2023 | Sacha Baginsky              |                                                                                                |
| 30.06.2023 | Mathias Lübben              | Mechanistic studies on ion conducting microbial retinal proteins                               |
| 07.07.2023 | Frederick<br>Großerüschkamp | Label-free infrared imaging for cancer diagnostics and prognostics                             |
| 14.07.2023 |                             |                                                                                                |