



UNIVERSITÄT  
LEIPZIG

Fakultät für Lebenswissenschaften, Institut für Biochemie

# “Modeling Proteins guided by Electron Paramagnetic Resonance and Mass Spectrometry”

11.-14.12.2018, 01 PM - 04 PM

## **Module 1: Molecular Modeling**

Prof. Jens Meiler (Vanderbilt University/USA)

*\*Introduction to Structural Biology*

*\*Protein Structure Prediction with Rosetta*

*\*Protein Structure Prediction from EPR DATA*

17.-19.12.2018, 09 AM - 12 AM

## **Module 2: Biomolecular electron paramagnetic resonance spectroscopy (EPR)**

Prof. Eric Hustedt (Vanderbilt University/USA)

*\*Introduction to Site-Directed Spin Labeling (SDSL) and Electron Paramagnetic Resonance (EPR) Spectroscopy*

*\*Distance Measurements and Pulsed EPR*

*\*Discussion of Significant EPR Papers*

17.-19.12.2018, 1 PM - 4 PM

## **Module 3: Molecular Dynamics MS-based Modeling**

Prof. Steffen Lindert (Ohio State University/USA)

*\*Molecular Mechanics*

*\*Molecular Dynamics*

*\*Protein Structure Prediction from MS data*

**11.-19.  
December  
2018**

Seminar Room 2, 4th Floor,  
Brüderstraße 34, Leipzig

**Scientific and Methods Module  
for PhDs, PostDocs and Students.**

Please register by sending an E-Mail to  
[albrecht@uni-leipzig.de](mailto:albrecht@uni-leipzig.de).

The research lecture is funded  
by the Max-Kade Foundation.