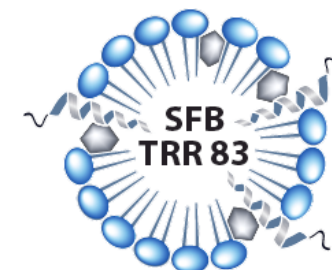


TRR 83 Transregional Collaborative Research Centre 83 - Heidelberg - Bonn - Dresden

Molecular Architecture and Cellular Functions of Lipid/Protein Assemblies



## Summer School Dresden 2013, April 16 – 18

| Date   | Time          | Group   | Presentation   | Practical course   | Location |
|--------|---------------|---|--|--|----------|
| Apr 16 | 12:00         | Beginning of the Summer School, Get together with light lunch |  |  | BIOTEC   |
| Apr 16 | 13:00 - 18:00 | W.B. Huttner's group (Michaela Wilsch-Bräuninger, Alex Sykes) | Extracellular membrane particles and electron microscopy                                 | Negative staining of extracellular membrane particles  | MPI-CBG  |
| Apr 17 | 9:00 - 12:30  | Kai Simons' group (Kai Simons, Erdinc Sezgin, James Saenz)    | History of Membrane Heterogeneity (30 min)   | Practical Module 1: Phase Separated Giant Unilamellar Vesicle (GUV) Preparation (1.5 h) Practical Module 2: Visualization of phases in GUVs with 2-photon microscopy and polarity sensitive probes (2 h) | MPI-CBG  |
| Apr 17 | 14:00 - 18:00 | Andrej Shevchenko's group (Andrej Shevchenko, Cyrus Papan)    | Shotgun lipidomics on the hybrid quadrupole Orbitrap tandem mass spectrometer Q Exactive | Acquisition of lipidome profiles and quantitative interpretation of datasets   | MPI-CBG  |
| Apr 17 | 19:00         | Dinner at Steak House Estancia                                |  |  | Artushof |

|           |               |  |  |  |        |
|-----------|---------------|--|--|--|--------|
| Apr 18    | 9:00 - 9:30   | Denis Corbeil  | Identification of distinct membrane microdomains (Denis Corbeil)                               |  | BIOTEC |
| Apr 18    | 9:30 - 12:00  | Hoflack group (Bernard Hoflack, Christian Niehage)             | In vitro approaches to identify protein complexes interacting with membranes (Bernard Hoflack) | Principles of label free quantitative proteomics   | BIOTEC |
| Apr 18    | 13:00 - 16:00 | Uenal Coskun (Uenal Coskun, Michal Grzybeck, Theresia Gutmann) | Methods to measure protein-lipid interactions  | Electrochemicalluminescence and ELISA on liposomes | PLID   |
| Departure |               |  |  |  |        |

BIOTEC – Biotechnologiezentrum, Tatzberg 47-49

MPI-CBG – Max Planck Institute of Molecular Cell Biology and Genetics, Pfotenhauerstraße 108

PLID - Paul Langerhans Institute Dresden, Fetscherstraße 74

Artushof – Fetscherstraße 30