TRR 83 Transregional Collaborative Research Centre 83
Heidelberg - Bonn - Dresden
Molecular Architecture and Cellular Functions of Lipid/Protein Assemblies

2. International SFB/Transregio 83 Symposium

Molecular Architecture and Cellular Functions of Lipid/Protein Assemblies

Heidelberg, September 26 - 27, 2016

Program

Scientific Organizers:

Thomas Söllner
Britta Brügger

Venue

BioQuant Center
Lecture Hall 041, Ground Floor
Im Neuenheimer Feld 267
Ruprecht-Karls-Universität Heidelberg
69120 Heidelberg

Participation in the meeting is free of charge

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Monday – September 26, 2016	
Session I:	**Lipids in protein folding/function**
8.30 – 9.00 a.m.	*Registration*
9.00 – 9.10 a.m.	*Welcome* Thomas Söllner
9.10 – 9.55 a.m.	**Plenary lecture** Membrane Protein Folding: Biology Meets Thermodynamics **Stephen H. White** University of California, Irvine
9.55 – 10.25 a.m.	Lipid-mediated protein-protein interactions **Wonhwa Cho** University of Illinois, Chicago
10.25 – 10.55 a.m.	How to build a power plant: Mitochondrial protein biogenesis **Peter Rehling** University Medical Center Göttingen
10.55 – 11.30 a.m.	*Coffee break and poster session*
11.30 – 12.00 a.m.	Pas de deux: Allosteric regulation of growth factor receptors by lipids **Ünal Coskun** Paul Langerhans Institute Dresden
12.00 – 12.30 p.m.	Intracellular endo cannabinoid trafficking and Hedgehog signaling **Suzanne Eaton** MPI of Molecular Cell Biology and Genetics, Dresden
12.30 – 1.00 p.m.	GTPase activation and lipids **Irmi Sinning** Heidelberg University
1.00 – 2.00 p.m.	*Lunch*
Session II:	**(Ultra) structural investigation of protein-lipid interactions**
2.00 – 2.30 p.m.	The molecular toolbox for studying lipids in cells **Carsten Schultz** EMBL Heidelberg
2.30 – 3.00 p.m.	Approaching molecular architecture and cellular functions of lipid-protein interactions with super-resolution optical microscopy **Christian Eggeling** University of Oxford
3.00 – 3.30 p.m.	Electron Microscopy Approaches to Studying Lipid-Protein Interactions **Tom Walz** Harvard Medical School
3.30 – 4.00 p.m.	*Coffee break and poster session*
4.00 – 4.30 p.m.	What are lipid transfer proteins for? **Tim Levine** University College London
4.30 – 5.00 p.m.	SMP-domain proteins in lipid homeostasis **Karin Reinisch** Yale School of Medicine, New Haven
5.00 – 5.30 p.m.	Modeling lipid droplets on ER tubules **Michael Kozlov** Sackler Faculty of Medicine, Tel Aviv
7.00 p.m.	*Dinner (Guest speakers and TRR 83 project leaders only)*

Tuesday – September 27, 2016	
Session III:	**Lipids in protein transport**
9.00 – 9.45 a.m.	**Plenary lecture** Molecular mechanisms of endosome biogenesis, tethering and fusion **Marino Zerial** MPI of Molecular Cell Biology and Genetics, Dresden
9.45 – 10.15 a.m.	PIP-mediated recruitment of membrane trafficking components to the endosome and lysosome **Scott Emr** Cornell University, Ithaca
10.15 – 10.45 a.m.	Diffusional barriers dictate receptor responsiveness and kinase activity during phagocytosis **Sergio Grinstein** University of Toronto
10.45 – 11.15 a.m.	*Coffee break and poster session*
11.15 – 11.45 a.m.	Unconventional Protein Secretion: Membrane Pore Formation at Protein-Lipid Interfaces **Walter Nickel** Heidelberg University
11.45 – 12.15 p.m.	Phosphatidylinositol Transfer Proteins and Neural Stem Cell Function in the Mouse **Vytas Bankaitis** Texas A&M Health Service Center, Bryan
12.15 – 12.45 p.m.	Regulation of membrane traffic by phosphatidylinositol 3-phosphate and its interacting proteins **Harald Stenmark** Oslo University Hospital
12.45 – 1.45 p.m.	*Lunch*
1.45 – 2.15 p.m.	Cryo-EM methods to study the structure of coat proteins assembled on membranes **John Briggs** EMBL Heidelberg
2.15 – 2.45 p.m.	Regulation of plasma membrane organization by active processes **Satajit Mayor** National Centre for Biological Sciences, Bangalore
Session IV:	**Lipids in health and disease**
2.45 – 3.15 p.m.	Class II fusion proteins and interactions with lipids **Félix Rey** **I**nstitut Pasteur, Paris
3.15 – 3.45 p.m.	*Coffee break and poster session*
3.45 – 4.15 p.m.	Lipids and proteins at the HIV-1 assembly site **Hans-Georg Kräusslich** University Hospital Heidelberg
4.15 – 4.45 p.m.	Synuclein-lipid interactions and Parkinson's **Harvey McMahon** University of Cambridge
4.45 – 5.15 p.m.	Recognition of lipid phase transition by the innate immune systems and novel therapeutic strategies for atherosclerosis **Eicke Latz** University of Bonn
7.00 p.m.	*Dinner (Guest speakers and TRR 83 members only)*