

Joint meeting between Indo-German Max Planck Center on Lipid Research and Transregional Collaborative Research Centre 83

February 4-6, 2015
NCBS, Lecture Hall 'Haapus'

Wednesday, February 4

12:00 *Lunch*

12:50 Introduction by Jitu Mayor

Membrane Structure, Chair: Thomas Söllner

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|-------|---------------------------------|---|
| 13:00 | Kai Simons | Lipid rafts and Lipidomics |
| 13:30 | Jitu Mayor | Organization of microdomains in membranes; role of lipids |
| 14:00 | Madan Rao | Organization of microdomains in membranes; role of lipids |
| 14:30 | <i>Coffee break</i> | |
| 15:00 | Marino Zerial | Analysis of the mechanisms of vesicle tethering and fusion |
| 15:30 | Hans-Georg Kräusslich | The HIV-1 assembly microdomain |
| 16:00 | Yvonne Hackmann (Sinning group) | Membrane protein expression in the eyes of transgenic Drosophila |
| 16:30 | Eleni Dimou (Nickel group) | A novel experimental system to directly visualize FGF2 translocation across the plasma membrane |
| 16:45 | Sebastian Unger (Nickel group) | Structure-Function Elucidation of Membrane-Inserted FGF2 Oligomers |
| 18:30 | <i>Dinner on Campus</i> | |



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Thursday, February 5

Membrane lipids, Chair: Jitu Mayor

- 09:30 Konrad Sandhoff Membrane lipids regulate liposomal sphingolipid catabolism, their enzymes and lipid binding proteins
- 10:00 M.M. Panicker Lipid bodies in embryonic stem cells: functional significance
- 10:30 Ünal Coskun Lipids as allosteric regulators for Growth Factor Receptor Signalling
- 11:00 *Break*
- 11:30 Alf Honigmann Spatiotemporal characterization of lipid probes in the plasma membrane with optical nanoscopy
- 12:00 Anke Penno (Thiele group) Metabolism and Localisation of 1-Deoxy-sphingolipids
- 12:30 Anura Kurpad (**attendance not confirmed**) Fatty acids and choline; function in human embryonic development
- 13:00 Eicke Latz Recognition of cholesterol phase transition during atherogenesis
- 13:30 *Lunch*

Identification of new lipids, Chair: Marino Zerial

- 14:30 Andrej Shevchenko Discovery of new lipid molecules by shotgun mass spectrometry and LC-MS/MS
- 15:00 André Nadler Photochemical tools for studying the role of lipids in cellular processes
- 15:30 Suzanne Eaton Endocannabinoids in the Hedgehog pathway (**to be confirmed**)
- 16:00 Temo Kurzchalia Novel glycolipids in *C. elegans* involved in the transport of cholesterol
- 16:30 Marie Paradis (Hoch group) Characterization of saposin function in lysosomes in *Drosophila*
- 17:00 Poster session
- 18:30 *Dinner on Campus*



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Friday, February 6

Role of lipids in disease, Chair: Eli Knust

09:30	Raghu Padinjat	The function of phospholipase D and its lipid products in regulating apical domain homeostasis
10:00	Sarita Hebbar (Knust group)	Lipids and retinal degeneration in Drosophila
10:30	David Paul (Bartenschlager group)	Viral and cellular determinants of hepatitis C virus membranous replication factories
11:00	Varadha Sundaramurthy	Lipids at the host-pathogen interface
12:00	<i>Lunch</i>	
13:00-15:00	Lipid Center specific topics and facility tours (in parallel)	



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