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

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  Coffee break
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  Dinner on Campus
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 Kurzhalia  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
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  Lunch

13:00-15:00  Lipid Center specific topics and facility tours (in parallel)