



EMBO workshop on Cell Membrane Organization and Dynamics
Bilbao, June 3-7, 2006

Supported by ELIFE



Meeting Site: School of Engineering • "ETS Ingenieros Industriales" • Alameda de Urkijo • 48013 Bilbao
Tel: 946 012 000 • Fax: 946 014 296

Saturday, 3 June 2006

Reception 17-18:00 (drinks)

General Discussion about Membrane Organisation 18-19:30

Each participant introduces key issues in the field
that are waiting for answers

Kai Simons (chair)

**Gerald Feigenson
Gerrit van Meer
Debbie Brown
Sean Munro**

Dinner at Abba Parque Hotel



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Sunday, 4 June 2006

Membrane Model Systems - Morning Session 9-12:30

Chair: Joshua Zimmerberg

Gerald Feigenson

"What can we do with a phase diagram model of the plasma membrane?"

John Silvius

„Lipid microdomains in model and biological membranes: seeking the connections“

Erwin London

"How Lipid Structure Controls Ordered Domain Formation in Membranes"

Coffee

Patricia Bassereau

„Membrane nanotubes - Role of curvature in lipid sorting“

Winchil Vaz

"Are Cholesterol-rich POPC Bilayers a Liquid-Ordered Phase?"

Reinhard Lipowsky

"Interplay of membrane composition and curvature"

Lunch

16:00 - 18:00 Posters and Beer

Membrane Dynamics - Afternoon Session 18-20:00

Chair: Debbie Brown

Pico Caroni

"Membrane-associated proteins to regulate the cell cortex in motility and morphogenesis"

Anne Kenworthy

"Raft dynamics: what lateral diffusion can tell us about raft structure and lifetime"

Amit Chattopadhyay

„Dynamic Confinement of Human Serotonin-1A Receptors in the Plasma Membrane Induced upon Cholesterol Depletion“

Dinner at Abba Parque Hotel



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Monday, 5 June 2006

Membranes and Signalling - Morning Session 9-12:00

Chair: Marino Zerial

Ron Vale

„Membrane dynamics and the formation of an immunological synapse“

Thomas Harder

„Plasma membrane domains harbour the signalling machinery to activate T lymphocytes“

coffee

Ken Jacobson

"Nanoscale signal transduction across the plasma membrane"

Kees Jalink

„PIP2 as a second messenger: spatial and temporal aspects“

Gerrit van Meer

“Regulation of organelle acidification by glycolipids“

15:00 - 17:00 Posters

Endocytosis - Afternoon Session 17-20:30

Chair: Satyajit Mayor

Ari Helenius

„Lipid domains in virus entry“

Rob Parton

Functional association of caveolins with lipid droplets

Debbie Brown

„Non-Clathrin-Mediated Endocytosis of ErbB2 in Geldanamycin-Treated Human Breast Cancer Cells“

Coffee

Graca Raposo

"Exosomes and Melanosomes : Adaptations of the endocytic pathway in health and disease"

Jean Gruenberg

„Intra-endosomal membrane dynamics“

Marino Zerial

"Quantitative analysis of endosome dynamics"

Dinner in town



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Tuesday, 6 June 2006

Exocytosis and fusion - Morning Session 9-13:00

Chair: Ari Helenius

Gunnar von Heijne

„Recognition of transmembrane helices by the ER translocon“

Howard Riezman

Title

Sean Munro

„The Arf-like GTPases and their role in organelle identity“.

Antonella de Matteis

Title

Coffee

Joshua Zimmerberg

„Biophysical mechanisms of membrane fusion“

James Rothman

"Regulation of SNAREs"

Lunch

Lipid-protein interactions - Afternoon Session 14-15:30

Chair: Ken Jacobson

Chiara Zurzolo

„Membrane clustering and apical sorting of GPI-anchored proteins in polarized epithelial cells“

Satyajit Mayor

„Mechanism for the segregation of lipid-anchored proteins in living cell membranes“

Petra Schwille

"Exploring membrane organization by single molecule methods"

15:30 - 17:00 Posters

Visit of the Guggenheim Museum

Dinner at Abba Parque Hotel



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Wednesday, 7 June 2006

Membrane Lipids - Morning Session 9-12:00

Chair: Felix Goñi

Christoph Thiele

„Storage of neutral lipids in lipid droplets“

Elina Ikonen

„Do sterols interact preferentially with sphingolipids in cell membranes?“

Joost Holthuis

„Origin and significance of membrane asymmetry in yeast“

Coffee

Teymuraz Kurzchalia

„The functional apical surface of intestinal cells in *C. elegans* requires branched chain fatty acids“

Hans-Georg Krausslich

Title

Departure

All talks are 25 min. + 5 min. discussion