



**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  
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**Saturday, 3 June 2006**

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**Reception 17-18:00**

**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  
Aki Kusumi  
Debbie Brown  
Sean Munro**

*Dinner at Abba Parque Hotel*



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**Sunday, 4 June 2006**

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**Membrane Model Systems - Morning Session 9-12:30**

**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**

**Aki Kusumi**

**Title**

**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**

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**Membranes and Signalling - Morning Session 9-12:00**

**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**

**Ari Helenius**

Title

**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**

Title

**Marino Zerial**

"Quantitative analysis of endosome dynamics"

*Dinner in town*



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**Tuesday, 6 June 2006**

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**Exocytosis and fusion - Morning Session 9-13:00**

**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**

Title

**James Rothman**

"Regulation of SNAREs"

*Lunch*

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

**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**

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**Membrane Lipids - Morning Session 9-12:00**

**Christoph Thiele**

**Title**

**Elina Ikonen**

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

**Joost Holthuis**

„Origin and significance of membrane asymmetry in yeast“

*Coffee*

**Teymuraz Kurzchalia**

**Title**

**Hans-Georg Kraeusslich**

**Title**

*Departure*

All talks are 25 min. + 5 min. discussion