



Workshop on biomaterials and their interactions with biological and model membranes Salou 2015

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29

days since
Conference start

Program

List of [participants](#)

See programs of previous meetings: [Program-2011](#) [Program 2013](#) [Program 2014](#)

Conference Venue

Salou, Spain



Hotel Magnolia****



Hotel Blaumar****



Deadlines

Abstract submission:

31 July 2015

Registration:

19 October 2015

- 09:00 to 09:30 - Registration

Morning session

- 09:30 to 10:00 - Thomas Heimburg (Niels Bohr Institute, University of Copenhagen, Denmark)
 - [Mechano-capacitive properties of polarized membranes](#)
- 10:15 to 10:45 - Xavier Daura (Institut de Biociències i de Biomedicina (IBB), UAB, Spain)
 - [Hydroxylation of glycerol dialkyl glycerol tetraethers may enhance membrane fluidity in Archaea adapted to cold environments](#)
- 11:00 to 12:00 - Coffee Break and Discussion
- 12:00 to 12:30 - Vadim Frolov (University of the Basque Country, Leioa, Spain)
 - [Nanomechanics of membrane fission](#)

Lunch

- 13:00 to 15:00 - Lunch Hotel Magnolia

Afternoon session

- 15:00 to 15:30 - Guojie Zhang (Institute for Theoretical Physics, Georg-August University, Göttingen, Germany)
 - [Free energy landscape of dynamin-mediated membrane fission: a Wang-Landau sampling approach](#)
- 15:45 to 16:15 - Vladimir Baulin (Universitat Rovira i Virgili, Tarragona, Spain)
 - [Translocation of hydrophobic nanoparticles through lipid membranes](#)
- 16:30 to 17:30 - Coffee Break
- 17:30 to 18:30 - Jing Yang (Technical University of Catalonia-Barcelona Tech, Barcelona, Spain)
 - [Free energy landscapes of metal ions at phospholipid membrane surfaces](#)
- 18:30 to 19:30 - Poster presentations (5 min per poster)

Poster session

- 18:30 to 20:00 - Discussions of posters

Dinner

1 September 2015

[Register](#)

Dates

4th:
[19 - 21 October 2015](#)

3d:
[31 May - 3 June 2014](#)

2nd:
[24-26 February 2013](#)

1st:
[19-23 September 2011](#)

Photos-2011



Site owners

Vladimir Baulin

□ 20:00 to 21:00 - Hotel Magnolia

20 October 2015

Morning session

- 09:30 to 10:00 - Mario Brameshuber (Institute of Applied Physics, Vienna University of Technology, Vienna, Austria)
 - [Direct imaging of nanoplatforms in the live cell plasma membrane](#)
- 10:15 to 10:45 - Jean Baptiste Fleury (Universitat des Saarlandes, Saarbruecken, Germany)
 - [Microfluidic platform to study dynamically the interaction between a single nano-object and a phospholipid bilayer](#)
- 11:00 to 12:00 - Coffee Break and Discussion
- 12:00 to 12:30 - Dmitry Fedosov (Forschungszentrum Jülich, Jülich, Germany)
 - [Red blood cell mechanics and membrane fluctuations - passive versus active](#)

Lunch

- 13:00 to 15:00 - Lunch Hotel Magnolia

Afternoon session

- 15:00 to 15:30 - Lev Sarkisov (School of Engineering, The University of Edinburgh, UK)
 - [The patchy story of striped nanoparticles: a molecular simulation perspective](#)
- 15:45 to 16:15 - Thorsten Auth (Institute of Complex Systems and Institute for Advanced Simulation, Forschungszentrum Jülich, Germany)
 - [Receptor-mediated membrane-nanoparticle interaction](#)
- 16:30 to 17:30 - Coffee Break
- 17:30 to 18:30 - Daniel Ruiz-Molina (Institut Catala de Nanociencia i Nanotecnologia, Barcelona, Spain)
 - [Multifunctional bioinspired catechol-based nanoparticles](#)
- 18:45 to 19:15 - Marie Bachelet (Imperial College London, UK)
 - [pH-responsive hybrid gold nanoparticles for intracellular delivery applications](#)

Poster session

- 18:30 to 20:00 - Discussions of posters

Dinner

- 20:00 to 21:00 - Hotel Magnolia

21 October 2015

Morning session

- 09:30 to 10:00 - Eva Sevcsik (Institute of Applied Physics, Vienna University of Technology, Vienna, Austria)
 - [Protein micropatterning as a tool to decipher plasma membrane organization and protein interactions](#)
- 10:15 to 10:45 - Marco Werner (Leibniz-Institut für Polymerforschung Dresden, Germany)
 - [Theory and Simulation of Homopolymers Interacting with Lipid Bilayers: From Critical Adsorption to Pore Formation](#)
- 11:00 to 12:00 - Coffee Break and Discussion
- 12:00 to 12:30 - Guilherme Volpe Bossa (North Dakota State University, Fargo, USA)
 - [The electrostatic contribution to the line tension between lipid membrane domains](#)

Lunch

- 13:00 to 15:00 - Lunch Hotel Magnolia

Afternoon session

- 15:00 to 15:30 - Krisztina Fehér (University of Ghent, Ghent, Belgium)
 - [Targeted delivery of peptidoglycan immunomodulators using liposomal carriers:](#)

NMR study of the lipid encapsulation

- 15:45 to 16:15 - Sowmya Purushothaman (Department of Physics, University of Cambridge, Cambridge, UK)
 - *Dependence of Norfloxacin diffusion across bilayers on lipid composition*
- 16:30 to 17:30 - Coffee Break
- 17:30 to 18:30 - David Mainwaring (Swinburne University of Technology, Melbourne, Australia)
 - *Polymer hydrogels as models for bacterial ingress, microstructuring and colonisation*

Poster session

- 18:30 to 20:00 - Discussions of posters

Dinner

- 20:00 to 21:00 - Hotel Magnolia

Posters

- Caroline Moerke (University Medical Center Rostock, Germany)
 - *Caveolae formation in osteoblasts membranes on structured titanium surfaces - an attempted phagocytosis of micro-pillars*
- Christian Lamberz (Deutsches Zentrum für neurodegenerative Erkrankungen, Bonn, Germany)
 - *3D-Visualization of lipid localization on nanoscale by click chemistry and Transmission Electron Microscopy*
- Fatima Ali (University of Lahore, Pakistan)
 - *Diabetic mesenchymal stem cells therapy for diabetic heart*
- Harvey Tawfik (Universität des Saarlandes, Saarbrücken, Germany)
 - *Interaction between apatite nanoparticles and a phospholipid bilayer*
- Niels Geudens (Ghent University, Belgium)
 - *Membrane interactions of cyclic lipodepsipeptides*
- Sivaramkrishnan Ramadurai (Dublin City University, Dublin, Ireland)
 - *PP-50, pH sensitive polymer interaction with DOPC membrane using Fluorescence Lifetime Correlation Spectroscopy (FLCS) and Electrochemical Impedance spectroscopy (EIS)*
- Astrid Stroobants (University of Edinburgh, UK)
 - *Quantifying ligand snorkeling and membrane partitioning of anionic nanoparticles: effect of ligand length and arrangement*
- Kiera Flynn (Deakin University, Melbourne, Australia)
 - *The incorporation of docosahexaenoic acid into supported lipid bilayers and its effect on their viscoelastic properties: a Quartz Crystal Microbalance study*
- Vlad Vasilca (University of Leeds, Leeds, UK)
 - *Nanoscale spherical-supported membranes as novel platforms for phage display screening*
- Shiqi Wang (Imperial College London, UK)
 - *Synthesis and characterization of functional biomimetic polymers for intracellular delivery*
- Radka Petkova (Unilever Research and Development, Port Sunlight, UK)
 - *Mechanism of action of biolytic agents on model phospholipid-sterol systems*
- Hauke Rabbel (Leibniz-Institut für Polymerforschung Dresden, Germany)
 - *Charge effects on polymer translocation through lipid bilayer*
- Daniela Ciumac (University of Manchester, Manchester, UK)
 - *The binding of designed short α -helix peptides with model lipid monolayers at the air/water interface*
- Anna Sofia Tascini (Imperial College, London, UK)
 - *How does the sebum oily layer interact with epidermal lipids?*
- Domenico Lombardo (CNR, Messina, Italy)

- [Self-assembly of Porous Nanocarriers from Branched Polymer Templates](#)

22 October 2015

Management meeting of [ITN SNAL](#)

Meeting of [SNAL](#) Supervisory Board

Program is not public

- 09:00 to- 13:00 Session
- 13:00 -14:00 Lunch
- 15:00 - 17:00 Session

Full list of [participants](#)

Subpages (4): [abstracts](#) [Program-2011](#) [Program 2013](#) [Program 2014](#)

For any questions send e-mail to Vladimir Baulin at va.baulin@gmail.com

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