

BIOMEMBRANE DAYS 2025



SEPT. 29
TO OCT. 1,
2025



POSTERS



LOCATION: Harnack-Haus Berlin

REGISTRATION: <https://biomembrane-days-2025.mpikg.mpg.de>

ORGANIZERS: Rumiana Dimova, Helge Ewers, and Thomas Weikl

The conference is supported by:

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The number (1 – 120) indicates the poster board where the poster will be displayed.

1. Tom F. Aarts, Jan Gumathi Bormin, Megan V. Farrell, Linde Meyaard, Michiel van der Vlist, and Kristina A. Ganzinger: ***Visualizing inhibitory signaling of immunoreceptor LAIR-1 at the plasma membrane***
2. Matilde Accorsi, Teimuraz Gochitashvili, Ivan Ivanov, Rumiana Dimova: ***Branching membranes and far-reaching nanotubes : a journey to lipid networks***
3. Uliana Afonina, Parashara Shamapras, Edward Lymann, Ulrike Endesfelder and James Saenz: ***Studying the membrane of the haloarchaeon Haloferax volcanii***
4. Mina Aleksanyan, Agustín Mangiarotti, Naresh Yandrapalli, Andrea Grafmüller, Fucsia Crea Vasil N. Georgiev, Antreas Vorkas, Macarena Siri, Tsu-Wang Sun, Stephan Block Ramona Schlesinger, Reinhard Lipowsky, Joachim Heberle, Rumiana Dimova: ***Photomanipulation of membrane properties, shape and transport***
5. Özgün Doğa Aşık, Katia Cosentino: ***Correlative structural and functional investigation of Gasdermin D oligomers at the plasma membrane***
6. Sakshi Barhai, Elias Sabri, Agustin Mangiarotti, Rumiana Dimova: ***Exploring the impact of protein condensates on membrane resilience and repair mechanisms***
7. Subhadip Basu, Oded Farago: ***Lattice simulation of mixture of proteins and lipids***
8. Elda Bauda, Andreas Boland and Robbie Loewith: ***Structural study of yeast plasma membrane domains using cryo FIB-ET***
9. Matilde Becheroni, Tsu-Wang Sun, Rumiana Dimova: ***Light-responsive asymmetric membranes***
10. Thomas Bissing, Laura Heinen: ***From liquid condensates to synthetic cells: Controlled membranization of coacervates***
11. Leonard de Boer, Arthur Champain, Cenk Gurdap, Luca Andronico, Erdinc Sezgin: ***The role of membrane fluidity in immune cell migration***
12. Andrea Eisenreichova, Jana Humpolickova, Bartosz Różycki, Evzen Boura: ***Lipid transport by the ORP8 protein***
13. Mert Bozoflu, Jan A. Stevens, Siewert J. Marrink: ***Modeling the minimal cell envelope***
14. Christoph Trenzinger and Mario Brameshuber: ***Addressing T-cell sensitivity under confined conditions***
15. Adrià Bravo Vidal, Weria Pezeshkian: ***Multi-body Fluctuation-Induced Forces Between Membrane Proteins: Insights from Mesoscale Simulations***
16. Gresy Bregu, L. Wong-Dilworth, S. Restel, C. Rodilla-Ramirez, and F. Bottanelli: ***A GTPase cascade drives the maturation of ERES into cis-Golgi cisternae***
17. Eric Bumüller, Lori van de Caeter, Kristina Ganzinger: ***Functionalizing GUVs with modular transmembrane peptides***
18. Bastian Bundschuh, Wibke Schumann, Jennifer Loschwitz, Birgit Strodel: ***The interplay between the dynamics, polymerization and membrane binding of guanylate-binding proteins***
19. Ece Büber, Marta Tena-Solsona, Job Boekhoven: ***Engineering Compartments for Synthetic Evolution***

20. Giorgia Carai, Luis Wong-Dilworth, Eleanor Fox, Francesca Bottanelli: ***Regulation of intracellular trafficking during establishment and maintenance of cell polarity in epithelial cells***
21. Yorgos Chatziantoniou, Matej Kanduč, H el ene Berthoumieux: ***Characterizing the mechanical properties of the mitochondrial crista membrane using MD simulations***
22. Ainhoa Collada, Antonio Cruz and Jes us P erez Gil: ***Transient exposure to hyaluronic acid restores the structure and performance of pulmonary surfactant membrane complexes***
23. Leo Corne, Apostolos Vagias, Bruno Dem e, Philipp Gutfreund, Nicolo Paracini, Judith Peters, Carlos M. Marques: ***Study of Polystyrene Presence in Membranes Using Neutron Diffraction and Reflectometry***
24. Tomasz Czerniak, James P. Saenz, Erdinc Sezgin: ***Towards a molecular understanding of RNA–Lipid interactions in biological systems***
25. Lara Dohmen, Hendrik K uhl, Claudia Steinem, Andreas Janshoff: ***Oligomerization Matters: Investigating Gephyrin–NL2 Interactions in an In-Vitro Synapse Model***
26. Joris Dommisse, Marileen Dogterom, Gijsje Koenderink: ***Establishing a robust FtsZ-based divisome for synthetic cell constriction***
27. Andrea Eisenreichova, Jana Humpolickova, Bartosz R ozycki, Evzen Boura, Alena Koukalova: ***Effects of biophysical membrane properties on recognition of phosphatidylserine, or phosphatidylinositol 4-phosphate by lipid biosensors LactC2, or P4M***
28. Megan V. Farrell, Linde Meyaard, Michiel van der Vlist, Kristina Ganzinger: ***Investigating inhibitory receptor activation criteria using DNA origami***
29. Carla Kirschbaum, Jack L. Bennett, Sophie A. S. Lawrence, Carol V. Robinson: ***Native mass spectrometry: a powerful technique for studying protein-lipid interactions***
30. Christopher J. Garvey: ***Lamellar diffraction as a probe of packing of lipids and small molecules into biomembranes***
31. Beatrice J. Geiger, Weria Pezeshkian: ***Membrane necks’ split personality: how the nuclear envelope responds to osmotic pressure***
32. Cenk O. Gurdap, Dunya Aydos, G abor T oth, Simon C. Rapp, Maria Tsiokou, Tugce Ceker, Yagmur B. Urem, Pablo Carravilla, Leonard L. de Boer, Sarantis Giatrellis, John Cowgill, Patrick A. Sandoz, Cagla A. Cinar, Jaromir Mikes, Andrey S. Klymchenko, Frances Platt, Federico Pietrocola, Anna K. Simon, Bj orn  onfelt, Jonas Fris en, Petter Brodin, Ingela Lanekoff, Luca A. Andronico, Verda C. Bitirim, Erdinc Sezgin: ***High-throughput biophysical measurements of cells in health and disease***
33. Eduard Haar, Kevin Tanzusch, Lars Langemeyer, Changjiang You, Christian Ungermann: ***Reconstitution of membrane tethering and fusion machineries on supported membranes***
34. Marco Halbeisen, Svetozar Gravrilovic, Dr. Yusuf Qutbuddin, Prof. Dr. Petra Schwill: ***Membrane-Anchored Hydrogels for Extracellular Matrix Mimicry Using Click Chemistry***
35. Caroline Haupt, Dmitry A. Semchonok, Ambroise Desfosses, Farzad Hamdi, Sebastian Daum, Sarah Neudorf, Panos L. Kastritis, Milton T. Stubbs and Kirsten Bacia:

- Fluorescence and electron microscopy study to elucidate the structure of Arf1-coated membrane tubules***
36. Larissa Henke, Christoph von Ballmoos: ***Engineering Out-of-Equilibrium Synthetic Cells for Targeted Drug Release***
 37. Andreas Heuer, S. Kellers, F. Keller: ***Mapping microscopic simulations on a lattice model: new perspectives on domain formation in membranes***
 38. Azeline Hilaire, Antonio Stocco, Jean Farago, Fabrice Thalmann: ***Cycles of buckling in gel phase giant unilamellar vesicles***
 39. Alena Ballekova, Andrea Eisenreichova, Bartosz Różycki, Evzen Boura, Jana Humpolickova: ***Coordination of transporter, cargo, and membrane properties during non-vesicular lipid transport***
 40. Aleš Igljič, Raj Kumar Sadhu, Luka Mesarec, Nir S. Gov, Veronika Kralj-Igljič: ***On the role of curved proteins and cytoskeleton forces in encapsulation of nanoparticles***
 41. Emmanuel Joseph, Pavan Kumar B.V.V.S., Nicolas Martin: ***Coacervate droplet wetting of membrane domains in giant unilamellar vesicles***
 42. Aditi Kakkad, Ilia Korobko, Amnon Horovitz: ***How are protein folding and stability affected by encapsulation in the GroEL cavity?***
 43. Michael Kaltenecker, Robert Ernst, Gustav Oberdorfer, Georg Krainer, Sandro Keller, Georg Pabst: ***Impact of differential membrane curvature stress on integral membrane protein-protein interactions***
 44. Selcan Karaz, Dr. Gaurav Gardi: ***Emergent motility of self-organized particle-giant unilamellar vesicle assembly***
 45. Manpreet Kaur, Fabio Lolicato, Walter Nickel: ***Plasma membrane transbilayer asymmetry of PI(4,5)P2 facilitates FGF2 membrane translocation***
 46. Caroline König, Dmitry Shvarev, Jieqiong Gao, Eduard Haar, Nicole Susan, Kathrin Auffarth, Lars Langemeyer, Arne Moeller and Christian Ungermann: ***Vps41 functions as a molecular ruler for HOPS tethering complex-mediated membrane fusion***
 47. Varvara Kramkova, James P Saenz: ***How many lipids are enough?***
 48. Maximilian Krebs, Herre Jelger Risselada: ***Evolutionary Optimization of a bacterial toy model membrane***
 49. Jana Kroll, Uljana Kravčenko, Mohsen Sadeghi, Christoph A. Diebold, Lia Ivanov, Małgorzata Lubas, Thiemo Sprink, Magdalena Schacherl, Mikhail Kudryashev, Christian Rosenmund: ***Dynamic nanoscale architecture of synaptic vesicle fusion in mouse hippocampal neurons***
 50. Minoru Kurisu, Masayuki Imai: ***Osmotic spawning vesicle***
 51. Anna Łągowska, Emilia Krok, Maria Domanska, Piotr Setny, Lukasz Piatkowski, Hanna Orlikowska-Rzeznik: ***Steroid-specific modulation of lipid membranes: progesterone acts through a mechanism distinct from cholesterol***
 52. Tunde Lawal, Christian Ungermann and Lars Langemeyer: ***The Rab7-like GTPase Ypt7 hypervariable domain functions in GEF recognition and effector binding***
 53. Pia Lazki-Hagenbach, Nina Heindorf, Miriam Herfort, Francesca Bottanelli: ***Studying secretory granule biogenesis and maturation in mast cells – a novel approach***

54. Špela Lemež, Xevi Casadevall i Solvas: ***Building Membranes for Division: A Minimal Model for Artificial Cell Fission***
55. Aisha Levina, Mojca Mally, Jure Derganc: ***High-Throughput Microfluidic Quantification of Cellular Membrane Reservoirs***
56. Yehonatan Levy, Dganit Danino, Daniel Harries: ***Drunk Membranes: Phospholipid Mesophase Transitions in the Presence of Ethanol and Methanol***
57. Ludovic Gardré, Swen Helstroffer, Pierre Muller, Giovanna Fragneto, Arnaud Hemmerle, Léo Henry, Fabrice Thalmann, Thierry Charitat, Laurent Joly, and Claire Loison: ***Nanoseparated charged lipid layers***
58. Mehaiarii Louis, Seraphine Wegner: ***Light triggered transport across lipid membranes***
59. Vincent Louis, Eli van der Sluis, Marileen Dogterom, Gijsje Koenderink: ***Force sensing in artificial cells***
60. Sebastian Lütge, Jelger Risselada: ***Artificial evolution of sterol-like molecules for optimizing membrane bending stress***
61. Jacek Lyskawa, Emilia Krok, Lukasz Piatkowski: ***Fluorescence lifetime of selected probes as an effective indicator of cell membrane hydration***
62. Mojca Mally, Nika Žibrat, Gregor Anderluh, Jure Derganc: ***Single-vesicle study on NLP toxins affecting model plant-cell membranes: microfluidic method***
63. Titas Mandal, Bastian Albrecht, Shorouk Abdelwahed, Peggy Jones, Salvatore Chiantia: ***Molecular determinants of Hepatitis C virus assembly on lipid membranes***
64. Mia Mönnig, Christoph Pollmann, Jacob Piehler: ***Oncogenic mutations differentially dysregulate stoichiometry and structural organization of G-CSFR signaling complexes in the plasma membrane***
65. Stephanie Monson, Sahil Kulkarni, Ravi Radhakrishnan: ***Patchy but Powerful: Percolation physics governs nanoparticle recognition by the innate immune system***
66. Abdelbasset Yabrag, Naeem Ullah, Aftab Nadeem: ***Mechanisms of Lipid Membrane Perturbation by Bacterial Pore-Forming Toxins***
67. Chikim Nguyen, Kristina Ganzinger: ***Real-Time Mapping of CAR T Cell Signaling at Molecular Resolution***
68. Thuy An Nguyen, Petra Schwille: ***Micropatterned membranes direct Min protein pattern formation***
69. Ha Ngoc Anh Nguyen, James P. Saenz, Edward R. Lyman, Liam M. Sharp: ***Tuning membrane properties with a tunable living membrane***
70. Ilona Opietka, Anita Hryniewicz-Jankowska, Aleksander Czogalla: ***Plasma membrane biophysical remodeling during epithelial-to-mesenchymal transition in breast cancer model***
71. Hanna Orlikowska-Rzeznik, Emilia Krok, Maria Domanska, Piotr Setny, Anna Łągowska, Madhurima Chattopadhyay, Jan Versluis, Huib J. Bakker, and Lukasz Piatkowski: ***Interplay between cholesterol and interfacial water in membrane heterogeneity and fusion***
72. Julia Pabisz, Aleksander Czogalla, Piotr Hinc: ***Interplay between mTOR and ceramide-1-phosphate - a molecular perspective***

73. Sivadas Palliyil, Anna Jose, Shabin Neeruttikkal Chathangad, Harini SureshKumar, Sovan Lal Das, Mintu Porel, Sushabhan Sadhukhan & Anand Srivastava: ***Small molecule-based sequence-defined oligomers as membrane disrupting antibacterial agents : A biophysical study***
74. Aviya Perlman Illouz, Ruth Meyer, Sarah Koester, Gonen Golani, Raya Sorkin: ***Investigating the Role of Tension in Non-Homogeneous Membrane Organization***
75. Sergio Alejandro Poveda-Cuevas, Kateryna Lohachova, Borna Markusic, Adriana Covarrubias-Pinto, Andreas Kern, Gerhard Hummer, Ivan Dikic, and Ramachandra M. Bhaskara: ***Modelling receptor clustering, protein—protein, and protein—lipid interactions in autophagic membranes***
76. Annemarie Quas, Clara Rickhoff, Sarita Klügel, Andreas Heuer: ***Properties of long-chain lipid enriched regions in biological membranes: Insights from MD simulations***
77. Yusuf Qutbuddin, Ainoa Guinart, Svetozar Gavrilovic, Marco Halbeisen, Ben Feringa, Petra Schwille: ***The Dynamics of Enlightened Lipid Membranes***
78. Neda Rahmani, Ranjit Gulvady, Patricia Bassereau, Johannes Ludger, John Hjorth Ipsen, and Weria Pezeshkian: ***Novel DNA-based force sensor to measure membrane-mediated forces between proteins***
79. Neetu Rajendran, Anna Gaugutz, Gerhard J. Schütz: ***A Closer Look at the Dynamics of T Cell Receptor Microclusters***
80. Arun K. Rathod, Dhruvil Chavda and Moutusi Manna: ***Phase Transition and Phase Separation in Realistic Thylakoid Lipid Membrane of Marine Algae in All-Atom Simulations***
81. Mehdi Ravandeh, Alena Starikova, Jan Steinkühler: ***Electrical stimulation of lipid nanotubes***
82. Aoife Redlich, Raiza Maia, Constantin Flommersfeld, Antreas Vorkas, Kirsten Hoffmann, Ramona Schlesinger, Joachim Heberle: ***Tuning photocycles via light-responsive lipid nanodiscs***
83. Clara Rickhoff, Azadeh Alavizargar, Andreas Heuer: ***Comparison of imidazole-based cholesterol-analogs with native cholesterol via MD-Simulations***
84. Maria Clara A. Oliveira and Karin A. Riske: ***Properties of bilayers containing three classes of glycolipids***
85. Naresh Yandrapalli, Reinhard Lipowsky, and Tom Robinson: ***Synthetic cells with asymmetric and phase separated lipid membranes display budding and division events***
86. Midhun Mohan Anila, Rikhia Ghosh, Bartosz Rozycki: ***Membrane curvature sensing by model biomolecular condensates***
87. Theresa Rudd and James Saenz: ***Low Temperature Adaptation of the Minimal Cell JCVI-syn3B***
88. Elias Sabri, Agustín Mangiarotti, Rumiana Dimova: ***Understanding the complex interplay between biomolecular condensate micropolarity and protein hydration : implications in membrane-condensate mutual remodelling***
89. Atreyee Saha, Prof. Seraphine Wegner: ***Communication in tertiary communities of synthetic cells***

90. Kita V. Schmidt, Eric D.B. Foley, Manish S. Kushwah, Philipp Kukura, Rumiana Dimova, Helge Ewers: ***Dynamic assembly of septin complexes on supported lipid bilayers by mass photometry***
91. Lukas Schrangl, Florian Kellner, René Platzer, José L. Toca-Herrera, Gerhard J. Schütz, Johannes B. Huppa, Janett Göhring: ***Single-molecule FRET measurements of TCR-exerted mechanical forces and bond lifetime estimation within the immunological synapse***
92. Fabian Schuhmann, Jan A. Stevens, Neda Rahmani, Isabell Lindahl, Chelsea M. Brown, Christopher Brasnett, Dimitrios Anastasiou, Adrià Bravo Vidal, Beatrice Geiger, Siewert J. Marrink, Weria Pezeshkian: ***TS2CG 2.0 - the membrane builder***
93. Isabel Berg, Jasmin Penker, Vanessa Jerschabeck, Luisa Voigt, Felix Götze, Dariush Hinderberger, Sandro Keller, Christian Schwieger: ***Adsorption of Lipid Bilayers to Monolayers: A New Triple Layer System for Studying Membrane Proteins***
94. Pietro Sillano, Timon Idema, Siewert-Jan Marrink: ***A novel Coarse-Grained Membrane Model for Mesoscale systems***
95. Martin Berg Klenow, Anne Sofie Busk Heitmann, Sabina Elmi, Ellen J. Pørtner, Weria Pezeshkian, Michael Lomholt, Jesper Nylandsted, Adam C. Simonsen: ***Dissecting the mechanism of plasma membrane repair: Importance of membrane curvature and area expansion***
96. Keerti Singh, Thomas J. Pucadyil: ***Dissecting membrane remodeling by a Dynamin-like protein from Nostoc punctiforme***
97. Russell Spencer, Marcus Müller: ***How Dynamin Constriction Drives Membrane Tube Fission***
98. M. Ravendeh, Alena Starikova, J. Steinkühler: ***Electrical stimulation of lipid nanotubes***
99. Leonhard J. Starke, Kasparas Petkevicius, Anna L. Duncan: ***Heads vs. tails: is bmp deficiency linked to atp-synthase c-ring accumulation in lysosomes?***
100. Florent Fessler, Vaibhav Sharma, Antonio Stocco: ***Active Janus Colloids interacting with Giant Lipid Vesicles***
101. Robert Strutt, Petra Dittrich: ***Engineering biomimetic membrane systems for PK/PD analysis***
102. Tsu-Wang Sun, Elias Sabri, Mina Aleksanyan, Naresh Yandrapalli, Antreas Vorkas, Philip Stabler, Ramona Schlesinger, Joachim Heberle, Rumiana Dimova: ***Exploring the role of photoswitchable lipids in membrane shape, phase behavior and protein gating***
103. Daxiao Sun, Lennart Kleinschmidt, Tom Borianne, Saemi Lee, Cécilie Martin-Lemaitre, Alf Honigmann: ***Epithelial interface compartmentalisation by scaffold condensation and receptor size***
104. Saša Svetina and Bojan Božič: ***Piezo1 shape dependence on membrane curvature is a sign of its multi-conformational nature***
105. Taras Sych, Selim Tanriverdi, Jan Schlegel, Florian Weber, Hanna Barriga, Miina Ojansivu, Daniel Fuerth, Leo Hanke, Andre Görgens, Samir El Andaloussi, Birgit Plochberger, Herbert Stangl, Aman Russom, Dunya Aydos, Ceylan Verda Bitirim, Erdinc

- Sezgin: ***High-Throughput analysis of the content and properties of nano-sized bioparticles with single-particle profiler***
106. Kevin Tanzusch, Eduard Haar, Arthur Felker, Nadia Füllbrunn, Rainer Kurre, Changjiang You, Christian Ungermann, Jacob Piehler: ***Ultrastructural organization and dynamics of the lysosomal HOPS tethering complex on membranes***
 107. Megi Tinev, Luka Kristanc, Gregor Gomišček, Bojan Božič: ***Passage of the channel-forming agent nystatin through ergosterol-containing lipid membranes***
 108. Yagmur Balim Urem, Helge Ewers: ***Single-Particle Tracking with Fluorescent Proteins: A Quantitative Study of mStayGold and mScarlet3-H***
 109. Bas van Bommel, Benno Kuroopka, Barbara Zieger, Hauke B. Werner and Helge Ewers: ***Isoform-Specific Roles of Septin 8 in Brain Cells and Membrane Trafficking***
 110. Stijn van der Ham, Alexander Brown, Halim Kusumaatmaja, Hanumantha Rao Vutukuri: ***How particle morphology and deformability control lipid membrane wrapping***
 111. Sifre van Teeffelen, Habiba Hassani, Léo Corne, Yann Bretonnière, Carlos M. Marques: ***Solvatochromic dyes to probe the properties of hydroperoxidized lipid membranes***
 112. Marco P.A. van Tilburg, Siewert J. Marrink, Melanie Koenig, Fabian Grunewald: ***Shocker - A molecular dynamics protocol and tool for accelerating and analyzing the effects of osmotic shock***
 113. Nikhil Walani, Anabel-Lise Le Roux, Pere Roca Cusachs, Marino Arroyo: ***A mechano-sensing mechanism controls plasma membrane shape homeostasis at the nanoscale: Mathematical Model***
 114. Eike Wienbeucker, Mia Mönnig, Marvin Wortmann, Steffen T. Harms, Eleonora Di Zanni, Alessio Accardi, Jacob Piehler: ***Spatiotemporal dynamics of plasma membrane lipid scrambling and its implications for cytokine receptor activation***
 115. Maximilian Winkler, Katharina Overhoff, Nikolas K. Teiwes, Mark Skamrahl, Thanh Tan Huynh Huu, Nico Benten, Andreas Janshoff, Claudia Steinem: ***Membrane surface viscosity and line tension of artificial and natural liquid-liquid phase-separated pore-spanning membranes***
 116. Marvin Wortmann, Arthur Felker, Bingshati Sarkar, Eike Wienbeucker, Emma Leder, Jacob Piehler: ***Spatial diffusion dynamics in plasma membrane nanodomains***
 117. Ping Xiao, Stefan Moning, Amit V Pandey, Christoph von Ballmoos: ***Formate-Fueled Self-Sustained GUVs platform for CYP450-Mediated Drug Metabolism***
 118. Qingrong Zhang, Ana J. García-Sáez: ***Annexin A6 Orchestrates Membrane Remodeling via Dynamic Ring Formation and Compression***
 119. Yifan Zhou, Meng Diao, Yaqiang Liu, Kangmin He, Xiao Yang and Xun Huang: ***PS synthesis reduction disturbs IP3R-mediated ER Ca²⁺ homeostasis***
 120. Xiaohong Zhuang: ***Biomolecular condensation drive autophagosome formation for plant heat tolerance***