

Membrane Kinesis – Shaping and Transport of Cell Membranes

International Merz-Symposium 2013

22. Oct. 2013, Biocenter B1, Campus Riedberg, Goethe-University Frankfurt

Program

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| 9:00 - 9:10 | Manfred Schubert-Zsilavecz Vice President, JWGU | Welcome Address Goethe-University |
| 9:10 - 9:20 | Alexander Gebauer Merz-Pharma, CEO | Welcome Address |
| <i>Chair: Erin Schuman (Frankfurt)</i> | | |
| 9:20 - 9:50 | <i>Keynote Opening Lecture:</i> Jennifer Lippincott-Schwartz <i>Bethesda</i> | Insights into HIV viral assembly and membrane abscission using super resolution microscopy |
| 9:50 - 10:20 | Volker Haucke <i>Berlin</i> | Greasing endocytosis by membrane lipids |
| 10:20 - 10:40 | Andreas Reichert <i>Frankfurt</i> | Molecular mechanisms shaping mitochondrial membranes |
| 10:40 - 11:00 | Robert Ernst <i>Frankfurt</i> | From fatty acid desaturation to membrane stress responses |
| - Break - | | |
| <i>Chair: Amparo Acker-Palmer (Frankfurt)</i> | | |
| 11:30 - 12:00 | Antoine Triller <i>Paris</i> | Receptor kinesis accounting for synapse stability and plasticity |
| 12:00 - 12:20 | Ernst Stelzer <i>Frankfurt</i> | High resolution three-dimensional imaging of cellular spheroids with light sheet-based fluorescence microscopy |
| 12:20 - 12:40 | Alexander Gottschalk <i>Frankfurt</i> | In vivo synaptic recovery following optogenetic hyperstimulation |
| - Lunch - | | |
| <i>Chair: Volker Dötsch (Frankfurt)</i> | | |
| 14:00 - 14.30 | Petra Schwille <i>Martinsried</i> | Membrane models to investigate protein-induced transformations |
| 14:30 - 15:00 | Horst Vogel <i>Lausanne</i> | Imaging and manipulating cellular biochemical networks: From single cells to single molecules |
| 15:00 - 15:30 | Jacob Piehler <i>Osnabrück</i> | Assembly and dynamics of cytokine receptor complexes |
| 15:30 - 15:50 | Mike Heilemann <i>Frankfurt</i> | Quantitative single-molecule super-resolution microscopy of membrane proteins |
| - Break - | | |
| <i>Chair: Anna Starzinski-Powitz (Frankfurt)</i> | | |
| 16:20 - 16:50 | Carsten Schultz <i>Heidelberg</i> | Searching for the perfect fluorescent probe |
| 16:50 - 17:20 | Jacques Neefjes <i>Amsterdam</i> | The strange dance of MHC class II molecules: motors, motors and more motors |
| 17:20 - 17:50 | Peter Friedl <i>Nijmegen</i> | Mechanics of cancer cell invasion <i>in vitro</i> and <i>in vivo</i> |
| 17:50 - 18:00 | Robert Tampé <i>Frankfurt</i> | Closing Remarks |