

## Thursday 28 June 2018

18:00 **Meet and Greet with Poster Session 1**

## Friday 29 June 2018

### Session 1: Basic sphingolipid biology, protein interactions

*Chair: T. Rudel / J. Seibel*

08:30 Protein-sphingolipid interactions within membranes

*Britta Brügger*

09:00 Recent developments in lipid tracing

*Christoph Thiele*

09:30 Exploring the dark side of sphingolipid biosynthesis with light-activated lipid probes

*Joost Holthuis*

10:00 Following (sphingo)lipid transport between organelles

*Doris Höglinger*

10:30 **Coffee break**

### Session 2: High end membrane dynamics and visualization

*Chair: M. Sauer / E. Avota*

10:45 Characterization and visualization of ceramides with molecular resolution

*Jan Schlegel*

11:00 Super-resolution STED microscopy studies of sphingolipid interaction dynamics

*Christian Eggeling*

11:30 Optical antenna-based concepts to probe the nanoscale dynamics of biological membranes

*Maria Garcia-Parajo*

12:00 Sphingomyelin metabolism controls the shape, function, and organization of the Golgi membranes

*Felix Campelo*

12:20 Functional sphingolipids for elucidating biological events

*Jürgen Seibel*

12:50 **Lunch with Poster Session 2**

### Session 3: Sphingolipid metabolizing enzymes in cell biology

*Chair: E. Gulbins / N. Beyersdorf*

14:00 Treatment of sphingolipid storage diseases with enzymes: Lessons learned about safety & efficacy

*Edward Schuchman*

14:30 Monitoring of de novo sphingolipid synthesis via mass spectrometry

*Burkhard Kleuser*

15:00 Neutral sphingomyelinase 2, bona fide cell signaling enzyme generating ceramide-enriched compartments

*Erhard Bieberich*

15:30 Phenotypes of S1P lyase-deficient cells

*Dagmar Meyer-zu-Heringdorf*

16:00 **Coffee break**

*Chair: B. Kleuser / M. Lutz*

16:15 Sphingolipids as regulators of lung vascular permeability

*Wolfgang Kübler*

16:45 S1P lyase deficiency augments both inflammation-induced cancer and cancer-induced inflammation

*Heinfried Radeke*

17:15 S1P1 and S1P4: impact towards tumor progression

*Bernhard Brüne*

19:30 **Speakers' Dinner  
(for invited participants)**

## Saturday 30 June 2018

### Session 4: Sphingolipid metabolizing enzymes in infection

*Chair: J. Schneider-Schaulies / M. Fraunholz*

08:30 The role of the acid sphingomyelinase in mycobacterial infection

*Yuqing Wu*

08:45 Calcium-dependent ceramide release in response to *N. meningitidis* infection

*Simon Peters*

09:00 Regulation of pulmonary infections by sphingosine

*Erich Gulbins*

09:30 Measles virus and T cell receptor in activation of NSM2 and regulation of T cell polarization

*Elita Avota*

10:00 The role of lipid rafts in virus infection

*Lukas Tamm*

10:30 **Coffee break**

### Session 5: Spingolipids in disease control

*Chair: A. Schubert-Unkmeir / J. Fandrey*

11:00 Sphingolipids and hypoxia

*Ulrike Glaser*

11:15 Inhaled sphingosine mitigates bacterial loads in susceptible mice

*Charles C. Caldwell*

11:45 The role of sphingolipids as novel biomarkers in chronic liver disease

*Georgios Grammatikos*

12:15 Sphingomyelinase inhibitor-induced immunoregulation in mice and patients with depression

*Niklas Beyersdorf*

13:00 **Light Lunch and Departure**

<http://www.virologie.uni-wuerzburg.de/for2123/workshop/>

### Venue of Meeting

Julius-Maximilians-University Würzburg  
Institute for Molecular Infection Biology (IMIB)  
Josef-Schneider-Str. 2 / Bau D15  
97080 Würzburg ([www.imib-wuerzburg.de](http://www.imib-wuerzburg.de))

### Charges/Registration

Attendance at the meeting is free of charge.  
We would appreciate registration of participants before 31. May 2015.

### Poster

To submit a Poster please register online before 31. May 2015

### Date

28-30 June 2015

### Chair

Sibylle Schneider-Schaulies  
Institute for Virology and Immunobiology  
University of Würzburg

 [s-s-s@vim.uni-wuerzburg.de](mailto:s-s-s@vim.uni-wuerzburg.de)

Erich Gulbins  
Institute for Molecular Biology  
University of Duisburg-Essen

 [Erich.gulbins@uni-due.de](mailto:Erich.gulbins@uni-due.de)

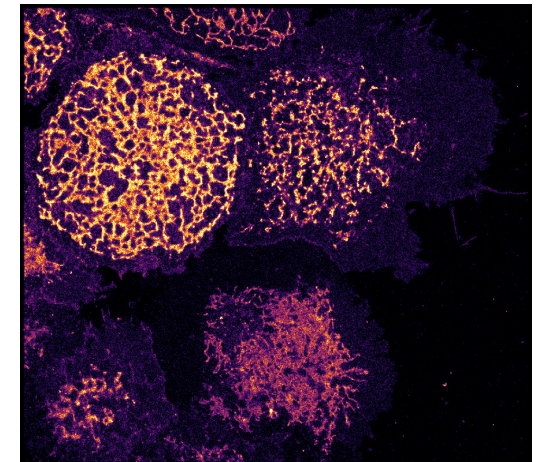
### Contact

Christina Mollar  
Institute for Virology and Immunobiology  
University of Würzburg  
Phone: 049-931-31-81819

 [FOR2123@uni-wuerzburg.de](mailto:FOR2123@uni-wuerzburg.de)



**DFG** Deutsche Forschungsgemeinschaft



Jurkat cells stained with C6omega-HMSiR  
(Jan Schlegel, University of Würzburg)

## Spingolipids - from basic science to novel therapeutic concepts

28-30 June 2018  
Würzburg, Germany

