

2nd Münster Symposium on Infection Biology

Max Planck Institute for Molecular Biomedicine, Münster

Thursday, 08/03/2018

13.30 Registration and poster mounting

14.00 **Welcome Address**

Ursula Rescher & Ulrich Dobrindt

Session I (Chair: Christian Rüter)

14.15 **Keynote lecture I**

"Metabolism meets virulence: Stable isotope labeling of bacterial pathogens"

Wolfgang Eisenreich, Department of Chemistry, Technical University of Munich

14.45 "New insights into how plant-derived rhamnogalacturonans inhibit the attachment of *Helicobacter pylori* to the gastric epithelium"

Maren Gottesmann, Institute for Pharmaceutical Biology and Phytochemistry, Münster

15.00 "Antiadhesive compounds of *Orthosiphon stamineus* against UPEC"

Melanie Deipenbrock, Institute for Pharmaceutical Biology and Phytochemistry, Münster

15.15 "Medical Importance of Bile Acid Degrading Bacteria"

Bodo Philipp, Institute for Molecular Microbiology and Biotechnology IMMB, Münster

15.30 "Attenuation of *Pseudomonas aeruginosa* virulence by enzyme-catalyzed inactivation of quorum sensing signals"

Franziska Birmes, Institute for Molecular Microbiology and Biotechnology, Münster

15.45 *Coffee break/Poster Session*

Session II (Chair: Bodo Phillip)

16.30 "Unconventional biofilm formation of *E. coli* Nissle 1917"

Annika Cimdins, Institute of Hygiene, Münster

16.45 "Dissecting EHEC toxin delivery by creating synthetic OMVs"

Alexander Kehl, Institute of Hygiene, Münster

17.00 "CPP-peptidoglycan-degrading fusion proteins targeting intracellular bacteria"

Thaynan Martins, Institute of Infectiology, Münster

17.15 *Coffee break/Poster Session*

18:00 **Keynote lecture II**

"Dissecting bacterial infection one cell at the time using single-cell RNA-seq"

Emmanuel Antoine Saliba, Helmholtz Institute for RNA-based Infection Research (HIRI), Single-Cell Analysis (SIGA), University of Würzburg

18.30 **Keynote lecture III**

"Genome variation and host adaptation during early and chronic infection with *Helicobacter pylori*"

Sebastian Suerbaum, Medical Microbiology and Hospital Epidemiology, Max von Pettenkofer-Institute, Ludwig-Maximilians-University Munich

19.00 *Drinks, Bites, Snacks, Posters*

Friday, 09/03/2018

Session III (Chair: Christina Ehrhardt and Wali Hafezi)

- 09.00 **Keynote lecture IV**
"Flying viruses - from biophysical to structural characterization"
Charlotte Uetrecht
Heinrich-Pette-Institute, Leibniz-Institute for Experimental Virology, Hamburg
- 09.30 "Cholesterol and IFITM3 in influenza A virus entry"
Alexander Kühnl, Institute of Medical Biochemistry, Münster
- 09.45 "Viral activation of the Raf/MEK/ERK kinase cascade promotes nuclear export of viral ribonucleoproteins (RNPs) by regulating matrix protein binding to the RNPs"
André Schreiber, Institute of Molecular Virology, Münster
- 10.00 "Live and let die: *Staphylococcus aureus* triggers a shift from influenza virus-induced apoptosis to necrotic cell death"
Andre van Krüchten, Institute of Molecular Virology, Münster
- 10.15 "Regulatory functions of L2 interaction with mitotic chromatin during nuclear entry of Human papilloma virus"
Kun-Yi Lai, Institute of Cellular Virology, Münster
- 10.30 "HPV16 endocytosis depends on BAR domain proteins and branched actin polymerization"
Pia Brinkert, Institute of Cellular Virology, Münster
- 10.45 *Coffee break/Poster Session*
- 11.30 "Metabolic conversion of CI-1040 turns a cellular MEK-inhibitor into an antibacterial compound"
Christin Bruchhagen, Institute of Molecular Virology, Münster
- 11.45 "Tyrosine 132 of Influenza A virus Matrix protein 1 is essential for efficient viral genome packaging and particle assembly"
Angeles Mecato-Zambrano, Institute of Cellular Virology, Münster

Session IV (Chair: Mario Schelhaas)

- 12.00 **Keynote lecture V**
"Regulation of Ebola virus replication by cellular enzymes"
Stephan Becker, Institute of Virology, Philipps University Marburg
- 12.30 **Keynote lecture VI**
"The Importins of Herpes Simplex Virus Infection"
Beate Sodeik, Institute of Virologie, Hannover Medical School
- 13.00 Closing remarks, Farewell