

1st Münster Symposium
on
Infection Biology

March 29/30, 2017

Max Planck Institute for Molecular Biomedicine, Münster

Wednesday, 29/03/2017

13:30 Registration

14:00 Welcome Address
Mathias Herrmann, Dean of the Medical Faculty

14:15 **Keynote lecture I**
“The role of eukaryotic-like serine/threonine kinases in bacterial pathogens”
Knut Ohlsen (Institute of Molecular Infection Biology, University of Würzburg)

Session I (Chair: Georg Peters)

14:45 “New insights into post-translational protein glycosylation in *Staphylococcus aureus*”, Christine Heilmann (Münster)

15:00 “Influenza virus-induced apoptosis is shifted to necroptosis during co-infection with *Staphylococcus aureus*”, Christina Ehrhardt (Münster)

15:15 “Intra-host evolution of bacterial pathogens”,
Alexander Mellmann (Münster)

15:30 Coffee Break / Poster Session

Session II (Chair: M. Alexander Schmidt)

16:15 "The role of superoxide dismutase M during *Staphylococcus aureus* persistence in the airways of cystic fibrosis patients", J. Treffon, AG Kahl, Münster)

16:30 “*Mycobacterium abscessus* is capable of inactivating quorum sensing signals and antibiotics produced by *Pseudomonas aeruginosa*”, S. Fetzner, Münster)

16:45 “Metabolic influence on quorum sensing-dependent virulence factor production in *Pseudomonas aeruginosa*”, B. Philipp (Münster)

17:00 “The initial step of urinary tract infections (UTI), frequently caused by uropathogenic *Escherichia coli* (UPEC), is the adhesion of bacteria to urothelial cells”, B. Scharf (Münster)

17:15 “Life in urine is not as bad as it seems – insights into bacterial adaptation to long-term growth in the urinary tract”, Ulrich Dobrindt (Münster)

17:30 Coffee break / Poster Session

18:15 **Keynote lecture II**
“Phage-encoded molecules and the regulation of STEC virulence”
Gerald B. Koudelka (State University of New York, Buffalo, USA)

18:45 Drinks, Bites, Posters

Thursday, 30/03/2017

09:00 **Keynote lecture III**
“Title ?”
Rob Lavigne (Laboratory of Gene Technology, KU Leuven, Belgium)

Session III (Chair: Ulrich Dobrindt)

09:30 “Late endosomal cholesterol is a host cell target in influenza A virus infection”,
Alexander Kühnl (AG Rescher, Münster)

09:45 “RANK/RANKL signaling is crucial for skin barrier function during anti-viral immune responses”,
Karin Loser (Münster)

10:00 “When the nucleus drops its guard, papillomaviruses thrive or how the host cell cycle regulates
initial papillomavirus infection”, Mario Schelhaas (Münster)

10:15 “Repurposing of signal transduction inhibitors to fight the flu”, Stephan Ludwig (Münster)

10:30 Coffee break / Poster Session

Session IV (Chair: Volker Gerke)

11:15 “Bacterial-derived cell-penetrating peptides deliver gentamicin to kill intracellular pathogens”,
Christian Rüter (Münster)

11:30 “High resolution mass spectrometry for the discovery of new secondary metabolites from
phytopathogenic fungi”, H. Humpf (Münster)

11:45 "Noninvasive in vivo imaging of infection and inflammation", Cornelius Faber (Münster)

12:00 “Beyond the phenotype: Snapshots of molecular information visualized by MALDI mass
spectrometry imaging”, Klaus Dreisewerd (Münster)

12:15 “Proteome expression analysis using high-resolution ion mobility mass spectrometry”, Simone
König (Münster)

12:30 **Keynote lecture IV**
“Molecular insights into bat influenza A-like viruses”
Martin Schwemmler (Department of Virology, University of Freiburg, Germany)

13:00 Closing Remarks, Farewell

Organised by Ursula Rescher, Ulrich Dobrindt, Martina Steffen und Sabine Blass-Kampmann

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