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1 Münster Symposium
on
Infection Biology

March 29/30, 2017

Max Planck Institute for Molecular Biomedicine, Münster

Wednesday, 29/03/2017

13:30 Registration and poster mounting

14:00 Welcome Address

Mathias Herrmann, Dean of the Medical Faculty

Session I (Chair: Georg Peters)

14:15 **Keynote lecture I**

“The role of eukaryotic-like serine/threonine kinases in bacterial pathogens”

Knut Ohlsen (Institute for Molecular Infection Biology, University of Würzburg)

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” Janina Treffon (Münster)

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

16:45 “Metabolic influence on quorum sensing-dependent virulence factor production in *Pseudomonas aeruginosa*” Bodo 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” Birte 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 Bruce Koudelka (State University of New York, Buffalo, USA)

18:45 *Drinks, Bites, Posters*

Thursday, 30/03/2017

Session III (Chair: Ulrich Dobrindt)

09:00 **Keynote lecture III**

"Novel antimicrobial design strategies derived from bacteriophages"
Rob Lavigne (Laboratory of Gene Technology - KU Leuven, Belgium)

09:30 "Late endosomal cholesterol is a host cell target in influenza A virus infection"
Alexander Kühnl (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*

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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"
Hans-Ulrich 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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