10TH TWINCORE Symposium
30. - 31. August 2018

Frontiers in translational infection research

Thursday, 30 August 2018

08.15-09.00  Registrierung
09.00-09.05  Ulrich Kalinke
             Begrüßung "10. TWINCORE-Symposium"
09.05-09.20  Minister Björn Thümler
             Grußwort; Niedersächsisches Ministerium für Wissenschaft und Kultur
09.20-09.30  Christopher Baum
             Grußwort; Präsident MHH
09.30-09.40  Dirk Heinz
             Grußwort; Wissenschaftlicher Direktor HZI
09.40-10.00  Kaffeepause

TOPIC: Virology  Chair: Eike Steinmann

10.00-10.25  Michael P. Manns
             Medical challenges in viral hepatitis
10.25-10.50  Ralf Bartenschlager
             Hepatitis C virus research: Challenges and opportunities beyond antiviral therapy
10.50-11.15  Eike Steinmann
             Hepatitis E virus: Principles of replication, resistance, and chronic persistence
11.15-11.45  Coffee break

11.45-12.15  Charles M. Rice
             Diverse and unexpected strategies of host antiviral immunity
12.15-12.30  Michael Ott
             Beyond hepatitis C - novel concepts to treat liver fibrosis
12.30-12.40  Gisa Gerold
             Protein complexes as entry ports into cells: Lessons learned from hepatitis C virus
12.40-13.40  Lunch

TOPIC: Immunology  Chair: Jan Buer

13.40-13.55  Reinhold Förster
             Cellular immune responses in controlling MCMV infection
13.55-14.05  Christine Goffinet
             Innate sensing and restriction of HIV-1 in T-cells
14.05-14.15  Ulrich Kalinke
             Hepatocytes are key innate effector cells during enterovirus infection
14.15-14.30  Tim Sparwasser
             Metabolic programs controlling immune cell function
14.30-15.00  Coffee break

TOPIC: Bacteriology  Chair: Alain Filloux

15.00-15.30  Alain Filloux
             The type VI secretion system: A bacterial killing machine
15.30-15.45  Susanne Häußler
             tRNA modifications in Pseudomonas aeruginosa
15.45-16.00  Petra Dersch
             RNA-based virulence strategies of enteric pathogens as potential drug targets
16.00-17.00  Honours for Dieter Bitter-Suermann and Rudi Balling
17.00  Barbecue, live music
Friday, 31 August 2018

**TOPIC: Natural Compounds / Therapy**
Chair: Rolf Müller

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| 09.00-09.20 | Rolf Müller  
Discovery and development of antibiotics from bacterial natural products |
| 09.20-09.45 | Helga Rübsamen-Schaeff  
PREVYMIS™ (Letermovir), a novel drug for prophylaxis of HCMV reactivation in stem cell recipients - from bench to bedside |
| 09.45-10.00 | Luka Cicin-Sain  
Understanding T cell responses to CMV infection |
| 10.00-10.30 | Coffee break |

**TOPIC: Vaccination**
Chair: Albert Osterhaus

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| 10.30-11.00 | Albert Osterhaus  
From virus discovery to intervention strategy |
| 11.00-11.15 | Michael Meyer-Hermann  
How to generate optimal antibodies in in silico germinal centres |
| 11.15-11.40 | Ursula Buchholz  
Progress in the development of pediatric live-attenuated respiratory syncytial virus vaccines |
| 11.40-11.55 | Thomas Pietzschmann  
Genetic determinants of severe respiratory syncytial virus infection in infants |
| 11.55-12.15 | Emmanuel Saliba  
Single-cell RNA-seq reveals the complexity and heterogeneity of infection processes |
| 12.15-13.15 | Lunch |

**TOPIC: Monitoring**
Chair: Ulrich Kalinke

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| 13.15-13.25 | Frank Pessler  
IL8 and IL18 as predictive biomarkers for the immune response to influenza vaccination among elderly individuals |
| 13.25-13.40 | Gérard Krause  
Differential serology - biomarker for evaluation of vaccination strategies |
| 13.40-14.00 | Jörg Vogel  
Towards precision editing of the human microbiota |
| 14.00 | Closure |