



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

- 09.00-09.20 **Rolf Müller**
Discovery and development of antibiotics from bacterial natural products
- 09.20-09.45 **Helga Rübsamen-Schaeff**
PREVYMIST™ (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

- 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 Pietschmann**
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

- 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**