



6th International Symposium of CRC 900
13th - 14th October 2022, Courtyard Hannover Maschsee

Chronic Infections: Microbial Persistence and its Control

Final Programme, last update 11.10.2022

Thursday 13.10.2022

Welcome

08.00 Venue opens: Registration and Coffee
09.00 **Welcome and Opening:** Thomas F. Schulz, Speaker of CRC 900

Session 1: Bacterial Persistence

Chairs: Britta Maecker-Kolhoff & Guntram Graßl

09.15 **Sebastian Suerbaum**, Ludwig-Maximilians-University München, Germany
Introduction to Bacteriology within the CRC 900

09.20 **Xavier Didelot**, University of Warwick, UK - online
An analytical journey from pathogen genomics to epidemiology

09.45 **Sebastian Suerbaum**, Ludwig-Maximilians-University München, Germany
Genome evolution and host adaptation in *Helicobacter pylori* infection

10.10 **Burkhard Tümmler**, Hannover Medical School, Germany
Airway infections with *Pseudomonas aeruginosa* in people with cystic fibrosis

10.35 Coffee Break

Chairs: **Burkhard Tümmler** & Britta Eiz-Vesper

11.00 **Christine Josenhans**, Ludwig-Maximilians-University München, Germany
Strategies how *Helicobacter pylori* influences innate signalling in human phagocytes and epithelial cells: be invisible, signal inside-out, and be flexible

11.25 **Guntram Graßl**, Hannover Medical School, Germany
Matrix metalloprotease 3 facilitates *Salmonella* replication and intestinal inflammation in mice

11.50 **Sina Bartfeld**, TU Berlin, Germany
Human gastric organoids reveal *Helicobacter pylori* tropism to differentiated pit cells dependent on chemotaxis

12.15 Lunch

Session 2: Immune Responses during Chronic Infections

Chairs: Abel Viejo-Borbolla & Melanie Brinkmann

13.10 **Reinhold Förster**, Hannover Medical School, Germany
Introduction to Immunology within the CRC 900

13.15 **Adrian Hayday**, King's College London, UK
Immune mechanisms to restore and maintain homeostasis following infection or cancer

13.40 **Immo Prinz**, UKE Hamburg, Germany / **Christian Könecke**, Hannover Medical School, Germany
Antigen-specific $\gamma\delta$ T cells contribute to control CMV after stem cell transplantation

14.05 **Sarina Ravens**, Hannover Medical School, Germany
Postnatal adaptation of $\gamma\delta$ T cells and implications for their response capabilities in infectious diseases

14.20 **Britta Maecker-Kolhoff** / **Britta Eiz-Vesper**, Hannover Medical School, Germany
Role of $\alpha\beta$ and $\gamma\delta$ T cells in patient-tailored adoptive immunotherapy to treat EBV infections and EBV-induced malignancies

14.35 **Ann M. Leen**, Texas Children's Hospital, USA - online
Antiviral Cell Therapies: Current and Future Challenges

15.00 **Reinhold Förster**, Hannover Medical School, Germany
MHC class Ia molecules facilitate MCK2-dependent MCMV infection of macrophages and virus dissemination to the salivary gland

15.25 **Heiner Wedemeyer** / **Markus Cornberg**, Hannover Medical School, Germany
Immunological scars after cure of hepatitis C virus infection: Long-HepC?

15.50 Coffee Break

Chairs: Sarina Ravens & Immo Prinz

16.20 **Luka Cicin-Sain**, HZI Braunschweig, Germany / **Ulrich Kalinke** Twincore Hannover, Germany
Cytomegalovirus (CMV) latency in human and murine cells

16.45 **Melanie Brinkmann**, TU Braunschweig / **Stephan Halle**, MHH, Germany
Tête-à-Tête between innate antiviral immunity and Herpesviruses

17.10 **Stephan Urban**, University Heidelberg, Germany
Discovery and development of bulevirtide/Hepcludex, the first approved medication to treat chronic Hepatitis D infections.

17.45 Meeting in Front of the Hotel, Bus Shuttle to the **Networking Event** at Wilhelm-Busch-Museum

Ca. 19.30 **Conference Dinner** at the Courtyard Hotel followed by the **Evening Event**

Friday 14.10.2022

08.00 Venue opens

Session 3: Chronic Viral Infections

Chairs: Thomas Krey & Gisa Gerold

- 09.00 **Thomas F. Schulz**, Hannover Medical School, Germany
[Introduction to Virology within the CRC 900](#)
- 09.05 **Noam Stern-Ginossar**, Weizmann Institute, Israel
[The molecular principles governing CMV infection outcome](#)
- 09.30 **Thomas F. Schulz**, Hannover Medical School, Germany
[Kaposi Sarcoma Herpesvirus Latent Nuclear Antigen \(LANA\): a regulator of latency and reactivation](#)
- 09.55 **Beate Sodeik**, Hannover Medical School, Germany
[A hitchhiker's guide through the cell – The world according to capsids of alphaherpesviruses](#)
- 10.20 **Martin Messerle**, Hannover Medical School, Germany
[Functions of UL25 family proteins in mouse cytomegalovirus infection](#)
- 10.45 Coffee Break

Chairs: **Christine Josenhans & Beate Sodeik**

- 11.15 **Christine Goffinet**, Charité Berlin, Germany
[Pharmacological inhibition of bromodomain and extra-terminal proteins induces NRF-2-mediated inhibition of SARS-CoV-2 replication and is subject to viral antagonism](#)
- 11.45 **Thomas Pietschmann**, Twincore Hannover, Germany
[The role of human lipoproteins for hepatitis C virus persistence](#)
- 12.05 **Thomas Krey**, University of Lübeck, Germany
[An HCV E1E2 glycoprotein complex provides structural insights into HCV neutralization](#)
- 12.30 **Gisa Gerold**, University of Veterinary Medicine Hannover, Germany
[Identification of hepatitis C virus entry factor networks by quantitative interaction proteomics](#)
- 13.00 Lunch

Chairs: **Christine Goffinet & Luka Cicin-Sain**

- 14.00 **Joseph Marcotrigiano**, National Institute of Allergy and Infectious Diseases, National Institutes of Health, USA
[Entry of Hepatitis C Virus](#)
- 14.25 **Abel Viejo-Borbolla**, Hannover Medical School, Germany
[Herpes simplex virus modulates axonal outgrowth to facilitate infection of neurons](#)

14.50 **Anne Cliffe**, School of Medicine, University of Virginia, USA - online
[Unique Mechanisms of Lytic Gene Induction during Reactivation of HSV from Latent Infection](#)

15.15 Coffee Break

Chairs: **Ulrich Kalinke & Thomas Pietschmann**

- 15.45 **Paul Lehner**, University of Cambridge, UK
[How HUSH protects the genome from the reverse flow of genetic information](#)
- 16.10 **Michaela Gack**, Lerner Research Institute, Cleveland Clinic, USA - online
[Immunostimulatory Noncoding RNAs in Viral Infection and Disease](#)
- 16.35 **Farewell:** Thomas F. Schulz, Sebastian Suerbaum, Reinhold Förster