

Saturday, May 30<sup>th</sup>, 2015

**Session VI: Regulating replication and persistence**

**Chair: Heiner Wedemeyer**

- 09:00 **J. Marcotrigiano, Piscataway, USA**  
"Hepatitis C Virus Envelope Glycoprotein 2 Structure: What to Expect from the Unexpected"
- 09:30 **T. von Hahn, Hannover, Germany**  
"Effects of variation in the cellular receptor SR-BI and its endogenous ligands on HCV infection"
- 09:50 **M. Evans, New York, USA**  
"Breaking the hepatitis C virus species barrier"
- 10:20 **T. Pietschmann, Hannover, Germany**  
"ABHD5/CGI-58, the causative protein for Chanarin-Dorfman syndrome, supports hepatitis C virus assembly and release"
- 10:40 **M. Messerle, Hannover, Germany**  
"Chasing the function of the mouse cytomegalovirus tegument protein M25"
- 11:00 **T. Schulz, Hannover, Germany**  
"Chromatin components determine the intranuclear localisation and persistence of gammaherpesviral and – retroviral genomes"
- 11:15 **Coffee break**

**Session VII: Bacterial adaptation to the microenvironment**

**Chair: Christine Josenhans**

- 11:45 **R. Haas, München, Germany**  
"Helicobacter pylori- host cell interaction: novel insights, strategies and mechanisms"
- 12:15 **S. Suerbaum, Hannover, Germany**  
"Bacterial genome dynamics during chronic Helicobacter pylori infection"
- 12:45 **B. Tümmler, Hannover, Germany**  
"Genome diversity of the major Pseudomonas aeruginosa clones C and PA14"
- 13:05 **F. Bange, Hannover, Germany**  
"Mycobacterial adaptation to environmental changes during chronic infection"
- 13:25 **Closings Remarks – S. Suerbaum**
- 13:40 **Lunch / Departure**

**Contact Speaker of CRC 900:**

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**Location Courtyard by Marriott Hannover Maschsee**

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**How to find the venue by car:**

**From the A7 (Kassel or Hamburg):** Exit Hannover Anderten, Südschnellweg (B65), Exit Maschsee / AWD Arena, turn right into Rudolf-von-Bennigsen-Ufer, turn left into Arthur-Menge-Ufer, you will find the hotel on the left hand side.

**From the A2 (Ruhrgebiet):** Exit H.-Herrenhausen, Leineufer, Westschnellweg / Bremer Damm direction Universität, Leibnizufer, turn right into Culemannstrasse, turn right into Arthur-Menge-Ufer, you will find the hotel on the left hand side.

**From the A37 (Celle):** Autobahndreieck Misburg, Messe-Schnellweg (A37), Exit Pferdeturm, direction Hannover Zentrum, Hans-BöcklerAllee, turn left into Willy-Brandt-Allee, straight ahead into Arthur-Menge-Ufer, you will find the hotel on the left hand side.

**Generally:** The easiest way to find the hotel, is to follow the signs "Maschsee" or "AWD Arena". Parking space is available.



**3<sup>rd</sup> International Symposium of the CRC 900**

Chronic Infections: „Microbial Persistence and its Control“

Speaker: Thomas F. Schulz

Deputy Speaker: Sebastian Suerbaum

May 28<sup>th</sup> – 30<sup>th</sup>, 2015



## Welcome Words

Dear Colleagues,

It is a great pleasure to welcome you to the third International Symposium of the Collaborative Research Centre 900 "Chronic Infections: Microbial Persistence and its Control". Now in its second funding period (2014-2018), CRC 900 was established in 2010 to investigate the multiple facets of microbial persistence, ranging from properties of persisting microbes to their interaction with host cells and the immune system. We have invited international experts on these topics to promote the interaction of our collaborative research centre with colleagues across the globe. We are looking forward to two days of scientific exchange and discussions and hope to present not only the work that is ongoing in CRC 900, but also aspects of Hannover cultural life. I am looking forward to meeting you all and hope that you will enjoy the conference and your visit to Hannover.

Thomas F. Schulz, MD  
Speaker, CRC 900

## Programme

### Thursday, May 28<sup>th</sup>, 2015

- 12:30 -  
13:30 Arrival, check in, snack  
13:30 Welcome to Symposium - T. F. Schulz

### Session I: Interferon-dependent antiviral restriction

Chair: Thomas Pietschmann

- 13:45 **T. Dobner, Hamburg, Germany**  
"Intrinsic immune mechanisms restricting adenovirus infections"  
14:15 **R. Everett, Glasgow, UK**  
"The dynamic response of IFI16 and PML Nuclear Body components to HSV-1 infection"  
14:45 **L. Cicin-Sain/H. Hauser, Braunschweig, Germany**  
"Role of IFN in CMV latency in endothelial cells"  
15:05 **E. Latz, Bonn, Germany**  
"Inflammasome activation in inflammatory diseases"  
15:35 **M. Trilling, Essen, Germany**  
"From immune evasion to novel antiviral compounds"  
16:05 **Coffee break**

### Session II: DNA sensors and cyclic dinucleotide signalling in host cells and bacteria

Chair: Beate Sodeik

- 16:40 **I. Cristea, Princeton, USA**  
"Virology meets Proteomics: Mechanisms of Host Defense versus Viral Immune Evasion"  
17:10 **A. Ablasser, Lausanne, Switzerland**  
"Intracellular DNA sensing mechanisms during pathogen infection"  
17:40 **G. Zhang/T. Schulz, Germany**  
"Kaposi Sarcoma Herpesvirus LANA recruits an innate immune sensor to facilitate reactivation from latency"  
17:55 **S. Häußler, Hannover, Germany**  
"c-di-GMP-dependent control of translation in Pseudomonas aeruginosa"  
18:15 **Dinner**  
19:40 **"Discussions on the Maschsee"** (CRC 900 project leaders and invited guests), **meeting point "Nordufer" quay**

### Friday, May 29<sup>th</sup>, 2015

### Session III: New imaging approaches to monitor cellular and intracellular events

Chair: Tim Sparwasser

- 09:00 **T. Lämmermann, MPI Freiburg, Germany**  
"Neutrophil swarming at sites of inflammation and infection"  
09:30 **B. Sodeik, Hannover, Germany**  
"The importins of HSV1 nuclear targeting"  
09:50 **R. Förster, Hannover, Germany**  
"Cytotoxic T cell killing dynamics of virus-infected cells"  
10:15 **Coffee break**

### Session IV: Cellular responses

Chair: Reinhold Förster

- 11:00 **J. Kuball, Utrecht, The Netherlands**  
"Diversity in gdT cells: a blessing and a curse for targeting infection and cancer"  
11:30 **I. Prinz/Ch. Könecke, Hannover, Germany**  
"Towards the use of antigen-specific  $\gamma\delta$  T lymphocytes for CMV control"

### Friday, May 29<sup>th</sup>, 2015

- 11:50 **R. Thimme, Freiburg, Germany**  
"Novel insights into HBV and HCV-specific CD8 T cell immunity"  
12:20 **H. Wedemeyer, Hannover, Germany**  
"Heterogeneity of co-regulatory receptor hierarchies regulates CD8 T cell function in chronic hepatitis C"  
12:40 **T. Sparwasser, Hannover, Germany**  
"Modulation of T cell immunity during mycobacterial infection"  
13:00 **Lunch**

### Session V: Inflammation

Chair: Sebastian Suerbaum

- 14:00 **Ch. Goffinet, Hannover, Germany**  
"Cell-intrinsic innate immunity to HIV-1 infection in macrophages"  
14:20 **M. Brinkmann, Braunschweig, Germany**  
"Detection and Evasion: Cytomegalovirus and innate immune responses"  
14:40 **P. Broz, Basel, Switzerland**  
"Interferon-stimulated genes regulate inflammasome activation by Gram-negative bacteria"  
15:10 **Ch. Josenhans, Hannover, Germany**  
"Novel insights into H. pylori-host interaction"  
15:30 **Coffee break**  
16:10 **J. Jung, Los Angeles, USA**  
"Host Nucleic Sensing vs Viral Evasion"  
16:40 **M. Hornef, Hannover, Germany**  
"Ontogeny of the enteric mucosal immune system"  
17:00 **A. Viejo-Borbolla, Hannover, Germany**  
"A novel strategy of immune and neuromodulation mediated by a human herpesvirus"  
18:00 **Guided tour – New Town Hall** (Models of the city, the Hodler Hall etc.)  
19:00 **Dinner – New Town Hall, Gartensaal**  
(CRC 900 project leaders and invited guests)