

1st Hannover Symposium on Infection Susceptibility Programme:

Monday, 30th of September:

08:00 – 09:30 Coffee and Registration

Opening Session

09:30 – 09:45 **Welcome Björn Thümmler (MWK)**

09:45 – 09:55 **Welcome Michael Manns (MHH)**

09:55 – 10:05 **Welcome Dirk Heinz (HZI)**

10:05 – 10:15 **Welcome Thomas Schulz (MHH, RESIST)**

10.15-11.00 **Beate Kampmann, London School of Hygiene & Tropical Medicine, UK**
RESIST Tuberculosis: towards understanding susceptibility and prevention in children

Scientific Session 1: Microbial Communities

Chair: Rita Gerardy-Schahn

11.00 – 11.30 **Soren Molin, Technical University of Denmark, Denmark**
Aminoglycoside resistance in clinical strain of Pseudomonas aeruginosa is associated with severe changes in ribosome structure and function

11.30 – 12.00 **Axel Brakhage, University Jena, Germany**
Host-pathogen interactions of human-pathogenic fungi: the case of Aspergillus fumigatus

12.00 – 12.30 **Rolf Müller, HIPS, RESIST; Germany**
Analysing bacterial inter- and intraspecies chemical interaction in space and time

12.30 – 13.00 **Franziska Faber, Universität Würzburg; Germany**
The metabolic footprint of commensal Clostridia in the large intestine

13.00 – 14.00 Lunch

Scientific Session 2: Microbial Shaping of the Immune System

Chair: Alice McHardy

14.00 – 14.30 **Mathias Hornef, RWTH Aachen, Germany**
Susceptibility of the neonatal host to enteric infection

14.30 – 15.00 **Till Strowig, HZI, RESIST**
Investigating the interplay of microbiota and host: From bugs to phenotypes

15.00 – 15.30 **Dorothee Viemann, MHH**
How the newborn impacts on the microbial shaping of its immune system

15.30 – 16.00 **Sofia Forslund, Max Delbrück Center for Molecular Medicine, Germany**
Gut eu- and dysbiosis in host health and disease

16.00 – 16:30 Tea/Coffee break

Scientific Session 3: Shaping the Immune Response

Chair: Thomas Werfel

16.30 – 17:00 **Annette Oxenius, ETH Zürich, Switzerland**
Regulation of adaptive immunity in chronic viral infections

17.00 – 17.30 **Petter Brodin, Karolinska Institutet, Sweden**
Human systems Immunology

17.30 – 18.00 **Reinhold Förster, MHH, RESIST**
Cellular dynamics of MCMV control

18.00 – 18.30 **Immo Prinz, MHH, RESIST**
Innate and adaptive gamma-delta T cells

18.30 – 19:30 Drinks + Poster

19.30 Dinner with all participants at Herrenhausen Palace

Tuesday, 1st of October:

Scientific Session 4: Modulating the Immune Response

Chair: Jochen Hühn

- 08:30 – 09.00 **Xavier Saelens; University of Genf, Belgium**
Disease modulating vaccines against influenza and human respiratory syncytial virus
- 09.00 – 09.30 **Bruno Correia, Ecole Polytechnique Fédérale de Lausanne, Switzerland**
Trivalent cocktail of de novo designed immunogens enables the robust induction and focusing of functional antibodies in vivo
- 09.30 – 09.50 **Thomas Krey, RESIST, Germany**
The Good, the Bad and the Flexible – Neutralization epitopes in the HCV glycoproteins
- 09:50 – 10:20 **Florian Klein, University Hospital of Cologne, Germany**
Broadly neutralizing antibodies for targeting HIV-1

10.20 – 10.45 Coffee break

Scientific Session 5: Genetic Determinants of the Immune Response

Chair: Reinhold Schmidt

- 10.45 – 11:15 **Jean-Laurent Casanova, Rockefeller University, US**
Toward a genetic theory of childhood infectious diseases
- 11.15 – 11.40 **Bodo Grimbacher, CCI Freiburg, RESIST**
The relationship of infections and inflammation
- 11.40 – 12.10 **Sandra Pellegrini, Institut Pasteur, France**
Cellular response to type I interferons, from TYK2 to USP18
- 12:10 – 12.35 **Thomas Pietschmann, TWINCORE, RESIST**
Genetic determinants of severe respiratory syncytial virus infection in infants
- 12.35 – 13.00 **Yang Li, HZI, RESIST**
Integration of multi-omics data for understanding immune response

13.00 – 14.00 Lunch

Scientific Session 6: Viral Persistence

Chair Albert Osterhaus

- 14:00 – 14.30 **John Sinclair, University of Cambridge, UK**
Understanding human cytomegalovirus latency in order target the latent reservoir
- 14.30 – 15.00 **Jean-Pierre Vartanian, Institut Pasteur, France**
Cellular restriction factors of hepatitis B virus
- 15.00 – 15.30 **Paul Lehner, University of Cambridge; UK**
The HUSH epigenetic transcriptional repressor complex – defending the genome from retroelement attack

15.30 – 16.00 Tea/Coffee

Session 7: Viral Persistence and Replication

Chair: Markus Cornberg

- 16:00 – 16.30 **Charles Bangham, Imperial College, London, UK**
The human leukaemia virus HTLV-1: chromatin structure, epigenetics and regulation of latency
- 16:30 – 17.00 **Patrick Lomonte, Université de Lyon, France**
Epigenetic regulation of herpes simplex virus 1 latency mediated by promyelocytic leukemia nuclear bodies
- 17.00 – 17.30 **Bill Sugden, University of Wisconsin, Madison, US**
Stable Transformation of primary B-cells by Kaposi's Sarcoma Herpes Virus and Epstein-Barr Virus: an In Vitro Model for the Development of Primary Effusion lymphoma
- 17:30 – 17.45 **Closing Remarks, Gesine Hansen, RESIST, MHH**

Public Evening Lecture (in German), doors open: 18:45

- 19:00 – 20:45 Public Evening Lectures:
Achim Kautz (Hepatitis, Deutsche Leberhilfe e.V.)
Gerd Klock (Primary Immunodeficiencies, DSAI)
Affected Persons and RESIST Scientists

Brezel & Wine