

Joint International Symposium of CRC 900 and Cluster of Excellence RESIST: 04th - 05th October 2021, Courtyard Hannover Maschsee

Determinants of Infection Susceptibility and Microbial Persistence

Final Programme, last update 23.09.2021

Monday 04.10.2021

Welcome

08.00	Registration and Coffee
08.45h	Welcome and Opening: Thomas Schulz

Session 1: Host Response during Chronic Infections Chairs: Sebastian Suerbaum & Melanie Brinkmann

09.00	Immo Prinz, UKE Hamburg, Germany
	$\gamma\delta$ T cell responses to CMV reactivation in HSCT patients
09.20	Sarina Ravens, Hannover Medical School, Germany
	Impact of age, microbial exposure and malaria on the development of human $\gamma\delta$ T cell effector subsets
09.40	Britta Eiz-Vesper / Britta Maecker-Kolhoff, Hannover Medical School, Germany
	Patient-tailored adoptive immunotherapy with EBV-specific T cells from
	related and unrelated donors: patient monitoring, donor testing and beyond
10.00	Abel Viejo-Borbolla, Hannover Medical School, Germany
	Novel immune and neuromodulatory strategies mediated by human
	herpesviruses
10.20	Ulrich Kalinke Twincore Hannover, Germany
	Single-cell RNA sequencing analysis of HCMV treated monocyte-derived dendritic cells

10.40 Coffee Break

Chairs: Reinhold Förster & Sarina Ravens

11.10	Heiner Wedemeyer / Markus Cornberg, Hannover Medical School, Germany
	Host Responses after HCV cure: Long-HepC?

11.30 **Eleanor Barnes**, University of Oxford, UK - remote Vaccines in chronic hepatitis-early results from a novel therapeutic HBV vaccine (and lessons from HCV)

12.00	Thomas Pietschmann / Dorothea Bankwitz, Twincore Hannover, Germany
	Correlates of humoral immune protection in acute resolving and chronic HCV
	infection
12.20	Maura Dandri, UKE Hamburg, Germany
	Determinants of HBV and HDV infection susceptibility and activity

12.50 Lunch

Session 2: Microbial Communities and Host Response Chairs: Dirk Schlüter & Marco Galardini

14.00	Sebastian Suerbaum, Ludwig-Maximilians-University München, Germany
	Helicobacter pylori genome and methylome evolution during chronic infection
14.20	Burkhard Tümmler, Hannover Medical School, Germany
	Microevolution of Pseudomonas aeruginosa in cystic fibrosis airways
14.40	Till Strowig, HZI Braunschweig, Germany
	Exploring microbial competition for the next generation of anti-infectives
15.00	Guntram Graßl, Hannover Medical School, Germany
	Salmonella effectors mediating intracellular survival in macrophages

15.20 Coffee Break

Chairs: Christine Josenhans & Burkhard Tümmler

15.50	Franziska Faber, Julius-Maximilians-University Würzburg, Germany
	The metabolic footprint of commensal Clostridia and Erysipelotrichia
16.20	Felix M. Key, MPI Infection Biology Berlin, Germany
	On-person adaptive evolution of Staphylococcus aureus during atopic
	dermatitis increases disease severity
16.50	Pradeep Singh, University of Washington, USA, USA - remote
	Pathogen Diversification During a Human Infection, Lessons from Cystic
	Fibrosis

18.00 Social Event

20.00 Conference Dinner

Tuesday 05.10.2021

Get together

08.00 Venue opens, Coffee, Tea

Session 3: SARS-CoV-2 / Covid-19

Chairs: Thomas Pietschmann & Sabrina Schreiner

09.00	John Ziebuhr, Justus-Liebig-University Gießen, Germany
	Coronavirus replicase gene-encoded nucleotidyltransferase activities
09.30	Volker Thiel, University of Bern, Switzerland - remote
	SARS-CoV-2: from gene to function
10.00	Wendy S. Barclay, Imperial College, UK - remote
	Evolution of the spike cleavage site in SARS-CoV-2 enhances airborne
	transmission

10.30 Coffee break

Chairs: Susanne Eschenburg & Ulrich Kalinke

11.00	Thomas Krey, University Lübeck, Germany
	Identification and characterization of neutralizing antibodies targeting the
	spike protein of β-Coronaviruses
11.20	Reinhold Förster, Hannover Medical School, Germany
	Immune responses against SARS-CoV-2 variants after heterologous and
	homologous mRNA- and vector-based vaccination
11.40	Kay Grünewald, CSSB Hamburg, Germany
	Structural cell biology reveals a molecular pore spanning the double
	membrane of the coronavirus replication organelle
12.00	Luka Cicin-Sain, HZI Braunschweig, Germany
	Long-term protection against SARS-CoV2 by a single shot immunization with
	a herpesvirus based vaccine vector.
12.30	Lunch

Session 4: Innate Immunity and Intrinsic Response

Chairs: Britta Eiz-Vesper & Abel Viejo-Borbolla

13.30	Susan Weiss, University of Pennsylvania, USA - remote
	Coronavirus activation and antagonism of double-stranded RNA induced
	antiviral pathways
14.00	Olivia Majer, MPI Infektionsbiologie Berlin, Germany
	Compartmentalized signalling control of endosomal TLRs maintains immune
	tolerance to self-nucleic acids
14.30	Beate Sodeik, Hannover Medical School, Germany
	On host proteins promoting or restricting the function of herpesviral capsids
14.50	Christine Goffinet, Charité Berlin, Germany
	Single Cell RNA-Sequencing Reveals Forced Transcriptional Modulation and
	Impaired Immunity upon HIV-1 Reactivation in CD4 ⁺ T-Cells
15.10	Melanie Brinkmann, TU Braunschweig / Stephan Halle, MHH, Germany
	Herpesviruses meet innate immunity

15.30 **Christine Josenhans**, Ludwig-Maximilians-University München, Germany Helicobacter pylori cagPAI-dependent immunomodulatory activities on human host cells

15.50 Coffee break

Session 5: Predisposing factors for chronic and acute infection: genetics and inflammation Chairs: Gesine Hansen & Reinhold Schmidt

16.20	Doris Steinemann, Hannover Medical School, Germany
	Inborn errors of immunity – from small to large genomic alterations
16.40	Jean-Laurent Casanova, Rockefeller University, USA - remote
	Genetic and immunological causes of life-threatening COVID-19
17.10	Malte Rühlemann, Kiel University. Germany
	Genetic determinants of host-microbiome interactions
17.40	Trine Mogensen, Aarhus University, Denmark
	Studies of rare inborn errors of immunity in patients with recurrent
	lymphotropic Mollaret's meningitis reveal an important antiviral role of
	autophagy in the central nervous system

18.10 Closing Remarks and Farewell Thomas Schulz