

1st Retreat of the Cluster of Excellence RESIST 4th-5th Februar 2021



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Thursday, February 4th, 2021

09:00 Welcome: Prof. Thomas F. Schulz

Unit A: Genetic Determinants. Chair: Prof. Hansen

09:15 A1. "Susceptibility for and mechanisms of severe pediatric RSV infection." Prof. Thomas Pietschmann, Prof. Gesine Hansen

09:35 A2. "Exploring the diverse molecular causes of primary immunodeficiency." Dr. Faranaz Atschekzei, Dr. Max Schieck

09:55 "The German PIDnet cohort for patients with inborn errors of immunity." Prof. Bodo Grimbacher

10:05 A3. "Neuronal models and the RESIST VZV Cohort to understand susceptibility to VZV." Prof. Viejo-Borbolla, Prof. Martin Stangel

10:25 A4. "Host determinants of severe herpes infections in atopic dermatitis." Prof. Thomas Werfel

10:45 Introduction of the W1 Professorship. "Computational Virology at Twincore." Prof. Chris Lauber

11:05 Introduction of the W1 Professorship. "Introduction to Gemma: a bioinformatic platform to analyze, store and register curated immunogenetic data." Prof. Michele Proietti

11:25 *Coffee break*

Unit B: Immune Responses. Chair: Prof. Förster, Prof. Hühn

11:55 B1. "Impact of microbiota on the development of the immune system in preterm neonates." Prof. Dorothee Viemann

12:15 B2. "The microbiome - a trigger in arthritis?" Prof. Till Strowig

12:35 B3. "Impact of probiotics on the maturation of immune cell repertoires in preterm neonates." Prof. Sarina Ravens

12:55 B4. "Elucidation of the immune defense mechanisms by NLRPs and their modulation." PD Dr. Susanne Eschenburg

13:15 *Lunch break*

14:15 B5. "Monitoring immunity and susceptibility to herpes virus infection in senior individuals." Dr. Lennart Rössner, Dr. Ivan Odak

14:35 B6. "Role of NFAT signaling in T-cell control of CMV infection." Dr. M. Zeeshan Chaudhry (AG Cicin-Sain)

14:55 B7. "Antiviral immunity and ageing." Prof. Guus Rimmelzwaan

15:15 *Coffee break*

15:45 B8. "Exploring the immune-dynamics and therapeutic potential of gamma-delta T cell responses in chronic HBV infection." Prof. Markus Cornberg, Dr. Elena Bruni (AG Prinz)

16:05 B9. "Molecular basis of HBV vaccination non-responsiveness." Prof. Ulrich Kalinke

16:25 B10. "HCV Vaccine." Prof. Thomas Krey

16:45 B11. "Is there a role for biliary microbiota in the pathogenesis of PSC?" PD Dr. Benjamin Heidrich

Friday, February 5th, 2021

09:00 B12. "Structural and functional analysis of deubiquitinating enzymes as regulators and therapeutic targets in bacterial infections." Prof. Dirk Schlüter

09:20 "Strategies to achieve Immune control of hepatitis D virus infection." Prof. Heiner Wedemeyer

09:40 "Innate and adaptive gd T cells in health and disease." Prof. Sarina Ravens

Unit C: Microbial Communities. Chair: Prof. Müller

10:00 C1. "Transcriptional profiling of Pseudomonas aeruginosa infections." Dr. Adrian Kordes (AG Häußler)

10:20 C2. "Identifying host factors that drive biofilm formation." Dr. Rodrigo Gutierrez Jauregui (AG Förster)

10:40 C3. "Modulation of Polymicrobial Communities in Chronic Lung Diseases: Status and Outlook." Dr. Martin Empting

11:00 Introduction of the W2 Professorship. "Genotype-to-phenotype models in bacterial pangenomes." Prof. Marco Galardini

11:20 *Coffee break*

Unit D: Viral Persistence. Chair: Prof. Grünewald

11:50 D1. "A Comparative Approach to β - and γ -herpesvirus persistence." Prof. Thomas F. Schulz

12:10 D2. "From the assembly of sturdy herpesvirus capsids to their destruction." Prof. Beate Sodeik

12:30 D3. "A molecular pore spanning the double membrane of the coronavirus replication organelle." Prof. Kay Grünewald

12:50 *Lunch break*

13:50 D4. "Towards Allosteric Modulation of cGAS/OAS family of innate immune sensors as a means to control infection and inflammation." PD Dr. Roman Fedorov

14:10 Introduction of the W2 Professorship. "Double-edged role of PML nuclear bodies during Human Adenovirus Infection." Prof. Sabrina Schreiner

14:30 Introduction of the W2 Professorship. "Infectious diseases and regenerative medicine: macrophages in disease modeling and therapy." Prof. Nico Lachmann

14:50 Introduction of the W1 Professorship. "Spatiotemporal organization of herpesvirus morphogenesis." Prof. Jens Bosse

15:10 SI Kohorte. Prof. Thomas Werfel, Dr. Lennart Rössner

15:30 Separate Sessions (virtual rooms):

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