



DZIF Academy 2023

10th Translational DZIF-School

Nov 29th - Dec 1st, 2023
Lübeck, Germany | Hotel Atlantic

Program

www.dzif-autumn-school.de



Dear Colleagues and Friends,

It is my pleasure and privilege to invite you to join the 10th Translational DZIF School, which will be held in presence in Lübeck from 29th November to 1st December 2023. With a special focus on translational science we aim to bring together clinical and basic researchers (PhDs, PostDocs and junior group leaders) to discuss latest developments in Infectious Diseases and Clinical Microbiology. In this year's program major findings from the thematic translational units Malaria and Neglected Tropical Diseases, Gastrointestinal Infections, Hepatitis and Emerging Infections will be presented. In addition, DZIF clinical leave and MD/PhD stipendiaries will present their work in separate sessions to explore their data with established researchers in the field. Furthermore, all other participants will be given the possibility to present their work within the scope of a poster session.

I am looking forward to share with you some exciting days in Lübeck, learning from each other in the dynamic and fastidious field of Infectious Diseases Research.

See you in Lübeck!

Best regards



Prof. Dr. med. Jan Rupp

Director
Department of Infectious Diseases and Microbiology
University of Lübeck

12:00 - 14:00	Registration
14:00 - 14:15	Welcome Note <i>Jan Rupp University of Lübeck</i>
14:15 - 15:15	Opening Lecture <i>Chair: Jan Rupp University of Lübeck</i> What can we learn from each other? Functional microbiome analysis in the lung <i>Sébastien Boutin University of Lübeck</i>
15:15 - 16:15	Workshop "Networking at conferences and events" <i>Paul Charlton German Center for Infection Research, Munich</i>
16:15 - 16:30	Coffee Break
16:30 - 17:30	Presentation of DZIF fellowship holders <i>Chair: Friederike Reinsberg University Medical Center Hamburg-Eppendorf</i>
16:30	Clinical and pathogenetic features of acute kidney injury in Lassa fever patients at the Irrua Specialist Teaching Hospital, Edo State, Nigeria <i>Matin Kohsar University Medical Center Hamburg-Eppendorf</i>
16:45	Bacteriophage lysis in Acinetobacter baumannii and the role of its capsula <i>Annika Claßen University Hospital Cologne</i>
17:00	Genomic landscape of M. avium complex in Germany <i>Nils Wetzstein University Hospital Frankfurt</i>
17:15	The NLRP3 inflammasome drives the type I IFN-response via the cGAS-STING pathway in Tuberculosis <i>Claudius Gottschalk University Hospital Heidelberg</i>
17:30 - 18:30	TTU Emerging Infections <i>Chair: Patrick Affeldt University Hospital Cologne</i>
17:30	New vaccines against emerging zoonotic infections: From animal models to clinical evaluation <i>Asisa Volz University of Veterinary Medicine Hannover</i>
18:00	Chimeric mouse models to study emerging zoonotic viruses <i>Beatriz Escudero Pérez Bernhard Nocht Institute for Tropical Medicine, Hamburg</i>
From 18:30	Dinner

08:30 - 09:30 Presentation of DZIF fellowship holders*Chair: Lukas Macke | Ludwig-Maximilians-Universität Munich***08:30 Early ART preserves HIV-specific cytotoxicity in follicular CD8 T-cells***Julia Roeder | Ludwig-Maximilians-Universität Munich***08:45 Translation of advanced cell therapies (ACTs) for HIV+ patients into the clinic***Lea Schwarze | University Medical Center Hamburg-Eppendorf***09:00 Generation of Adeno-associated virus vectors encoding a CRISPR/Cas9 kill switch system to reduce the expression of broadly neutralizing antibodies against HIV-1***Amélie Sophie Belosevic | Heidelberg University***09:15 Harnessing NK cell effector function against HIV-1-infected microglia for immune control of the brain reservoir***Friederike Reinsberg | University Medical Center Hamburg-Eppendorf***09:30 - 10:30 TTU Hepatitis***Chair: Johannes Dirks | University Hospital Würzburg***09:30 Hepatitis D: Shedding light on an overlooked infection***Marc Lütgehetmann | University Medical Center Hamburg-Eppendorf***10:00 Generation of monoclonal antibodies targeting fiberknob that neutralizes HAdV-5 infection***Britta Möhl-Meinke | Technical University of Munich***10:30 - 11:00 Coffee Break****11:00 - 12:00 TTU Gastrointestinal Infections***Chair: Nils Wetzstein | University Hospital Frankfurt***11:00 TTU Gastrointestinal Infections***Benjamin Heidrich | Hannover Medical School***11:30 Specific functions of gut microbiota governing infections within the TIPINF study***Marius Vital | Hannover Medical School***12:00 - 13:00 Lunch****13:00 - 14:00 Workshop "Advanced Clinician Scientist in DZIF"***Julia Roeder | Ludwig-Maximilians-Universität Munich and**Benjamin Heidrich | Hannover Medical School***14:00 - 15:00 Flash Talks***Chair: Nadja Käding | University of Lübeck***#1 Assessing viral metagenomics for the diagnosis of acute undifferentiated fever in returning travellers: a multicenter cohort study***Alexandru Tomazatos | Bernhard Nocht Institute for Tropical Medicine, Hamburg***#2 Discovery of inhibitors of a divergent Plasmodium falciparum protein kinase***Nicolai Koch | Center for Integrative Infectious Disease Research, Heidelberg***#3 Genetically attenuated blood stage vaccines against malaria***Smilla Steinbrück | Center for Integrative Infectious Disease Research, Heidelberg***#4 Prevalence study of the microbiome and development of antibiotic resistance in children with Crohn's disease (CD)***Karin Fetter | Institute of Medical Microbiology, Justus Liebig University Giessen***#5 Differential expression analysis in multi-drug resistant Acinetobacter baumannii; Establishing RNAseq using the MinION platform***Aime Picornell | University Hospital Cologne***#6 Modulation of antibiotic efficacy by sequential therapy in E. coli causing urinary tract infections***Lisa Göpel | University of Lübeck***#7 Longitudinal dynamics and characterization of the NK cell repertoire after lung transplantation and correlation to clinical parameters***Nele-Marie Hagen | Hannover Medical School, Transplant Immunology***#8 The role of cathepsin B in innate antifungal immunity in dendritic cell killing of Histoplasma capsulatum***Charlotte Rohr | University of Lübeck***#9 Characterization of the HCMV gB-specific B cell and antibody response***Linda Schlachter | University Hospital Cologne***#10 Relation of enhanced Hepatitis C genome replication to clinical parameters and treatment susceptibility***Tomke Arand | Center for Integrative Infectious Disease Research, Heidelberg***#11 Establishment and clinical validation of a laboratory developed multiplex PCR assay for absolute quantification of EBV, CMV, VZV, HSV 1, HSV 2 and β -globin from human tissue samples on a digital PCR system***Lisa Sophie Pflüger | University Medical Center Hamburg-Eppendorf***15:00 - 16:30 Coffee Break & Poster Session****16:30 - 18:00 Workshop "Insights in pharmaceutical industry"***Sibyll Escher & Thorsten Reuter & Alexander Baum | MSD Sharp & Dohme GmbH***18:00 - 19:30 Dinner****from 19:30 Networking Event**

08:30 - 09:30 Keynote Lecture*Chair: Jan Rupp | University of Lübeck*

Systematic identification of phageome-bacteriome-host cross-talk and its prevention role for precision phageome therapy

*Li Deng | Technical University of Munich***09:30 - 10:30 Presentation of DZIF fellowship holders***Chair: Claudius Gottschalk | University Hospital Heidelberg*

09:30 Characterization of the neutralizing antibody response against BKPyV to identify donors for BKPyV specific memory B-cell isolation

Patrick Affeldt | University Hospital Cologne

09:45 Microbial colonisation and B cell receptor signaling strength shape the development of the Marginal Zone B cell compartment

Johannes Dirks | University Hospital Würzburg

10:00 Identification of glycocalyx metabolizing enzymes in members of the biliary microbiota in patients with primary sclerosing cholangitis (PSC)

Benjamin Heidrich | Hannover Medical School

10:15 HelicoPTER – Regional Prevalence and Antibiotic Resistance of Helicobacter pylori Infection in Germany

*Lukas Macke | Ludwig-Maximilians-Universität Munich***10:30 - 11:00 Coffee Break****11:00 - 12:00 TTU Malaria and Neglected Tropical Diseases***Chair: Annika Claßen | University Hospital Cologne*

11:00 The research portfolio of the DZIF-TTU Malaria & Neglected Tropical Diseases

Michael Ramharter | Bernhard Nocht Institute for Tropical Medicine, Hamburg

11:30 Multi-Disease Combination Regimens for Mass Drug Administration

*Johannes Mischlinger | Bernhard Nocht Institute for Tropical Medicine, Hamburg***12:00 - 12:30 Presentation of DZIF fellowship holders***Chair: Matin Kohsar | University Medical Center Hamburg-Eppendorf*

12:00 Polyfunctional hepatitis D virus-specific CD4+ T-cell responses are detectable during low viremia time-points in patients chronically infected with the hepatitis D virus

Helenie Kefalakes | Hannover Medical School

12:15 Development of a live-attenuated monkeypox virus for use in improved diagnostics

*Vincent Klatt | Leibniz Institute of Virology, Hamburg***12:30 - 12:45 Closing Remarks****Venue and Travel**

ATLANTIC Hotel Lübeck*¹ | Schmiedestraße 9-15, Lübeck

Motel One Lübeck*² | Schüsselbuden 15, Lübeck

*¹ Conference Venue *² Hotel for Overnight

www.dzif-autumn-school.de/venue-and-travel

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Please join our LinkedIn group**DZIF Academy fellows**

In this group, the DZIF Academy fellows are given the opportunity to network and exchange ideas. Ask questions, share your successes, express your opinion - science thrives on exchange!





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