



DZIF Academy 2024

11th Translational DZIF-School

Sept 18th - 20th, 2024
Lübeck, Germany | Hotel Atlantic

Program

www.dzif-autumn-school.de

WELCOME NOTE

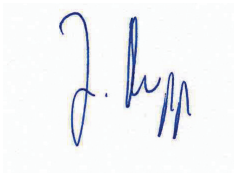
Dear Colleagues and Friends,

It is my pleasure and privilege to invite you to join the 11th Translational DZIF School, which will be held in Lübeck from 18th to 20th September 2024. 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 Infections of the Immunocompromised Host, Healthcare-Associated and Antibiotic-Resistant Bacterial Infections, HIV, Novel Antibiotics and Tuberculosis will be presented. In addition, DZIF fellowship holders 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

Wednesday, Sep 18, 2024 · PROGRAM

12:00 - 14:00 **Registration**

14:00 - 14:15 **Welcome Note**

Jan Rupp | University of Lübeck

14:15 - 15:15 **Opening Lecture**

Chair: Jan Rupp | University of Lübeck

Tuberculosis as success story for ID research

Christoph Lange | Research Center Borstel

15:15 - 16:15 **Workshop "Networking at conferences and events"**

Paul Charlton | German Center for Infection Research, Garmisch-Partenkirchen

16:15 - 16:30 **Coffee Break**

16:30 - 17:30 **Presentation of DZIF fellowship holders**

Chair: Friederike Reinsberg | University Medical Center Hamburg-Eppendorf

16:30 **Impact of mutations in the capsule gene locus on bacteriophage lysis in *Acinetobacter baumannii***

Annika Claßen | University Hospital Cologne

16:45 **Exploring the evolution of antimicrobial resistance in Enterobacterales during immunosuppressive therapy post kidney transplantation**

Kaan Kocer | University of Lübeck

17:00 **Neutralizing activity and BKPyV specific memory B-cell response in kidney transplant recipients and blood donors**

Patrick Affeldt | University Hospital Cologne

17:15 **Profiling a large HIV-1 elite neutralizer cohort reveals an exceptional CD4bs bNAb for HIV-1 prevention and therapy**

Lutz Gieselmann | Laboratory of Experimental Immunology, University of Cologne

17:30 - 18:30 **TTU HIV**

Chair: Lukas Macke | Ludwig-Maximilians-Universität Munich

17:30 **From Berlin to the City of Hope and back again – the long winding road towards an HIV cure**

Julian Schulze zur Wiesch | University Medical Center Hamburg-Eppendorf

18:00 **NK cell control of HIV-1 infection**

Angelique Hölzemer | University Medical Center Hamburg-Eppendorf

From 18:30 **Dinner**

PROGRAM · Thursday, Sep 19, 2024

08:30 - 09:30 **Presentation of DZIF fellowship holders**

Chair: Patrick Affeldt | University Hospital Cologne

08:30 The CD4+ T cell memory in Plasmodium falciparum malaria

Maria Mackroth | University Medical Center Hamburg Eppendorf

08:45 Disease-specific T cell receptors maintain pathogenic T helper cell responses in postinfectious Lyme arthritis

Johannes Dirks | University Hospital Würzburg

09:00 GastroPanel, Ghrelin and Leptin for non-invasive diagnosis of advanced gastric atrophy and intestinal metaplasia

Lukas Macke | Ludwig-Maximilians-Universität Munich

09:15 Identification of glycocalyx metabolizing enzymes in members of the biliary microbiota in patients with primary sclerosing cholangitis (PSC)

Benjamin Heidrich | Hannover Medical School

09:30 - 10:30 **TTU Novel Antibiotics**

Chair: Anna Marie Wunsch | University Hospital Cologne

Bringing bioactive secondary metabolites to the clinic – The story of Coralopyronin A

Miriam Große | Helmholtz Centre for Infection Research &

Andrea Schiefer | University Hospital Bonn

10:30 - 11:00 **Coffee Break**

11:00 - 12:00 **TTU Healthcare-Associated and Antibiotic-Resistant Bacterial Infections**

Chair: Johannes Dirks | University Hospital Würzburg

How healthcare-associated bacterial pathogens use the human microbiome as their major reservoir

Andreas Peschel | University of Tübingen

12:00 - 13:00 **Lunch**

13:00 - 15:30 **Networking Event: Lübecker Canal Cruise**

Discover Lübeck on a trip with a historical barge. The barge will take you on a tour of about one hour.



15:30 - 16:00 Flash Talks

Chair: Nadja Käding | University of Lübeck

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- #1 Immunogenicity of COVID-19 vaccination in immunocompromised patients
(Auto-COVID-VACC): Protocol for a multicenter prospective non-interventional study
Louise Cremer | University Hospital Cologne
-
- #2 Influence of non-pharmaceutical interventions during the COVID-19 pandemic on respiratory viral infections in Lübeck – a prospective population-based cohort study
Bjarne Meier | University of Lübeck
-
- #3 Inflammatory pattern upon acute respiratory distress syndrome (ARDS)
Rosa Schürmann | TWINCORE, Hannover
-
- #4 Advantages of Molecular Diagnostic in Community-Acquired Pneumoniae with Next Generation Sequencing
Tung Tran | University of Lübeck
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- #5 Co-incubation of Chlamydia muridarum and Enterococcus faecalis reveals inhibition of homotypic fusion of chlamydial inclusion as a potential modulator of colonisation resistance to chlamydial infection
Fleur Deitmar | University of Lübeck
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- #6 Development of loop-mediated isothermal amplification (LAMP) based detection systems for Burkholderia mallei and Burkholderia pseudomallei
Marie Sprunk | Institut für Mikrobiologie der Bundeswehr, München
-
- #7 MICROBIAL INTERACTIONS AS A FACTOR IMPACTING TREATMENT SUCCESS IN INFECTIOUS DISEASES
Kristina Gerdes | University of Lübeck
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- #8 Exploring the Interaction of Antidepressants and Antibiotics in the Context of Urinary Tract Infections
Tristan Aeschbacher | University of Lübeck
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16:00 - 17:30 Coffee Break & Poster Session

17:30 - 19:00 Workshop "Advanced Clinician Scientist in DZIF"

Claudia Beisel | Universitätsklinikum Heidelberg &

Sibylle Mellnhoff | University Hospital Cologne

from 19:00 Dinner

PROGRAM · Friday, Sep 20, 2024

08:30 - 09:15 **Presentation of DZIF fellowship holders**

Chair: Lennart Hermanussen | Leibniz-Institute of Virology, Hamburg

- 08:30** Sex differences in immunity to viral infections - Assessment of mechanisms underlying TLR-mediated immune responses to identify therapeutic targets

Claudia Beisel | Universitätsklinikum Heidelberg

- 08:45** Immune imprinting and pan-coronavirus neutralizing antibodies in individuals vaccinated against MERS-CoV and SARS-CoV-2

Anna Marie Wunsch | University Hospital Cologne

- 09:00** Prospective cohort-study for the investigation of the vaccine-induced immune response after vaccination against RESpiratory viruses in patients with hematological and ONcological diseaSEs

Sibylle Mellnghoff | University Hospital Cologne

09:15 - 10:30 **Workshop TI Bioresources, Biodata and Digital Health & Clinical Trial Office - "How can young scientists benefit and what you need to know about FlexFund applications"**

Ullrich Bethe | University of Cologne

Katharina Hofmann | Universitätsklinikum Heidelberg

Bettina Lorenz-Depiereux | Helmholtz Munich

Anna Wronska | Helmholtz Centre for Infection Research, Braunschweig

10:30 - 11:00 **Coffee Break**

11:00 - 12:00 **TTU Infections of the Immunocompromised Host**

Chair: Lutz Gieselmann | Laboratory of Experimental Immunology, University of Cologne

A long winding road to a novel cytomegalovirus inhibitor

Martin Messerle | Hannover Medical School

Improving T cell control of HCMV with a mAb targeting the immunosuppressive glycoprotein pUL11

Penelope Kay-Fedorov | Hannover Medical School

12:00 - 12:30 **Presentation of DZIF fellowship holders**

Chair: Kaan Kocer | University of Lübeck

- 12:00** HIV-1 infection of monocyte-derived microglia through cell-to-cell spread from CD4+ T cells

Frederike Reinsberg | University Medical Center Hamburg-Eppendorf

- 12:15** Lymphoid tissue organoids to investigate sex differences in HIV reservoir composition and size

Lennart Hermanussen | Leibniz-Institute of Virology, Hamburg

12:30 - 12:45 **Closing Remarks**

Venue and Travel

ATLANTIC Hotel Lübeck

Schmiedestraße 9-15 | 23552 Lübeck | Germany

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

Networking Event: Lübecker Canal Cruise

STÜHFF Lübecker Barkassenfahrt

An der Obertrave 15a | 23552 Lübeck | Germany

www.luebecker-barkassenfahrt.de

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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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