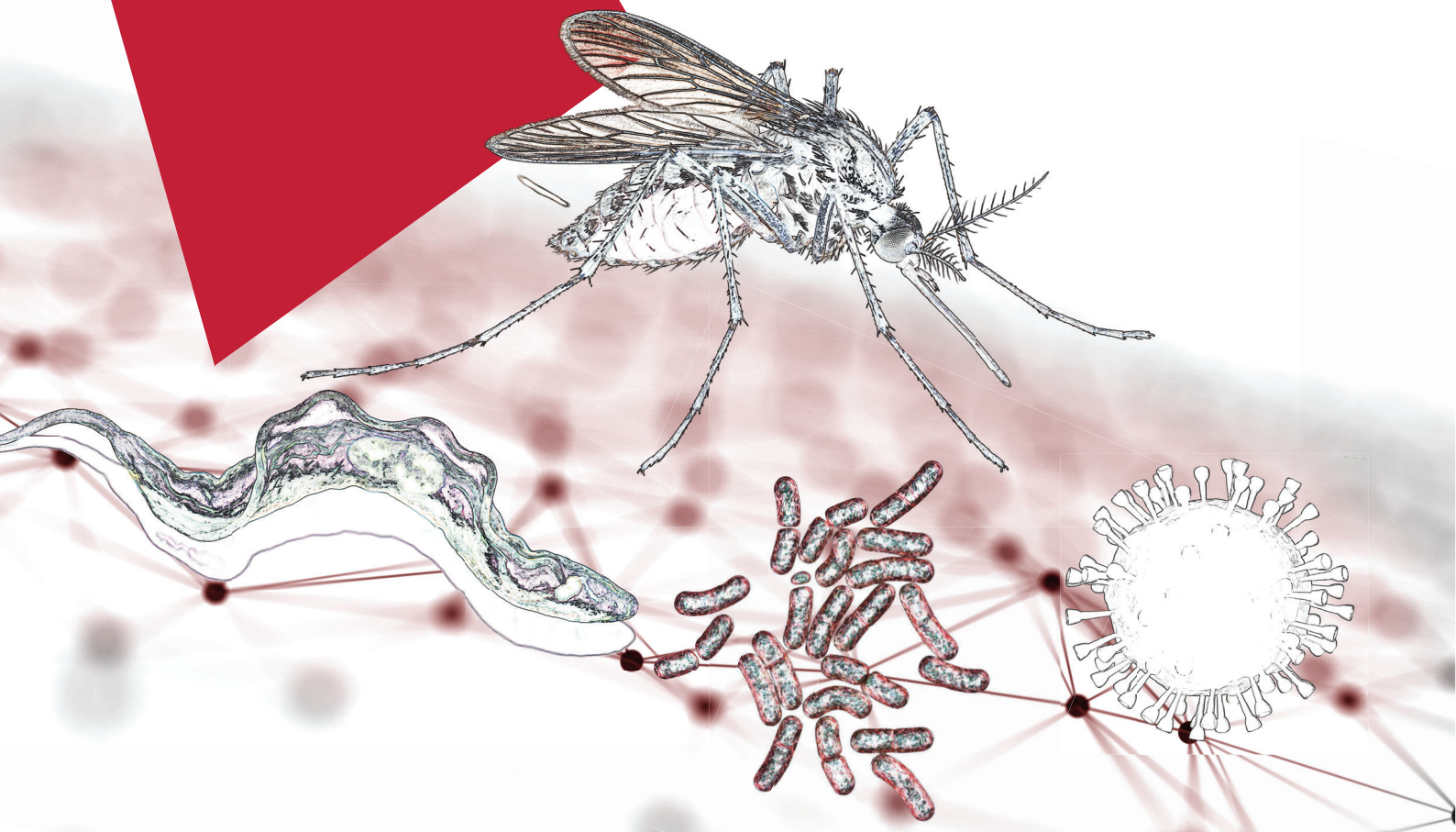
LEIBNIZ
CENTER INFECTION



LCI SYMPOSIUM
JANUARY 28–29, 2027

Data Science in Infection Research

InterACt
Leibniz ScienceCampus

©Adobe Stock, modified

Free online registration
until **January 13, 2027**

https://t1p.de/w2aet

CSSB - Centre for Structural Systems Biology
located on DESY-Campus
Hamburg-Bahrenfeld
Notkestraße 85, Building 15
22607 Hamburg

PROGRAM

Thursday January 28, 2027

Organizers:
Prof. Dr. Jürgen May, BNITM (acting speaker)
Prof. Dr. Marcus Altfeld, LIV
Prof. Dr. Thomas Gutsman, RCB
Prof. Dr. Stefan Niemann, RCB

9.45h	Arrival & Registration
10.45h	Opening by Jürgen May, Bernhard Nocht Institute for Tropical Medicine (BNITM)
10.50h	Thomas Gutsmann – Research Center Borstel (RCB)/ Centre for Structural Systems Biology (CSSB) ***Introduction to the CSSB and its Core Facilities***

SESSION
From Experiment to Data

Chair: Stefan Niemann & Christian Utpatel (RCB)

11.00h	Ariane Briegel – Institut Pasteur ***Vibrio inside! Towards nanoscale imaging of Vibrios inside host organisms***
11.30h	Pietro Scaturro – Leibniz Institute of Virology (LIV) ***Learning by comparing:*** ***Orthogonal proteomics to decipher the arbovirus-infected landscape***
12.00h	**LUNCH**
13:00h	Konrad Förstner - ZB MED – Information Centre for Life Sciences ***NFDI4Microbiota - Making Microbiology Data FAIR and Open***
13.30h	Nicole Fischer – Medical Center Hamburg-Eppendorf (UKE) ***Decoding Virus–Host Interactions in Human Skin Organoids***
14.00h	Dominik Heider – University of Münster ***AI in Antimicrobial Resistance and Infectious Disease Control***
14.30h	Group Photo + Coffee

SESSION
Integrative Analysis of
pathogen-induced Compartments

InterACt
Leibniz ScienceCampus

Chair: Kay Grünewald (LIV/CSSB)

15.15h	Kay Grünewald – University of Hamburg/LIV/CSSB ***Introduction InterACt***
15.30h	Jost Enninga - Institut Pasteur ***Integrating multimodal imaging data and single-cell workflows to decipher intracellular niche diversity of bacterial pathogens***
16.00h	Mario Schelhaas – University of Münster ***Puss in the corner - how sequential virus-host factor interactions may create the niche for papillomavirus infection***
16.30h	Nicola Stonehouse – University of Leeds ***Characterisation of virus-like particles as next generation vaccine candidates***
17.00h	**Cocktail Reception - Meet the Speakers**
19.00h	**Speakers Dinner**

PROGRAM

Friday January 29, 2027

LEIBNIZ CENTER INFECTION

SESSION
From Data to Pattern

Chair: Adam Grundhoff (LIV) & Federico Marcello Tenedini (BNITM)

9.00h	Martin Garrido – University of Córdoba and Maimónides Institute for Biomedical Research of Córdoba (IMIBIC) ***From Descriptive Multi-Omics to Predictive Systems Biology***
9.30h	Inken Wohlers – RCB ***Systems Genetics as a Framework for Multi-OMICS Integration in Infection Research***
10.00h	**COFFEE**
10.45h	Daniel Todt – Ruhr University Bochum ***Hepatitis E Virus at the Host-Pathogen Interface***
11.15h	Nicholas Thomson – Wellcome Sanger Institute ***Through the lens of Genomics: Cholera, its spread and continued evolution***
11.45h	Thomas Otto – BNITM ***Can in silico perturbation predict drug targets in severe malaria?***
12.15h	**LUNCH**

SESSION
From Pattern to Insight and Beyond

Chair: Maya Topf (LIV/ CSSB)

13.30h	Rainer Böckmann – University of Erlangen-Nürnberg ***From Molecular Dynamics to Mechanism: Membranes in Infection Research***
14.00h	Jianxu Chen – Leibniz-Institut für Analytische Wissenschaften (ISAS) ***Multi-Agent AI System in Biomedical Research from Data to Insights***
14.30h	Lars Kaderali – University Medicine Greifswald ***From Prediction to Mechanism: Integrating Machine Learning and Mathematical Models in Infection Research***
15.00h	**COFFEE**
15.45h	tbd.
16.15h	Stefan Niemann – RCB ***Large scale data analysis to trace resistance evolution, and transmission in Mycobacterium tuberculosis strains***
16.45h	**Farewell Address by Marcus Altfeld - LIV**

LEIBNIZ CENTER INFECTION

LEIBNIZ CENTER INFECTION

The Leibniz Center Infection (LCI) is a consortium of three institutes of the Leibniz Association engaged in infection research: the Bernhard Nocht Institute for Tropical Medicine (BNITM), the Research Center Borstel, Leibniz Lung Center (RCB), and the Leibniz Institute of Virology (LIV). The aim of LCI is to conduct research on highly relevant human pathogens and to provide a platform for cooperative projects, leading up to innovative scientific approaches in infection research.

BNITM
Bernhard Nocht Institute for Tropical Medicine

LIV Leibniz Institute of Virology

Research Center Borstel
Leibniz Lung Center

Together, they combine more than 220 years of excellence in infection research and provide a stimulating environment for about 600 scientists studying all aspects of a broad range of infectious diseases. The united expertise in parasitic, bacterial and viral infections perfectly qualifies LCI as the center for infection research.

For more information, please visit
www.lc-infection.de

Leibniz Gemeinschaft

InterACt
Leibniz ScienceCampus

Silke Luckow
+49 4537 / 188-4811
sluckow@fz-borstel.de
Dr. Eleonora Schönherr
eleonora.schoenherr@leibniz-liv.de
Dr. Anneke Novak-Funk
novak-funk@bnitm.de