

Leibniz Center Infection (LCI)

The LCI is a dynamic and flexible research alliance of three internationally renowned Leibniz Institutes in the North of Germany:



Bernhard Nocht Institute for Tropical Medicine, Hamburg



Research Center Borstel - Leibniz Lung Center, Borstel



Heinrich Pette Institute, Leibniz Institute for Experimental Virology, Hamburg

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



REGISTRATION DEADLINE
JANUARY 10, 2018

Register online:

<http://www.lc-infection.de/lci-symposium-2018-anmeldung.html>

Registration is free of charge. Participants are expected to meet their own accommodation and travel expenses.

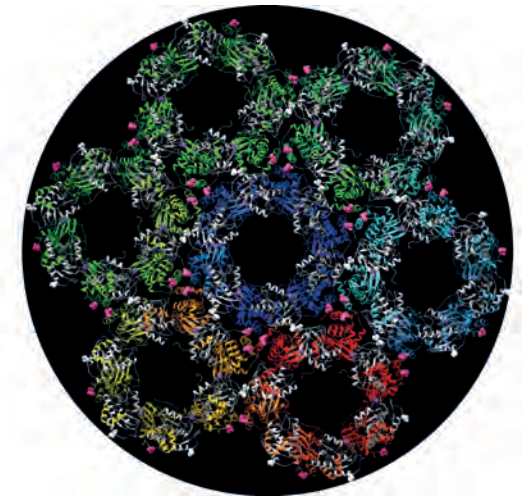
Certified by the
General Medical Council
12 points



LCI Symposium 2018 Structural Biology of Infection

January 18-19

Historic Lecture Hall
Bernhard Nocht Institute for Tropical Medicine (BNITM)
&
Centre for Structural Systems Biology (CSSB)



Organizers
Prof. Egbert Tannich (BNITM)
Prof. Ulrich E. Schaible (FZB)
Prof. Thomas Dobner (HPI)

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HerpesvirenProteinkomplex „Lattice“ (© Kay Gruenewald)

THURSDAY, January 18 (Venue: BNITM)

- 9:45 Opening by Ulrich Schaible (acting speaker of LCI), Borstel, Germany
- 10:00 **LCI Keynote Lecture**
Chair: Ulrich Schaible (FZB)
- Reidun Twarock**, York, UK
A systems approach to virus assembly, genome packaging and viral evolution
- 11:00 **Coffee**
- Session 1: Structural basis of therapy and prophylaxis**
Chair: Charlotte Uetrecht (HPI)
- 11:30 Thomas Gutschmann, Borstel, Germany
Molecular interaction between pore-forming peptides and lipid membranes
- 12:00 Helene Botella, New York, USA
Mechanisms deployed by mycobacteria to cope with stresses imposed by chemotherapy or host immunity
- 12:30 Chris Meier, Hamburg, Germany
Nucleoside triphosphates as potential chemotherapeutics to combat viral infections: design of chemical trojan horses
- 13:00 Felix Rey, Paris, France
Structural insight into human antibody responses to flaviviruses: lessons for vaccine design
- 13:30 **Lunch**

Session 2: Host-pathogen interactions on the molecular level (part one)

- Chair: Matthias Wilmanns (CSSB)
- 14:15 Thomas Krey, Hannover, Germany
Conformational flexibility in the viral glycoproteins - a new immune evasion strategy of the Hepatitis C virus
- 14:45 Edith Houben, Amsterdam, The Netherlands
Structure and function of mycobacterial type VII secretion systems
- 15:15 Michael Kolbe, Hamburg, Germany
How bacteria manipulate host cells: Structure and function of a macromolecular syringe
- 15:45 **Coffee** (group photo of speakers and chairs)

Session 2: Host-pathogen interactions on the molecular level (part two)

- Chair: Iris Bruchhaus (BNITM)
- 16:15 Nicolas Gisch, Borstel, Germany
Impact of teichoic acids on bacterial virulence and immune stimulation
- 16:45 Tobias Spielmann, Hamburg, Germany
A SLI system to study the Plasmodium falciparum Artemisinin resistance protein Kelch13
- 17:15 Tim Gilberger, Hamburg, Germany
Regulatory steps in red blood cell invasion of the malaria parasite
- 17:45 **Cocktail Reception – Meet the Speakers**
- 19:15 **Speakers Dinner**

Friday, January 19 (Venue: CSSB)

- 9:45 Welcome & Introduction to the CSSB by Chris Meier (scientific director of CSSB), Hamburg, Germany
- 10:00 **LCI Keynote Lecture**
Chair: Chris Meier (CSSB)
- Mark Sansom**, Oxford, UK
Molecular simulations to characterise the dynamic organization and interactions of cell and viral membranes
- Session 3: New Techniques in Structural Biology**
Chair: Andra Schromm (FZB)
- 11:00 Lars Redecke, Lübeck, Germany
Serial crystallography in living cells
- 11:30 Alke Meents, Hamburg, Germany
Structural investigations of biological samples using highly brilliant X-rays
- 12:00 **Lunch & Coffee**
- 12:45 Charlotte Uetrecht, Hamburg, Germany
Flying viruses - from biophysical to structural characterization
- 13:15 Kay Grünewald, Hamburg, Germany
Integrated structural cell biology of virus-host interactions
- 13:45 **Farewell Address** by Ulrich Schaible (FZB)
- 14:00 **On-site visit of the CSSB** (app. 45 minutes)

Conference venue January 18

Historic Lecture Hall of the Bernhard Nocht Institute for Tropical Medicine
Bernhard-Nocht-Strasse 74, D-20359 Hamburg, Germany
Phone: +49 40 42818-0

Contact

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Conference venue January 19

CSSB Centre for Structural Systems Biology
c/o Deutsches Elektronen-Synchrotron DESY
Notkestraße 85, Building 15, D-22607 Hamburg, Germany

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