

## 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](http://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.

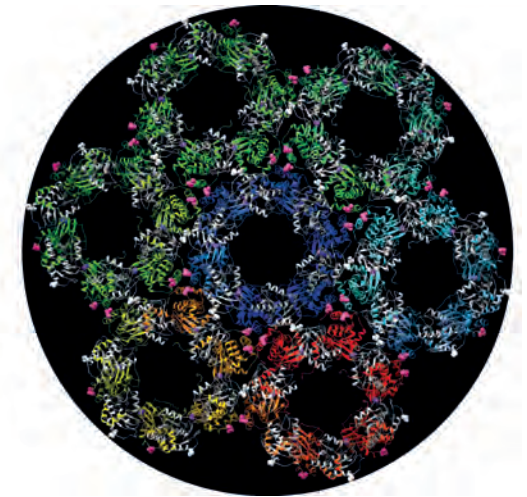
Certified by the  
General Medical Council  
12 points



## 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**

Dr. Susanne Pätzold, +49 4537 188-5840, spaetzold@fz-borstel.de  
Dr. Frauke Adaml, +49 40 48051-104, vorstandsreferat@leibniz-hpi.de  
Laura Zimmermann, +49 40 42818-264, presse@bnitm.de

**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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