

The Alfried Krupp Wissenschaftskolleg is an independent academic institution supported by the Stiftung Alfried Krupp Kolleg Greifswald. The institute promotes outstanding research and interdisciplinary and international co-operation.

The University of Greifswald is one of the oldest tertiary education institutions in Germany and the Baltic Sea Region. Founded in 1456, it is also the oldest Swedish university, as the region was ruled by the Swedes after the Thirty Years' War and up until 1815. Today, the University of Greifswald is aware of its tradition and has become a modern university beside the Baltic Sea with approximately 220 professors and 10.000 students. These come from all over Germany and from more than 90 countries from across the world.

The international symposium in honor of Professor Dr. Dr. h.c. mult. Jörg Hacker is organized by the Ernst-Moritz-Arndt-Universität Greifswald and the Alfried Krupp Wissenschaftskolleg Greifswald. The event is co-funded by the Alfried Krupp von Bohlen und Halbach-Stiftung, Essen, and the Ernst-Moritz-Arndt-Universität Greifswald.

### Organizers:

Professor Dr. Bärbel Friedrich  
(Director of the Alfried Krupp  
Wissenschaftskolleg Greifswald)  
Professor Dr. Michael Hecker  
(Ernst-Moritz-Arndt-Universität Greifswald)

### Information:

Dipl.-Psych. Julia Henke  
Alfried Krupp Wissenschaftskolleg Greifswald  
D-17487 Greifswald  
Telefon: +49 (0) 3834 / 420 - 5021  
Telefax: +49 (0) 3834 / 420 - 5005  
E-Mail: [julia.henke@wiko-greifswald.de](mailto:julia.henke@wiko-greifswald.de)  
[www.wiko-greifswald.de](http://www.wiko-greifswald.de)

### Venue:

Alfried Krupp Wissenschaftskolleg Greifswald

Alfried Krupp Wissenschaftskolleg Greifswald  
Martin-Luther-Straße 14  
D-17489 Greifswald  
[info@wiko-greifswald.de](mailto:info@wiko-greifswald.de)  
[www.wiko-greifswald.de](http://www.wiko-greifswald.de)



Alfried Krupp Wissenschaftskolleg  
Greifswald



# INFECTIOUS DISEASES AND THE GENOMIC REVOLUTION

International Symposium in honor of  
Professor Dr. Dr. h.c. mult. Jörg Hacker

July 21 - 22, 2017  
Alfried Krupp Wissenschaftskolleg  
Greifswald

## Friday, July 21, 2017

9.00 – 9.30

### Welcome addresses

Bärbel Friedrich, Michael Hecker (Greifswald)

9.30 – 10.00

### Laudatio

Ernst-Ludwig Winnacker (München)

### Session 1: Genomic Revolution – Microbial Genomics I

10.00 – 10.30

#### The World of *Escherichia coli*

Gerhard Gottschalk (Göttingen)

10.30 – 11.00

#### *Listeria monocytogenes*: towards a complete picture of its physiology and its virulence

Pascale Cossart (Paris)

11.00 – 11.30

Coffee break

### Session 2: Genomic Revolution – Microbial Genomics II

11.30 – 12.00

#### Every stomach tells a story: Genome variation and host adaptation during early and chronic infection with *Helicobacter pylori*

Sebastian Suerbaum (München)

12.00 – 12.30

#### Molecular Mimicry: a main virulence strategy of *Legionella*

Carmen Buchrieser (Paris)

12.30 – 13.00

#### RNA-based infection research

Jörg Vogel (Würzburg)

13.00 – 14.30

Lunch

### Session 3: Functional Genomics of Pathogenic Microorganisms I

14.30 – 15.00

#### The pathogen *M. Tuberculosis*: functional biology and drug repurposing

Seyed E. Hasnain (New Delhi)

15.00 – 15.30

#### What defines *Escherichia coli* as an extraintestinal pathogen? Insights from comparative and functional genomics

Ulrich Dobrindt (Münster)

15.30 – 16.00

#### Requirements of a camel to pass through the T3SS injection needle of *Yersinia*: threading, gliding, plugging

Jürgen Heesemann (München)

16.00 – 16.30

Coffee Break

### Session 4: Functional Genomics of Pathogenic Microorganisms II

16.30 – 17.00

#### How plant pathogenic bacteria conquer the host

Ulla Bonas (Halle)

17.00 – 17.30

#### Core effectors in smut fungi: an amazing treasure box

Regine Kahmann (Marburg)

17.30 – 19.00

#### A Literary Portrait

#### Wende - Die politische Revolution in Deutschland

Klaus Rost, Monika Zimmermann (Berlin)

Refreshments will be served

## Saturday, July 22, 2017

### Session 5: Mechanisms of Pathogenicity

9.30 – 10.00

#### Nets - the second function of chromatin

Arturo Zychlinski (Berlin)

10.00 – 10.30

#### Discovery of novel bacterial toxins by genomics

Cesare Montecucco (Padova)

10.30 – 11.00

#### Understanding mucosal infections and pathogenesis from the tissue point of view

Thomas F. Meyer (Berlin)

11.00 – 11.30

Coffee Break

11.30 – 12.00

#### *Staphylococcus aureus* pathogenicity - there may be a little bit more than genome

Georg Peters (Münster)

12.00 – 12.30

#### Pathogenicity factors of avian influenza viruses

Thomas C. Mettenleiter (Riems)

12.30 – 13.00

#### Concluding remarks

Jörg Hacker (Halle/Berlin)

13.00 – 14.00

Lunch