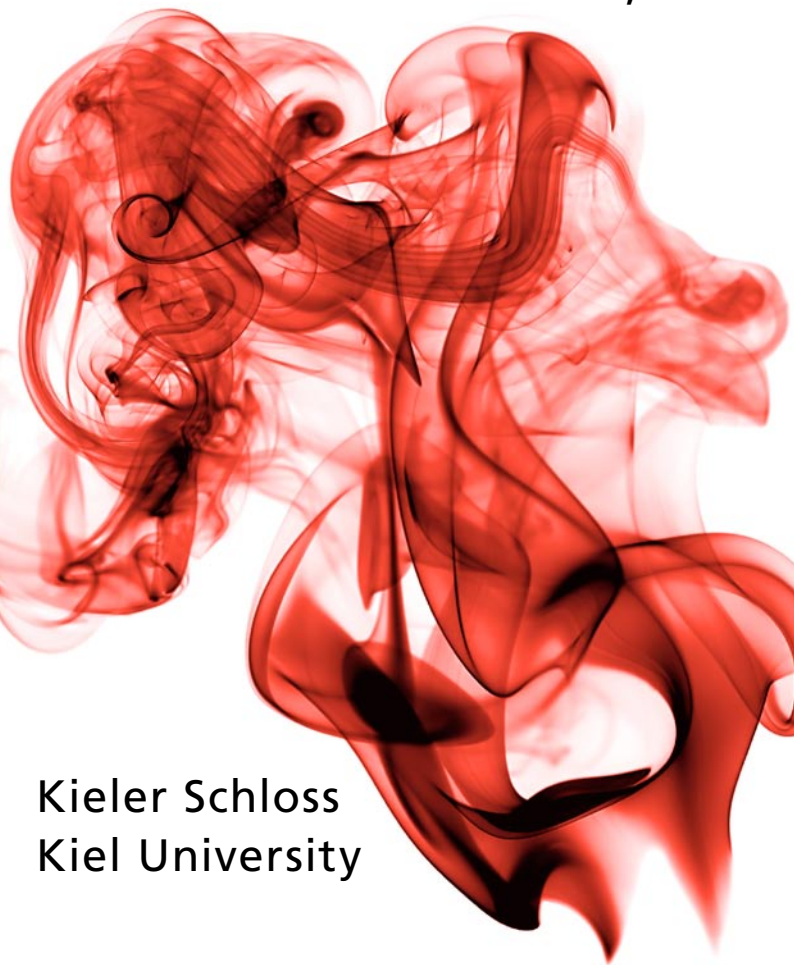


# 2nd Annual Cluster Symposium

JULY 9–11, 2009



Kieler Schloss  
Kiel University

## Program



Inflammation at Interfaces



Those who promote science also stimulate the economy and the culture of a country. The programme of the 2nd Annual Conference of the Cluster of Excellence Inflammation at Interfaces impressively substantiates this. On behalf of the state government of Schleswig-Holstein, I welcome all participants.

Internationally-renowned experts bring the congress to the attention of the entire professional world. Their presence attests to the first class reputation of the inflammation research of Schleswig-Holstein.

The conference also offers the junior scientists of the cluster a forum. It is the young, well-educated people who not only stimulate science with their ideas, but also strengthen the region. Economically, because their research can create new jobs. And culturally, because they not only work here, but spend their leisure time here as well.

The conference incorporates this. It begins with a first-class piano concert. And so underscores the global importance of world-class research for our country.

**Dr. Jörn Biel**

Minister of Science, Economic Affairs  
and Transport of the State of Schleswig-Holstein



Thursday, July 09, 2009

Kieler Schloss

### 18.00 Science meets Art

#### **Jost de Jager**

Ministry of Science, Economic Affairs and Transport  
of the State of Schleswig-Holstein

#### **Stefan Schreiber**

Speaker of the Cluster

#### **Margaret McFall-Ngai**

(University of Wisconsin, Madison, USA)

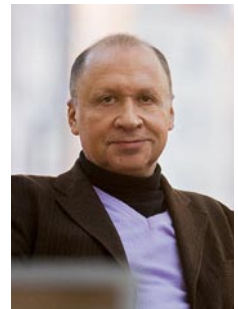
Unseen forces: the influence of  
bacteria on animal immunity

#### **Boris Bloch**

(Folkwang Hochschule, Essen)

Piano Concert with works of  
Schumann, Bach, Beethoven, Liszt

#### **Reception**



Friday, July 10, 2009

Audimax, Kiel University



### 9.00–9.30 Welcome addresses

**Gerhard Fouquet** President Kiel University  
**Peter Dominiak** President Lübeck University  
**Silvia Bulfone-Paus** Board of Directors Research Center Borstel  
**Stefan Schreiber** Speaker of the Cluster

### Session 1: Microbes in Health and Disease (Chair: Per Brandtzæg, LIIPAT, Oslo, Norway)

**9.30–10.00 Margaret McFall-Ngai** (University of Wisconsin, Madison, USA)  
Unseen forces: the influence of bacteria on animal immunity

**10.00–10.30 Eugene Rosenberg** (Tel Aviv University, Israel)  
The role of microorganisms in the evolution of animals and plants: the hologenome theory of evolution

**10.30–11.00 Coffee break**

### Session 2: Genes, Environment and Immunity (Chair: Philippe Sansonetti, Pasteur Institute, Paris, France)

**11.00–11.30 Ivo Boneca** (Pasteur Institute, Paris, France)  
The role of peptidoglycan in host-microbe interactions: a Nod story

**11.30–12.00 Lars Klareskog** (Karolinska Institute, Stockholm, Sweden)  
Genes, environment and immunity in the pathogenesis of rheumatoid arthritis

**12.00–14.00 Lunch**

### Session 3: Dynamics of Inflammation I (Chair: John Parkinson, Martinez, USA)

**14.00–14.30 Peter Gehr** (University of Bern, Switzerland)  
Dynamics of particle-cell interactions in the airways – a model system

**14.30–15.00 Ethan Shevach** (National Institute of Health, Bethesda, USA)  
Interaction between regulatory and effector T cells at mucosal surfaces

**15.00–15.30 Jason Stumhofer** (University of Pennsylvania, Philadelphia, USA)  
p28 antagonizes IL-6 signaling

**15.30–16.00 Coffee break**

### Session 4: Dynamics of Inflammation II (Chair: Clemens Sorg, Freiburg, Germany)

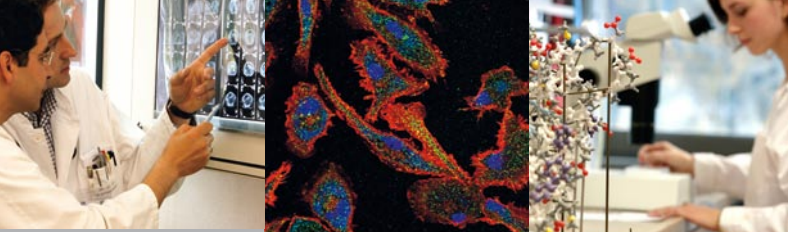
**16.00–16.30 Paul Flicek** (European Bioinformatics Institute, Cambridge, UK)  
Future challenges of large scale human variation data

**16.30–17.00 Jiří Forejt** (Institute of Molecular Genetics, Prague, Czech Republic)  
Collaborative cross and consomics – powerful mouse tools for studying human diseases

**17.00–17.30 Christopher L. Karp** (Cincinnati Children's Hospital Medical Center, USA)  
Allergenicity resulting from functional mimicry of a Toll-like receptor complex protein

**17.30–18.00 David Woodley** (University of Southern California, Los Angeles, USA)  
Type VII collagen as a target in inherited and acquired disease

**18.00–21.00 Poster session with beer, wine and cheese**



Saturday, July 11, 2009

Audimax, Kiel University

**Session 1: Current developments and most recent highlights in the Research Area “Cytokine Signaling”**  
(Chair: Stefan Rose-John, Kiel University)

- 09:00** **Stefan Rose-John** (Institute of Biochemistry, Kiel)  
The role of gp130 cytokines in pathophysiology
- 09:10** **Inken Lorenzen** (Institute of Biochemistry, Kiel)  
Structural characterisation of the tetrameric IL6-IL6R-(gp130)<sub>2</sub> Complex
- 09:20** **Henning Fedders** (Institute of Zoology, Kiel)  
Signaling via gp130 in the invertebrate model organism *Drosophila*
- 09:30** **Christoph Hölscher** (Research Center Borstel)  
TH17 immune responses in infection-driven inflammation and its modulation by gp130 cytokines

**Session 2: Current developments and most recent highlights in the Research Area “NLRs”**  
(Chair: Philip Rosenstiel, Kiel University)

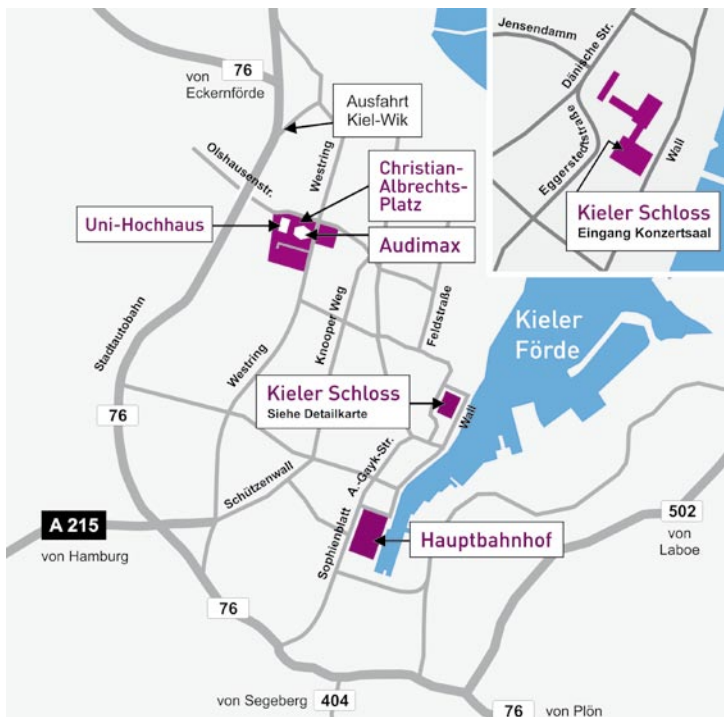
- 09:40** **Philip Rosenstiel** (Institute of Clinical Molecular Biology, Kiel)  
Recent developments in the Network
- 09:50** **Christina Lange** (Institute of Zoology, Kiel)  
Towards understanding the evolution of disease-associated genes: NOD-like proteins in *Hydra*
- 10:00** **Sascha Jung** (Institute of Biochemistry, Kiel)  
Structural studies of NOD2
- 10:10** **Andreas Tholey** (Institute for Experimental Medicine, Kiel)  
Signaling – a challenge for proteome analysis
- 10:20–10:50** **Coffee Break**

**Session 3: Current developments and most recent highlights in the Research Area “Autoimmune-/inflammatory diseases”**  
(Chair: Detlef Zillikens, Lübeck University)

- 10:50** **Detlef Zillikens** (Dep. of Dermatology and Allergology, Lübeck)  
Experimental models to study autoimmunity to type VII
- 11:00** **Saleh Ibrahim** (Dep. of Dermatology and Allergology, Lübeck)  
Genetic susceptibility of autoimmunity to type VII collagen
- 11:05** **Karsten Seeger** (Institute of Chemistry, Lübeck)  
Structural biology of autoimmunity to type VII collagen
- 11:10** **Xinhua Yu** (Research Center Borstel)  
Mechanisms of tissue damage induced by autoantibodies to type VII collagen
- 11:20** **Ralf Ludwig** (Dep. of Dermatology and Allergology, Lübeck)  
Immunomodulation of the autoimmune response to type VII collagen

**Session 4: Current developments and most recent highlights in the Junior Research Groups**  
(Chair: Hans Reiser, Gilead Sciences, Inc., Foster City, USA)

- 11:30** **André Franke** (Institute of Clinical Molecular Biology, Kiel)  
Identifying the genetic cause of epithelial barrier diseases
- 11:40** **Karina Reiß** (Dep. of Dermatology and Allergology, Kiel)  
Proteases and protease-inhibitors in inflammation
- 11:50** **Sylvia Hofmann** (Institute of Clinical Molecular Biology, Kiel)  
Genetics of Granulomatous inflammatory diseases
- 12:00** **Peter Lamprecht** (Department of Rheumatology, Lübeck)  
What about the granuloma in AVV?
- 12:10** **Discussion**
- 13:00** **Poster Awards**
- 13:15–14:00** **Lunch**
- 14.00–16:00** **Annual General Meeting of Cluster Members/ Meeting of the Supervisory Board Members**
- 16.00–18:00** **Scientific Supervisory Board meeting with Executive Group and Boards of Cluster institutions**



Registration until June 30, 2009

Scientific office of the Cluster

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Inflammation at Interfaces

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