

**Inflammation at Interfaces
Indian Summer School:**

**"A Comprehensive View of
Experimental Approaches in
Inflammation Research"**

**Kiel, Haus des Sports
19. – 21. Nov. 2013**



Inflammation at Interfaces

Dear Indian Summer School Participants,

On behalf of the organizing team, we cordially welcome you to our interdisciplinary training program!

Through the establishment of seven different Cluster Laboratories, the Inflammation Cluster offers a wide array of experimental and analytical approaches to inflammation research. Likewise, Cluster scientists also stem from a wide variety educational backgrounds, which can limit the extent to which individual research projects and agendas profit from Cluster resources. It is with these gaps in mind that we organized this three-day session, to provide you with basic background and practical knowledge for what each Cluster Lab has to offer. We hope that you will take with you an enhanced, interdisciplinary perspective on what Cluster technology has to offer!

Sincerely,

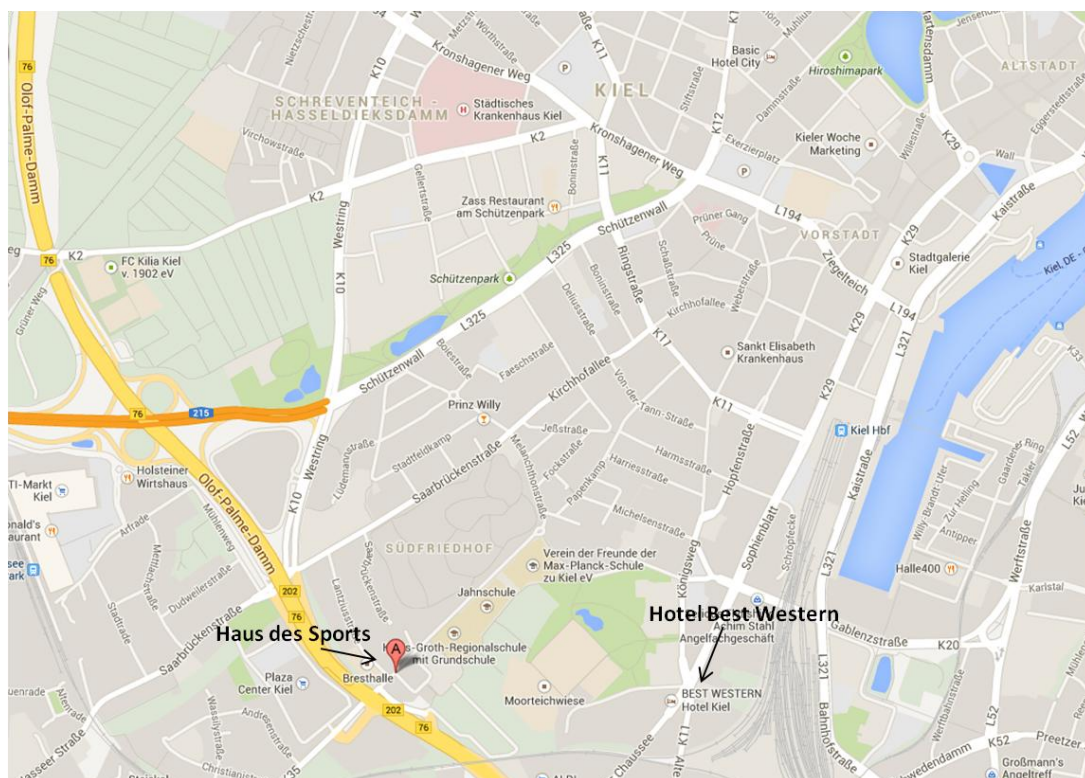
John Baines and Andreas Tholey

Useful information

Restaurant im Haus des Sports
Winterbeker Weg 49
24114 Kiel

Best Western Hotel Kiel
Hamburger Chaussee 2
24114 Kiel

<http://www.hds-kiel.de/anfahrt/>



TUESDAY, NOVEMBER 19, 2013

- until 08:50 Arrival of busses from Lübeck and Borstel
- 08:50 – 09:00 Welcome (Prof. John Baines, Prof. Andreas Tholey)
- CL VII (HUMAN IMMUNOPHENOTYPING)**
- 09:00 – 09:05 Introduction (Prof. Dieter Kabelitz)
- 09:05 – 09:35 Flow cytometry and cell sorting (PD Dr. Hans-Heinrich Oberg)
- 09:35 – 10:00 ImageStream Cytometry (Prof. Dieter Kabelitz, Dr. Marcus Lettau)
- 10:00 – 10:30 *In vivo* imaging facilities at "Molecular Imaging North" (Prof. Claus-C. Glüer)
- 10:30 – 11:00 *Coffee break*
- 11:00 – 11:10 Structure and goals of the CL VII (Prof. Detlef Zillikens)
- 11:10 – 11:40 Autoantibody profiling (Prof. Detlef Zillikens)
- 11:40 – 12:10 Immunohistopathology/Imaging (Prof. Enno Schmidt)
- 12:10 – 12:30 Flowcytometry and immune cell repertoire (Dr. Andreas Recke, Dr. Kathrin Kalies)
- 12:30 – 14:00 *Lunch* and small group consulting sessions
- CL VIII (NUCLEOTIDE LABORATORY)**
- 14:00 – 14:30 Genotyping/GWAS/Exome sequencing (Prof. Andre Franke)
- 14:30 – 15:00 Microbiome analysis (Prof. John Baines)
- 15:00 – 15:30 Transcriptomics/Epigenomics (Prof. Philip Rosenstiel)
- 15:30 – 16:00 *Coffee break*
- 16:00 – 16:30 Experimental design and statistical analysis of transcriptome experiments (Dr. Robert Häslér)
- 16:30 – 17:00 Experimental design/handling of microbiome samples (Dr. Ateequr Rehman)
- 17:00 – 17:30 Analysis of exome sequencing data (Britt Petersen)
- 17:30 – 19:00 *Dinner* and small group consulting sessions

WEDNESDAY, NOVEMBER 20, 2013

- CL XII (MOUSE MODEL SYSTEMS OF INFLAMMATION)**
- 09:00 – 09:30 The cluster laboratory: mouse model systems in inflammation (Prof. Jörg Köhl)
- 09:30 – 10:00 Genetic services within the mouse models laboratory (Prof. Saleh Ibrahim)
- 10:00 – 10:30 Strategies and planning of cell sorting using multicolor analysis (Dr. Tillmann Vollbrandt)
- 10:30 – 11:00 *Coffee break*
- 11:00 – 11:30 Enhanced phenotypical and functional immune cell analysis (Dr. Christian Karsten)
- 11:30 – 12:00 Experimental allergic asthma models (Dr. Yves Laumonnier)
- 12:00 – 12:30 Antigen-specific tolerance induction with sialylated immunosuppressive IgG antibodies in different mouse models (Prof. Marc Ehlers)
- 12:30 – 14:00 *Lunch* and small group consulting sessions

CL X (DYNAMICS OF MOLECULAR INTERACTIONS)

14:00 – 14:05	Introduction (Prof. Andreas Tholey, Prof. Thomas Gutschmann)
14:05 – 14:30	Proteomics (Dr. Andreas Tholey)
14:30 – 15:00	Lipidomics (Dr. Dominik Schwudke)
15:00 – 15:30	Imaging (Dr. Niels Röckendorf)
15:30 – 16:00	<i>Coffee break</i>
16:00 – 16:30	Crystallography and molecular modeling (Dr. Jeroen Mesters)
16:30 – 17:00	Biophysical techniques to investigate membrane-protein/peptide interactions (Prof. Thomas Gutschmann)
17:00 – 17:30	Membrane interactions of host defense peptides (Dr. Matthias Michalek)
17:30 – 19:00	<i>Dinner</i> and small group consulting sessions (all platforms within CL-X)
19:30 – 20:30	Plenary Lecture Metaproteomics of microbial communities (Prof. Martin van Bergen, Leipzig)
20:30	Get-together with wine and pretzels

THURSDAY, NOVEMBER 21, 2013

CL XI (EPIDEMIOLOGY)

09:00 – 09:45	Epidemiological studies as important resource for biomedical research (Prof. Wolfgang Lieb)
09:45 – 10:30	Altered metabolism in asthma – an integrated genetic and metabolic profiling analysis (Dr. Janina Ried)
10:30 – 11:00	<i>Coffee break</i>
10:30 – 11:15	An integrated epigenetic and transcriptomic analysis reveals distinct patterns of DNA methylation associated with atopic dermatitis (Dr. Elke Rodriguez)
11:15 – 12:30	Genome-wide comparative analysis of atopic eczema and psoriasis gives insight into disease mechanisms (Dr. Hansjörg Baurecht)
12:30 – 14:00	<i>Lunch</i> and small group consulting sessions

CL XIII (COMPREHENSIVE CENTER FOR INFLAMMATION MEDICINE)

14:00 – 14:45	Krankheitslehre über entzündliche Barriereerkrankungen (Prof. Johann Oltmann Schröder, Prof. Diamant Thaçi)
14:45 – 15:30	Clinical studies with examples (Prof. Johann Oltmann Schröder, Prof. Diamant Thaçi)
15:30 – 16:00	<i>Coffee break</i>
16:00 – 16:30	popgen (Dr. Gunnar Jacobs)
ca. 16:45	Departure of busses to Lübeck and Borstel