

Inflammation, Regeneration and Immunity

Basic Aspects, Novel Approaches and Experimental Models



Lower Saxony International Summer Academy in Immunology, 09 – 23 September 2012



→ Workshop topics:

Asthma and Allergic Inflammation; Autoimmunity; Pattern Recognition Receptors and Inflammation; Th17 and Regulatory T Cells in Mediating and Restraining Inflammation; Homeostasis and Inflammation in the Intestine; Immunity; Inflammation, and cancer;

+ Stem cell technology / Epigenetics & Genetics / Experimental models

→ Who can apply:

The workshop will provide top-level training for young students of biosciences & medicine (Bachelor / Master degree) who plan to pursue a Ph.D. in immunology. Includes one week of lectures and up to three weeks of hands-on training (lab rotation). Participation is limited to 50 young researchers. Travel grants are available for all international students.

→ Speakers:

Invited Speakers:

Philippe Bousso, Inst. Pasteur (France)
G rard Eberl, Inst. Pasteur (France)
Bart Lambrecht, Ghent University (Belgium)
Marc Veldhoen, Babraham Inst. (UK)

Twincore Symposium 27/28.09.
Harald von B hmer, Harvard University (USA)
Rick Flavell, Yale University (USA)
Yvette van Kooyk, FU Amsterdam (NL)
Maria Masucci, Karolinska Inst. (Sweden)
Michel Nussenzweig, Rockefeller University (USA)
Alexander Ploss, Rockefeller University (USA)
Klaus Rajewski, MDC Berlin (Germany)
Dolores Schendel, HZI Munich (Germany)

Faculty:

Christopher Baum, MHH
Georg Behrens, MHH
Armin Braun, ITEM
Dunja Bruder, HZI
Anna-Maria Dittrich, MHH
Christine Falk, MHH
Reinhold F rster, MHH
Carlos Guzman, HZI
Gesine Hansen, MHH
Hansj rg Hauser, HZI
Susanne H ussler, Twincore
Mathias Hornef, MHH
Jochen H hn, HZI
Elmar J ckel, MHH
Ulrich Kalinke, TWINCORE

Andreas Krueger, MHH
Matthias Lochner, TWINCORE
Michael Manns, MHH
Oliver Pabst, MHH
Immo Prinz, MHH
Ulrike Raap, MHH
Reinhold E. Schmidt, MHH
Thomas Schulz, MHH
Julia Skokowa, MHH
Tim Sparwasser, TWINCORE
Renata Stripecke, MHH
Siegfried Wei , HZI
Thomas Werfel, MHH
Torsten Witte, MHH

**Registration
Deadline:
30 April**

For more information about workshop and registration, please visit: <http://www.hbrs-summeracademy.de>

Supported by:



Hannover Biomedical Research School (HBRS)
<http://www.mh-hannover.de/hbrs.html>



German Academic Exchange Service (DAAD)
<http://daad.de>



Lower Saxony International Summer Academy in Immunology
09.-23. September 2012 in Hannover, Germany

Inflammation, Regeneration and Immunity
Basic Aspects, Novel Approaches and Experimental Models

1st Week – Lectures (to be confirmed)

Sunday, 09th Sep.		
17.00-19.00		Welcome Meeting / Registration TWINCORE: Room 0.02

Monday, 10th Sep.		
Pattern Recognition Receptors, Dendritic Cells PhD Programs (HBRS) TWINCORE: Room 0.02		
Chair	Tim Sparwasser	
09.00-09.15	Susanne Kruse Tim Sparwasser	Welcome and Introduction
09.15-09.45	Georg Behrens	Topic Overview
09.45-10.15	Georg Behrens	Divide and conquer: dendritic cells in adaptive immunity
10.15-10.45	Coffee Break	
10.45-11.15	Ulrich Kalinke	Plasmacytoid dendritic cells in antiviral defence
11.15-11.45	Renata Stripecke	Preclinical and clinical modalities of dendritic cell immunotherapy
11.45-12.15	Carlos Guzman	Targeting innate immune cells to improve responses to vaccination
12.15-14.00	Lunch with Speakers	
Chair	Reinhold E. Schmidt	
14.00-14.15	Reinhold E. Schmidt	HBRS PhD Programs
14.15-14.45	Reinhold E. Schmidt	MolMed
14.45-15.15	Christopher Baum	Reg Sciences
15.15-15.45	Reinhold Förster	ZIB Phd Program
15.45-17.00	Orientation Tour MHH	
17.00-20:30		Students Poster Presentation I, Snacks, Happy Hour

Tuesday, 11th Sep.		
Lung Inflammation, Asthma, Allergy TWINCORE: Room 0.02		
Chair	Reinhold Förster	
09.00-09.30	Reinhold Förster	Topic Overview
09.30-10.00	Reinhold Förster	Tertiary lymphoid structures in the lung
10:00-10.30	Coffee Break	
Chair	Gesine Hansen	
10.30-11.00	Susanne Häußler	Treatment Challenges of Chronic Pseudomonas aeruginosa Infections
11.00-11.30	Gesine Hansen	Active allergy prevention
11.30-12.00	Dunja Bruder	Synergy of innate and adaptive mechanisms in

		establishing immunological tolerance in the lung
12.00-12.30	Armin Braun	Neuroimmune Interactions in allergic asthma
12.30-14.00	Lunch with Speakers	
Chair	Thomas Werfel	
14.00-14.30	Thomas Werfel	Allergic skin diseases
14.30-15.00	Ulrike Raap	IL-31 the novel pruritogen in inflammatory skin diseases
15:00-17.00	Coffee Break	
17.00-18.00 MHH-Lecture Hall H – Building J1	Bart Lambrecht	Asthma (SFB 587)

Wednesday, 12th Sep.	Regeneration, Hematopoietic Progenitors TWINCORE: Room 0.02	
Chair	Christopher Baum	
09.00-09.30	Christopher Baum	Topic Overview
09.30-10.00	Christopher Baum	Genetic modification of stem cells
10.00-10.30	Andreas Krueger	MicroRNA in lymphocyte development
10.30-11.00	Julia Skokowa	New G-CSFR signaling pathways in myelopoiesis and leukemogenesis
11.00-11.15	Small Break / Getting Ready	
11.15-12.15	Coach Drive to Braunschweig	
12.15-13.00	Lunch at Helmholtz Centre	
13.00-16.00	Visit Helmholtz Centre for Infection Research, Demonstration Platforms	
16.00-17.00	Drive to Goslar	
17.00-19.00	City Walk in Goslar (UNESCO World Heritage)	
19.00-21.00	Dinner / Brauhaus Goslar	
21.00-22.30	Drive to Hannover	

Thursday, 13th Sep.	Homeostasis and Inflammation in the intestine Immunity, Inflammation and Cancer TWINCORE: Room 0.02	
Chair	Matthias Lochner	
09.00-09.30	Matthias Lochner	Topic Overview
09.30-10.00	Oliver Pabst	Regulation of intestinal tolerance by dendritic cells and macrophages
10.00-10.30	Coffee Break	
10.30-11.00	Matthias Lochner	RORgt expressing cells and their role in intestinal immune regulation and inflammation
11.00-11.30	Siegfried Weiß	tba
11.30-12.00	Mathias Hornef	The intestinal epithelium, active player in the host-microbial interaction
12.00-12.30	Hansjörg Hauser	Interferons in infection, immunity and cancer
12.30-14.30	Lunch with Speakers	
Chair	Thomas Schulz	
14.30-15.00	Thomas Schulz	Kaposi Sarcoma Herpesvirus: a model for the interplay between viral infection and inflammation in the pathogenesis of virus-associated cancer

15.00-15.30	Michael Manns	Viral Hepatitis and Cancer
15.30-17.00	Coffee Break	
17.00-18.00 Twincore Room 0.02	G�rad Eberl	Gut Immunity (tba)/ SFB 621

Friday, 14th Sep.	Tregs, Th17, Gamma Delta T Cells, Autoimmunity TWINCORE: Room 0.02	
Chair	Jochen H�hn	
09.00-09.30	Jochen H�hn	Topic Overview
09.30-10.00	Anna-Maria Dittrich	IL-17 in allergic sensitization
10.00-10.30	Coffee Break	
10.30-11.00	Tim Sparwasser	Tregs in infection and vaccinology: heroes or traitors?
11.00-11.30	Jochen H�hn	To be or not to be a Treg: epigenetic control of stable Foxp3 expression
11.30-12.00	Elmar J�ckel	Tregs in alloimmune responses
12.00-12.30	Immo Prinz	IL-17 producing gamma-delta T cells
12.30-13.00	Christine Falk	NK cells in Autoimmunity
13.00-14.00	Lunch with Speakers	
Chair	<i>Reinhold E. Schmidt</i>	
14.00-14.30	Reinhold E. Schmidt	Pathomechanisms in antibody-mediated inflammation
14.30-15.00	Torsten Witte	Identification of new autoantibodies as biomarkers of autoimmune disorders
15.00-15.30	Coffee Break	
15.30-16.30 Twincore Room 0.02	Marc Veldhoen	Th 17 tba (KFO))
16.30-18:30		Students Poster Presentation II, Snacks, Happy Hour
18:30- Open End	Barbecue, Get together with HBRS students	

Saturday, 15th Sept.		
10.30-12.30		City Walk -Flea Market (Am Hohen Ufer) + Nanas
12.30-13.30		Boat Tour / Lunch Break
Evening		GOP Theatre Hannover

Sunday, 16th Sept.		
	Free	

2nd Week – Lab Visits & Demonstrations

Monday, 17th Sep.		
8.00-10.00		FACS Training (beginners lecture)
All Day		Lab Rotation
17.00-18:00 TWINCORE: Room 0.02	Philippe Bousso	Imaging Techniques (tba)

Tuesday, 18^h Sep.		
09.00-10.00		FACS Training (lecture)
All Day		Lab Rotation

Wednesday, 19^h Sep.		
All Day		Lab Rotation

Thursday, 20th Sep.		
09.00-11.00	MHH	Demonstration FACS Sorter / Sequencer / Microscopes (optional)
All Day		Lab Rotation

Friday, 21st Sep.		
All Day		Lab Rotation
18.00-20.00 TWINCORE: Room 0.02		Round Table Discussion & Feedback Happy Hour & Snacks

Saturday, 22nd Sep.		
Evening		Fireworks Herrenhausen Gardens

Thursday, 27th / Friday, 28th Sep.	TWINCORE SYMPOSIUM	
	Harald von Böhmer , Harvard University (USA) Rick Flavell , Yale University (USA) Yvette van Kooyk , FU Amsterdam (NL) Maria Masucci , Karolinska Inst. (Sweden) Michel Nussenzweig , Rockefeller University (USA) Alexander Ploss , Rockefeller University (USA) Klaus Rajewski , MDC Berlin (Germany) Dolores Schendel , HZI Munich (Germany)	
