



Hannover Biomedical Research School
Hannover Medical School, Germany

Summer School
“Signaling and Immunity”

Schedule and Program

Goslar, Hotel Der Achtermann

September 28th – October 2nd, 2008

Organizing Committee:

Reinhold E. Schmidt, Clinical Immunology, Dean of HBRS

Matthias Gaestel, Physiological Chemistry

Reinhold Förster, Immunology

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We express our thanks to the sponsors:

- **DFG**
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“German Excellence Initiative”**

Sunday 28	Monday 29	Tuesday 30	Wednesday 1	Thursday 2
Arrival and Check In at Hotel Der Achtermann Goslar	7.00-8.15 Breakfast	7.00-8.30 Breakfast	7.00-8.30 Breakfast	7.00-8.30 Breakfast
	9.00 - 12.15 Session 1 Molecular concepts of signal transduction	8.45-12.15 Session 2 Cytokine signaling in inflammation and innate immune response Session 3	8.45-12.15 Session 3 cont. Pathogen-Host signaling strategies in infection (Virus)	8.45-12.15 Session 4 T- and B-cell receptor signaling
	12.15 Lunch	12.30 Lunch	12.30 Lunch	12.30 Lunch
	14.15-15.45 Session 1 cont.	14.30-16.00 Session 3 Pathogen-Host signaling strategies in infection (Bacteria) Session 4	14.00 Historical Tour of Goslar	14.00-15.30 Session 5 Downstream effector systems
from 19.00 Welcome Cocktail and buffet in Hotel restaurant "Altdeutsche Bierstube"	16.15-18.30 Student Presentations, Poster	16.30 Excursion	17.00-18.30 Student Presentations, Poster	16.00-17.00 Tutorial sessions
	18.45-19.45 Tutorial Sessions	to old mine "Rammelsberg"	18.45-19.45 Tutorial Sessions	17.00 Closing and Departure
	20.00 Dinner	19.00 Special Dinner	20.00 Dinner	

Sunday, 28 September

ARRIVAL

From 17.00 Summer School Registration in restaurant "Altdeutsche Bierstube"

From 19.00 Welcome Cocktail and Buffet in restaurant "Altdeutsche Bierstube"

Monday, 29 September

Session 1: Molecular concepts of signal transduction

7:00-8:30 breakfast (registration continued)

9:00 Reinhold E. Schmidt: Welcome

9:15-10:00 Angel R. Nebreda, Molecular Oncology, CNIO, Spanish National Cancer Centre, Madrid, Spain

Signal integration by p38 MAP kinases

10:15-10:45 Coffee break

10:45-11:30 Steve Keyse, Stress Response Laboratory, Cancer Research UK
The regulation of MAP kinase signalling by dual-specificity protein phosphatases". A suitable topic for further discussion would be "Mechanisms governing specificity in MAP kinase signalling pathways

12:15-13:15 lunch

13:15-14:15 Free Time

14:15-14:45 Michael Kracht, Pharmacology, Giessen, Germany
The JNK-c-Jun pathway modulates gene expression patterns through transcription factor networks and epigenetic mechanisms of gene control

15:00-15:30 Matthias Gaestel, Physiological Chemistry, MHH, Hannover, Germany
The p38 MAPK/MK2/3 axis in inflammation

15:45- Coffee break and Poster

-18:30 Students presentations I, Poster

18:45-19:45 Tutorial Session A: Nebreda and Keyse (*Specificity in MAP kinase signalling pathways*)

18:45-19:45 Tutorial Session B: Kracht (*Chromatin Immunoprecipitation*)

20:00 dinner

Tuesday, 30 September

Session 2: Cytokine signaling in inflammation and innate immune response

7:00-9:00	breakfast
9:15-9:45	Jeremy Saklatvala, Kennedy Institute of Rheumatology, Imperial College London, UK <i>How do corticosteroids suppress inflammatory and immune responses?</i>
10:00-10:30	Rudi Beyaert, Molecular Biomedical Research, Flanders Institute for Biotechnology, Ghent, Belgium <i>Keeping NF-κB mediated gene expression in response to TNF and IL-1 under control</i>
10:45-11:15	Coffee break
Session 3:	<i>Pathogen-Host signalling strategies in infection (Bacteria)</i>
11:15-11:45	Jorge Galan, Boyer Center for Molecular Medicine, Yale University School of Medicine, USA <i>Title to come</i>
12:30-13:30	lunch
13:30-14:30	Free Time
Session 3	<i>Ctdn.</i>
14:30-15:00	James Bliska, Center for Infectious Diseases, University of California-Berkeley, USA <i>Caspase-1 activation in macrophages infected with Yersinia pestis</i>
Session 4:	<i>T and B-cell receptor signalling</i>
15:15-15:45	Wolfgang Schamel, Molecular Immunology, Freiburg, Germany <i>Mechanisms of signal transduction through the TCR</i>
16:00-16:30	Break
16:30	Bus transfer to Rammelsberg (please wear sturdy shoes!)
19:00	Special dinner (surprise)

Wednesday, 1 October

**Session 3 cont.: Pathogen-Host signaling strategies in infection
(Virus)**

7:00-8:30	Breakfast
8:45-9:15	Paul Farrell, Virology, Imperial College, Faculty of Medicine, London, UK <i>Signal transduction in Epstein-Barr virus latency and reactivation</i>
9:30-10:00	Thomas F. Schulz, Virology, MHH, Hannover, Germany <i>Functional Consequences of intracellular signaling pathways engaged by Kaposi Sarcoma Herpesvirus</i>
10:15-10:45	Coffee Break
10:45-11:15	Päivi Ojala, Biomedicum Helsinki, Helsinki, Finland <i>Deciphering cellular signaling pathways for translation into targeted therapies against KSHV-associated malignancies</i>

Session 4: T-and B-cell receptor signaling

11:30-12:00	Burkhardt Schraven, University of Magdeburg, Germany <i>Signaling signatures and functional properties of anti-human CD28 superagonists</i>
12:30-13:30	Lunch
14.00	<i>Cultural afternoon: Historical tour of Goslar</i>
17:00-18:30	Student Presentations II, Poster and coffee
18:45-19:45	Tutorial Session A: Saklatvala (<i>How do corticosteroids suppress inflammatory and immune responses</i>) / Beyaert (<i>Techniques to study protein-protein interactions</i>)/ Schamel (<i>gammadelta T cell receptor</i>)
18:45-19:45	Tutorial Session B: Farrel (<i>How does EBV contribute to human cancer - can we do anything about it?</i>) /Ojala (<i>Title to follow</i>) /Bliska (<i>Inducers of innate immunity</i>)
20:00	Dinner

Thursday, 2 October

Session 4: T- and B-cell receptor signaling

7:00-8:30	Breakfast
8:45-9:15	Jürgen Wienands, Cellular and Molecular Immunology, Göttingen, Germany <i>Antigen-receptor tail clue of class-switched memory B cells</i>
9:30-10:00	Anne Durandy, INSERM, Necker-Enfants Malades Hospital, U768, Paris, France <i>B cell activation for antibody maturation</i>
10:15-10:45	Coffee Break
10:45-11:15	Andreas Krueger, Immunology, MHH, Germany <i>TCR and non-TCR signals in T lineage decisions</i>
11:30-12:00	Vigo Heissmeyer, Helmholtz Center Munich <i>Regulation of adaptive immune responses by the miRNA pathway</i>
12:30-13:30	Lunch
Session 5:	Downstream effector systems
14:00-14:30	Cosima Baldari, Evolutionary Biology, Siena, Italy <i>Positive and negative of antigen receptor signaling by Shc adaptors</i>
14:45-15:15	Jürgen Ruland, Internal Medicine III, Munich, Germany <i>ITAM receptor signaling to NF-kappaB in the innate and adaptive immune system</i>
15:30-16:00	Coffee Break
16:00-17:00	Tutorial Session A: Wienands / Durandy (<i>Ig signaling</i>)
16:00-17:00	Tutorial Session B: Heissmeyer (<i>Molecular function of Roquin in the miRNA pathway and autoimmunity</i>) / Baldari (<i>The role of molecular adaptors as hubs in relaying signals from the TCR and BCR to downstream effector pathways</i>) / Ruland (<i>Title to follow</i>)
17:00	Closing
17:30	Departure
(20:00	<i>Dinner for key lecturers who stay in hotel until October 3rd</i>

How to get to Goslar

By plane

You need to take a plane into either Hanover International Airport (HAJ) (60 miles) or Frankfurt Intercontinental airport (FRA)(195 miles) and make your way to Goslar by car or by train.

From Hannover airport take the train S5 to Hannover main train station.

By train

Goslar can best be accessed by regional trains from Hanover or Brunswick. There are direct trains from Hannover main train station every hour (at around X.35). The train takes about 1 hour.

In Hanover and Goettingen there is access to Germany's ICE network.

By road

From South, take the A7/E45 and leave it at either the intersection Seesen. Take the landstrasse L248 and then the bundesstrasse B82 to Goslar. If you wish to take the route via the Harz mountains, exit the A7/E45 at Northeim and take the landstrasse L241 via Osterode, Clausthal-Zellerfeld to Goslar.

Coming from Berlin, take the A2/E39 to the intersection Brunswick and head via the A395 in the direction of Harzburg-Spa. At Vienenburg you leave the A395 and take the landstrasse L241 to Goslar.

Arriving from Duesseldorf/Ruhr Basin take the A2/E39 to Hanover and at the Intersection Hanover leave the A2/E39 and take the A7/E45. For further directions, see below.

Coming from Hamburg/Bremen/Hanover you take the A7/E45 in the direction Frankfurt. You exit the autobahn at Holle-Salzgitter and take the bundesstrasse B6 (mostly two-lane) to Goslar.