



5th Lower Saxony International Summer Academy in Immunology

16th August – 13th September 2015



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



Dear Students,

Welcome to the fifth international LISA Summer Academy here in Hannover.

You have been selected to take part in cutting edge scientific lectures during the first week of your stay.

Furthermore, you will have the unique opportunity to gain insight into our labs at the Hannover Medical School, the Twincore and the ITEM during the weeks thereafter.

Since there is more to Hannover than high-ranking science, we also organized an exciting social program including a city tour, a German barbecue, a theatre night at the GOP variété and the chance to attend the firework competitions to help you become familiar with the capital of Lower Saxony and its surroundings.

In this newsletter you will find the program, a site map of the MHH and some additional information. If you have further questions, do not hesitate to ask us, or refer to our Facebook page for news and updates. We hope that you will have a gratifying experience, both scientifically and socially, during your stay in Hannover.

Looking forward to welcoming you here,

Tui Spwan



Program LISA Summer Academy 2015

Sunday Aug. 16 th	Welcome Evening TWINCORE: Room 0.02
12:00-17:00	Registration
17:00-19:00	Welcome, Drinks and Snacks

Monday Aug. 17 th	Regeneration, Hematopoietic Progenitors, PhD Programs (HBRS) TWINCORE: Room 0.02
9:00-10:15	Tim Sparwasser Welcome Introduction
	Axel Schambach* Topic Overview
	Axel Schambach Genetic modification of stem cells
10:15-10:45	Coffee Break
10:45-12:15	Andreas Krueger* MicroRNA in lymphocyte development
	Dirk Heckl CRISPR-Cas9
	Ulrich Martin Induced pluripotent Stem Cells: New Tools for Disease Modelling & Drug Screening, and Application in Cellular Therapies
12:15-14:00	Lunch with Speakers
14:00-15:30	Denise Hilfiker Welcome by the Dean of Research of the MHH
	Reinhold E. Schmidt* HBRS PhD Programs, MolMed PhD Program
	Ulrich Martin Reg Sciences PhD Program
	Reinhold Förster ZIB PhD Program
	Christine Falk Info: Career Advice, Stipends, Women in Science
15:30-16:00	Coffee Break
16:00-17:30	Orientation Tour MHH
18:00-21:00	Twincore invites: Snacks, Happy Hour

Tuesday Aug. 18 th	Pattern Recognition Receptors, Dendritic Cells TWINCORE: Room 0.02
09:00-10:00	Tim Sparwasser* Topic Overview
	Tim Sparwasser Role of Myeloid-Specific TLR Signalling During Viral Infections: Lessons from Novel Genetic Models
10:00-10:30	Coffee Break
10:30-11:30	Elena Grabski Plasmacytoid dendritic cells in antiviral defence
	Kyeong-Hee Lee* Novel regulatory themes in TLR4-mediated inflammation
11:30-13:30	Lunch with Speakers
13:30-16:30	Students Poster Presentation I
16:30-17:00	Coffee Break
17:00-18:00 Lecture Hall G	Bernard Malissen Toward an integrative biology of T cells and dendritic cells (KFO 250)

Wednesday Aug. 19 th	Homeostasis and Inflammation in the intestine Immunity, Inflammation and Cancer TWINCORE: Room 0.02	
9:00-10:00	Matthias Lochner* Topic Overview	
	Matthias Lochner RORyt expressing cells and their role in intestinal immune regulation and inflammation	
10:00-10:30	Coffee Break	
10:30-12:00	Till Strowig Microbiota and Intestinal Immunity	
	Christine Falk* NK cells in Autoimmunity	
	André Bleich Colitis susceptibility in IL10-deficient mice depends on complex genetic and microbial factors	
12:00-14:00	Lunch with Speakers	
14:00-16:15	Thomas Schulz* Kaposi Sarcoma Herpesvirus: how infection of endothelial cells can lead to tumor formation	
	Abel Viejo-Borbolla Learning from viruses: viral modulation of cytokine activity	
	Cofee Break (15 min)	
	Thomas Pietschmann Pathways and barriers of hepatitis C virus replication	
16:15-17:00	Christine Goffinet* Emerging restriction factors of viral infections	
	Coffee Break	
17:00-18:00 Lecture Hall H	Nadine Cerf-Bensussan Post natal maturation of gut adaptive immune responses: role of Segmented Filamentous Bacterium (KFO 250)	

Thursday Aug. 20 th	Lung Inflammation, Asthma, Allergy TWINCORE: Room 0.02
9:00-10:00	Reinhold Förster* Topic Overview
	Reinhold Förster IL-17 in allergic sensitisation Tertiary lymphoid structures in the lung
10:00-10:30	Coffee Break
10:30-12:00	Susanne Häußler* Treatment Challenges of Chronic Pseudomonas aeruginosa Infections
	Almut Meyer-Bahlburg B cells in asthma
	Thomas Werfel T-cells and antigen-presenting cells in chronic cutaneous inflammation
12:00-14:00	Lunch with Speakers
14:00-14:30	Katherina Sewald* Neuroimmune Interactions in allergic asthma
14:30-16:30	Students Poster Presentation II
16:30-17:00	Coffee Break
17:00-18:00 Lecture Hall G	Ronald N. Germain Imaging Immunity: Developing a Spatiotemporal Understanding of Host Defense (SFB 900)

Friday, Aug. 21 st	Tregs, Th17, Gamma Delta T Cells, Autoimmunity TWINCORE: Room 0.02
9:00-10:00	Jochen Hühn* Topic Overview
	Jochen Hühn Epigenetic fixation of T cell fates
10:00-10:30	Coffee Break
10:30-12:00	Luciana Berod Metabolic regulation of T cell function
	Tim Sparwasser* Tregs in infection and vaccinology: heroes or traitors
	Immo Prinz IL-17 producing gamma-delta T cells
12:00-14:00	Lunch with Speakers
14:00-15:00	Reinhold E. Schmidt* Pathomechanisms in antibody-mediated inflammation
	Torsten Witte Identification of new autoantibodies as biomarkers of autoimmune disorders
15:00-16:00	Coffee Break
16:00-17:00 Lecture Hall G	Hugo Luján Mechanisms of antigen variation in pathogenic microorganisms (DAHZ/CUAA)
17:00 – Open End	Twincore invites: Barbecue, get together with HBRS students

Saturday, Aug. 22 nd	
15:00	City Tour Hannover
18:00	Firework Competitions Herrenhäuser Gärten

Sunday, Aug. 23 rd	FREE
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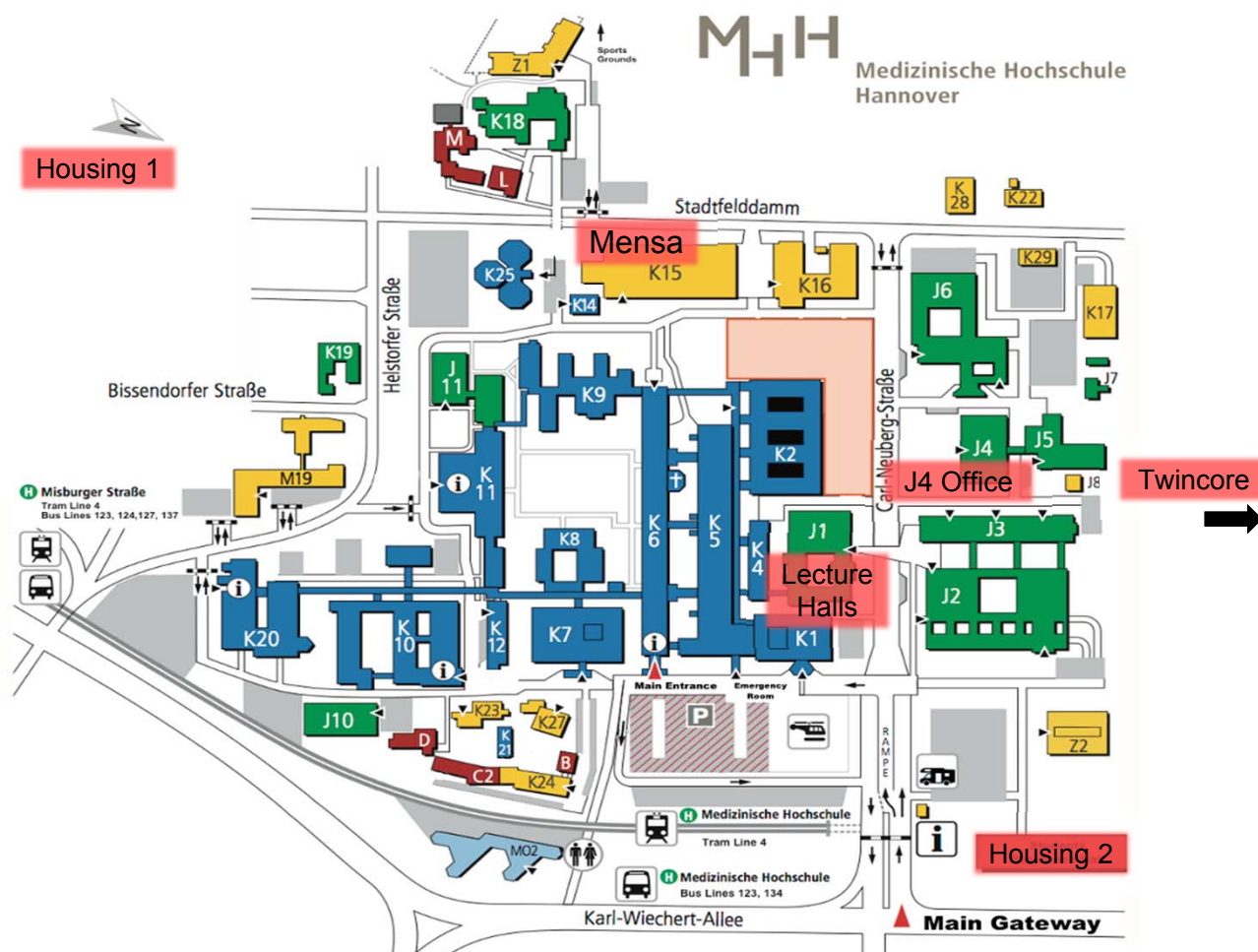
Aug. 24 th -30 th	Lab Rotations
Tuesday Aug. 25 th	9:00-11:00 MHH: Demonstration HUB / IVIS / Metabolomics/Proteomics
	Evening GOP Theatre
Wednesday Aug. 26 th	17.00-18.00 Lecture Hall G Wilfried Ellmeier - Epigenetic and Transcriptional Networks that Regulate T Cell Development and Function
Thursday Aug. 27 th	17.00-18.00 Lecture Hall G João Santana Silva - IL-17 in the resistance protozoa mediated diseases (DAAD/CAPEs)
Friday Aug. 28 th	18:00-19:00 Closing remarks, round table discussion & feedback
	19:00-21:00 Twincore Invitation: Happy Hour & Snacks

Aug. 31 st – Sept. 6 th	Lab Rotations
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Sept. 7 th – Sept 13 th	Lab Rotations
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* Chairs of the respective session

Finding your way around



Poster presentation

The presentation will be held in the foyer of the TWINCORE. The poster session will be a guided tour where everyone presents their poster in a short 3 minute presentation and 2 minutes of questions afterwards.

Demonstrations during the 2nd week

You will have the possibility to visit either the Hannover Unified Biobank, the IVIS imager or the metabolomics/proteomics platform.

Please sign in to the respective groups latest by Friday, 21st August.

City tour and fireworks

We will meet at the horse statue in front of the central station at 14:45 on Saturday, 22/8/15. Afterwards we'll go together to the Herrenhäuser Gardens.

GOP Variété theatre

We will meet in front of the GOP at 7 pm on Tuesday, 25/08/15. The GOP is at the stop "Kröpke" and right opposite of the opera house.

Things to do in Hannover

Appreciate Hannovers green spots: Eilenriede, Maschsee...
Saturday morning: visit the flea market am "Hohen Ufer" and view the "Nana" sculptures.
Nightlife: Enjoy the night in one of the many bars and clubs with music styles from mainstream to underground.

And around Hannover

Berlin: Germany's capital, only a 1.5 hour train ride away
Celle: Picturesque old town centre with over 400 timber-framed houses
Hamburg: The biggest port in Germany
Bremen: Statue of the „Town Musicians of Bremen“ from the Grimm fairytale
Hameln: „Pied Piper of Hamelin“ - one of Germany's most famous legends

Connect

Please feel free to join us on Facebook:

<https://www.facebook.com/groups/1402481040082092/>

Here we also transmit information before, during and after the LISA Summer Academy.

Also like our page "LISA Hanover":

<https://www.facebook.com/lisa.hanover.1>

Important Information

Housing

Your housing during LISA will be the following:

Student Housing 1 "Heidjerhof"

<http://www.studentenwerk-hannover.de/heidjerhof.html>

Or Student Housing 2 "Karl-Wiechert Allee"

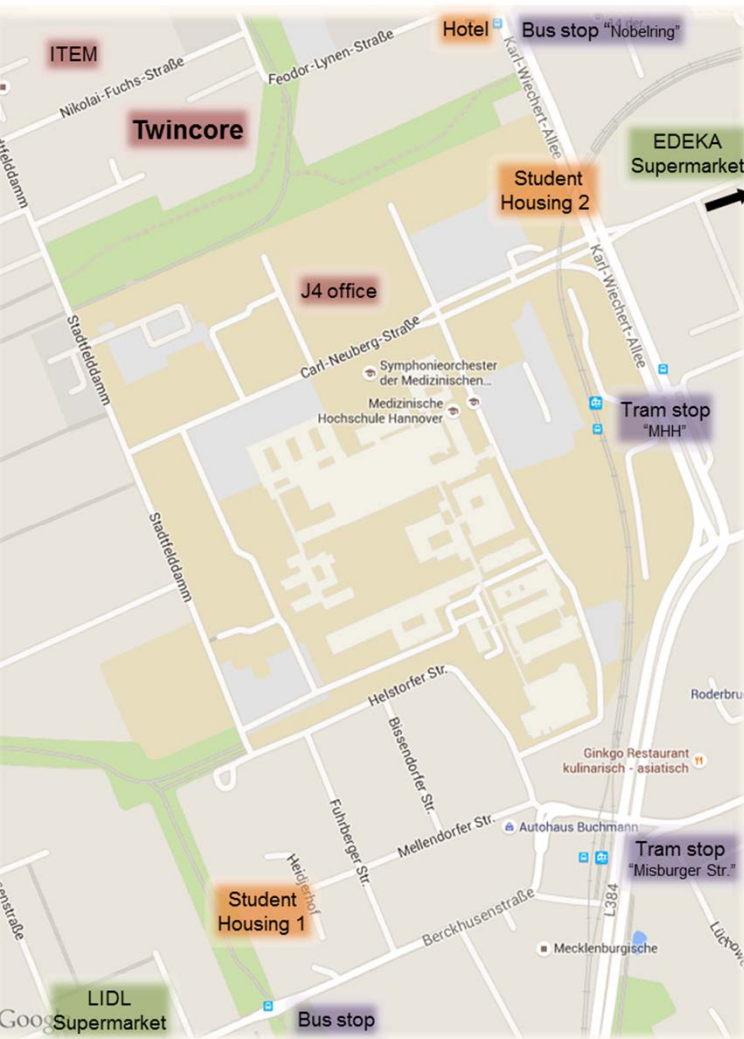
<http://www.studentenwerk-hannover.de/karl-wiechert.html>

The Student House Management is your contact for all formalities, questions and problems in regard to living in the student house.

Thorsten Widderich

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Contacts

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Emergency contacts:

Dr. Susanne Kruse +49 173 185622
Prof. Dr. Tim Sparwasser +49 176 15327200

In case of a medical emergency

The emergency room ("Notaufnahme") is at the main entrance of the MHH.

If you need to see a general practitioner:

Prof. Dr. med. Nils Schneider

(building K14 on the campus)

Mon: 9:30-12:30 and upon appointment

Phone: +49 511 532 3638

Internet access @ Twincore

Wifi hotspots will be available

Names: dlink-01 to dlink-11, Password:

ABBAABBA12

Shopping and getting around

There are supermarkets (LIDL and EDEKA) close to your dorms.

At the Hannover main train station ("Hauptbahnhof") you will find shops that are open on Sundays as well.

A tram ticket (take line 4 from MHH or Misburger Str.) to the city costs 2.60 € (1 zone, one-way), a one day ticket 5 € and a group ticket 9.60 € (TagesGruppenTicket for up to 5 persons).

Supported by:

