



October 25th, 2010

5. Newsletter

Dear HBRs Alumni students,

We proudly present our fifth HBRs Alumni newsletter on the occasion of the 10th anniversary of "structured doctoral training" at Hannover Medical School. Here, we will present last year's developments of Hannover Biomedical Research School (HBRs) as well as those of MHH. HBRs continues to be very successful. We have organized several memorable events like the first "career day" with lectures and industry exhibitions as well as the 2nd HBRs Summer School. Enjoy reading about our current activities as well as news from your fellow Alumni.

Thanks for your warm support and interest!



Reinhold E. Schmidt,
Dean of HBRs

Current status of HBRs and news

HBRs currently comprises **three international PhD programs** (the PhD program "Molecular Medicine", the PhD program "Infection Biology" and the PhD program "Regenerative Sciences") and **two DFG-funded research training groups**, one being a joint European program together with Karolinska Institute, Stockholm. A structured doctoral program for medical students was also established (**StrucMed**; Dr.med./Dr.med.dent.), as well as two HBRs-associated **Master programs** "Biomedicine" and "Biochemistry".

HBRs programs are solely PhD programs (3 years). Students are accepted after their Masters or MD (MBBS).

10 years of structured doctoral education October 2010



10 years of structured doctoral PhD education at Hannover Medical School

Our PhD program "Molecular Medicine" started in October 2000. We will celebrate the 10th anniversary on October 24th/ 25th 2010. (see next issue of Alumni Newsletter).

Currently, the various programs of HBRs host ~230 PhD students. In addition, 48 medical students were accepted for StrucMed as well as 54 new Master students (in two programs) this year. Of the PhD students, about 50% are international and around 25% have a medical background (~50% women).

Applications

In 2010, we received **936 applications** for our three PhD programs. HBRs seems to be well known now all over the world!© It was hard, but also interesting work to select our 60 new students among the highly qualified candidates, e.g. altogether ~200 interviews were conducted in Hannover and India. Applications are received online on www.hbrs-application.de



Master Class of Virology

- Persisting and oncogenic viral infections-

A report on the Master class by Vanessa Melhorn (PhD Molecular Medicine 2008) and Anja Marquardt (PhD Infection Biology 2007):

In autumn 2009 (November 12th-14th 2009) PhD students of the Institute of Virology (MHH) and Experimental Virology (Twincore) organized the first Master Class of Virology, which focused on persisting and oncogenic viral infections. The idea was to arrange an interesting scientific meeting giving PhD students an opportunity to meet experts from different fields of virology in a relaxed atmosphere. The invited speakers came from different parts of Europe and the US: Judith Breuer (London), Sigrun Smola (Homburg), Jeremy Luban (Geneva), Matthew Weitzman (La Jolla), Félix Rey (Paris), Stephan Beck (London), Wolfgang Hammerschmidt (Munich) and Charles Bangham (London). They presented interesting new insights about their research, discussed students' projects in the poster sessions and gave tutorials in small groups of up to eight students. 34 students from the HZI in Braunschweig, the Twincore and the MHH used the opportunity to present posters about their PhD projects during the poster walks and had the chance to choose two tutorials with guest speakers. The speakers' talks were attended and discussed not only by PhD students, but also by post docs and principal investigators. The successful acquisition of sponsors from industry and the generous financial support from the three participating scientific institutes allowed the organizing committee to offer attendance of the lectures, the tutorials in the Twincore and a social dinner in "Meyers Gasthof" (Zoo Hannover) free of charge for participants and interested post docs.

Master Class Virology November 2009; Poster walk



The Master Class of Virology was planned as a meeting organized by PhD students for PhD students. As so many excellent speakers participated, we were able to cover a broad spectrum of themes, including virus-host interactions, structure and function relationships and various different pathogens such as HIV, EBV and VZV. We got the impression that the meeting was very useful for all of the participating students providing an ideal opportunity to learn more about neighboring fields and to broaden the scope of personal interest. Even the speakers told us that they liked the relaxed atmosphere and the interested students of the Master Class of Virology. Despite a lot of work we had a lot of fun and gained valuable experience.

2nd HBRS Summer School September 2010; Goslar mines



2nd Summer School "Gene regulation, Cell differentiation & Tolerance"

The second HBRS summer school on "Gene regulation, cell differentiation and tolerance" took place from September 12th-16th, 2010, in Goslar (on the "Hessenkopf"). About 15 outstanding key speakers from all over the world participated, among others Frank D. Böhmer, Michael Boutros, Thomas Braun, Thomas Decker, Christine Falk, Eileen Furlong, Lothar Hennighausen, David Ish-Horowicz, Ludger Klein, Richard Moriggl, Freddy Radtke, Ellen Rothenberg. Key lectures in the morning and early afternoon were followed by lively poster sessions of students as well as small-group tutorials (journal clubs) in the evening. The wonderful familiar and creative atmosphere was last but not least supported by the fantastic food and facilities of the hostel, the beautiful old city (experienced during a guided tour) as well as our trip to the mines "Rammelsberg" including a walk underground.



Career day

In 2009 HBRS started its new initiative "Career perspectives and development". A very successful lecture series was established where Alumni, friends and MHH associates are invited to talk about their personal career, describe their current work and advise our PhD students how to proceed in life. In addition, some workshops on "Job Hunting", "Professional Scientific Writing" as well as "Project Management in the Biotech Industry" were organized.

The initiative is kindly supported by means of the EU (EFRE) with ~100,000 Euro (till 2012).

*"Science... never solves a problem
without creating ten more."*

George Bernard Shaw (1856-1950)

Activities 2009

Numerous activities were organized throughout the year. Here only highlights and courses offered for the first time are mentioned:

The annual "Intercultural Communication Workshop" together with MSc/PhD programs of Göttingen was held in Frille from June 4th-6th, 2010 (trainers Alexia and Stephan Petersen).

Fritz Hartmann Lecture

Oktober 2009; Prof. Dr. Georg Holländer;
University Clinics of Basel, CH



On November 12th-14th, the third Master class on "Persisting and oncogenic viral infections" **for the first time organized by PhD students for PhD student** took place (see report above).

The second summer School on "Gene regulation, cell differentiation and tolerance" was held in Goslar (Hessenkopf) from September 12th-16th, 2010 (see above).

Several courses and lectures in the field of "Career perspectives and development" were offered. A career day took place on February 19th (see above).

Apart from the scientific work, students enjoyed several parties and other cultural and social events being organized also in cooperation with the International Office.

HBRS orientation weeks start on October 4th. On October 25th the joint opening ceremony in the afternoon will take place in course of the 10 years ceremony. Prof. Fritz Melchers (MPI Berlin) will give this year's "Fritz Hartmann Lecture" on "Dreams of curing inherited immuno-deficiencies".

Orientation weeks

October 2009; in Celle (town center)



*"You do not really understand
something unless you can explain it to
your grandmother."*

Albert Einstein (1879-1955)



Final exams

In November 2010 and June 2010, fifteen students of the PhD program “Molecular Medicine” successfully passed their final exams (Kathrin Steinwede, Maria Gschwandtner, Lydia Asrat Haile, Dhivya Haridass, Shahzad Nawaz Syed, Ursula Ehmer, Tobias Mätzig, Natalie Naue, Reena Singh, Priyanka Dutta, Wilhelm Walter, Nidhi Narain, Manoj B. Menon, Amrita Rai, Arpita Baisantry). The next exams are expected for November 19th.

Award of HBRS PhD prize

Oct. 2009; Tibor Veres, PhD Molecular Medicine



The final exams in the PhD program “Infection Biology” took place on January 22nd, 2010 (Nadja Bakocevic, Nupur Bhatnagar, Nicole Dietrich, Jan Hänisch, Florian Klauschies, Manju Nagarajan, Quan Qiu, Fabienne Rehren, Julia Schipke, Swati Shukla, Rachel Thomas) followed by the next ones on June 18th, 2010 (Christiane Brohm, Sirine El Houry Mignan, Swantje Hammerschmidt, Anika Hävemeier, Sonja Horatzek, Rajesh Kolli, Anna Leybo, Claudia Moccia, Miriam Nörder, Ulfert Rand, Anchana Rathinasamy, Barkha). The next final exams are scheduled for January 22nd, 2010.

Award of HIRSIB PhD Prizes

Jan. 2010; Jan Hänisch, PhD Infection Biology



June 2010; Christiane Brohm, PhD Infection Biology



News from MHH

MHH has received the considerable amount of 81.3 Million Euro from third parties for its research activities in 2009 (this is even more than in 2008). MHH is the German-wide **number one** regarding extramural funding in relation to the number of professors! From 2007 to 2009, in total 28 novel research professorships were assigned to external candidates.

Several **new** DFG initiatives were successful and are now supported for the next four years. These are the SFB 900 “Chronic infections: microbial persistence and its control” and the SFB/Transregio 77 “Liver cancer: from molecular pathogenesis to directed therapy”. The BMBF is supporting a new innovative transplant and biomedicine technique center (NZ-BMT) with 53.8 Million Euro.

The “Care-for-Rare Foundation” of the Clinics for Pediatric Hematology and Oncology as well as the Excellence Cluster “REBIRTH” were awarded the prize “Selected Location of Ideas” in the German-wide competition for innovations, where in total 365 places were selected.

Prof. Dr. Christoph Klein (Pediatric Hematology & Oncology) was awarded the prestigious DFG Leibniz Research Prize (2.5 Million Euro) in March 2010.

MHH will inaugurate its third childcare facility in October 2010!



News in Research

In this section, we will regularly publish short reviews of important and recent achievements in selected research fields, or useful tips! Everybody is welcome to contribute.

How herpesviruses travel through the cell



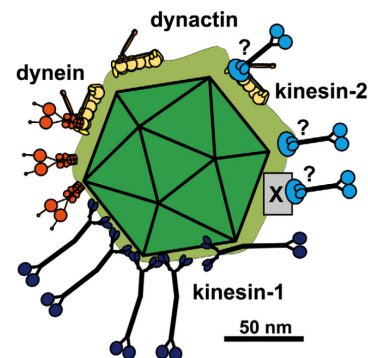
by Kerstin Radtke, Germany

PhD Infection Biology, final exam June 2008; currently Département de pathologie et biologie cellulaire, Université de Montréal, Montréal, Canada

After a virus enters a cell, it has to reach certain places in the cell at specific times of its lifecycle in order to replicate and spread. First it has to reach a compartment where its genome can be replicated, and for most DNA viruses like herpesviruses this compartment is the nucleus. Later on, newly synthesized virus particles have to reach the plasma membrane of the cell in order to spread to neighbouring cells. To reach their desired destinations, virus particles hitchhike along the cell's long distance transport routes, the microtubules. Different types of motor proteins 'walk' along these tubular tracks, but one type of motor is capable of long-distance transport in one direction only. Dynein can walk towards the cell center and nucleus, kinesins walk in the opposite direction. Herpesvirus particles make use of both types of motors, but how do they know which way to go?

The group of Prof. Beate Sodeik at the Institute of Virology at MHH has studied this question for many years. We used a cell free system to analyze the interactions of native viral particles with microtubule motors. This system works like a classic pull-down: instead of beads, viral particles are incubated in cytosol containing motors, or in solutions of purified motor proteins. The particles are then sedimented, and analyzed for cosedimented motors. With this system, we were recently able to show that HSV1 capsids can directly recruit dynein, its cofactor dynactin and kinesin to their surface (Radtke K, et al. PLoS Pathog. 2010; 6 (7): e1000991.).

A thorough characterization of the virus particle composition and surface indicates that these



cellular protein X to do so or not.

Individual capsids could recruit several copies of a motor, and different motors at once. (Radtke et al. 2010, PLoS Pathogens 6: e1000991)

HSV1 capsid interacting with motors and dynactin.

The scheme has been drawn to scale and assuming that the microtubule binding domains of the motors point away from the capsid to enable microtubule binding. Dynein, dynactin and kinesin-1 can interact directly and independently of each other with the capsids. Kinesin-2 can also bind to capsids, but we do not yet know whether it requires another

motors bind via different surface features - the viral 'motor receptors' - that are all present on one type of viral particle. Therefore, herpesvirus capsids can bind motors of opposing directionality simultaneously, indicating that not selective motor recruitment, but rather a regulation of the activity of motor complexes already bound to a virus particle determines transport direction. Interestingly, one individual viral particle also bound several motor complexes of a kind at the same time, similar to cellular vesicles that are transported by the same motors. This is thought to facilitate a fast processive transport, and to make sure that motors and their cargo do not 'fall off' the microtubule track.

Herpes Simplex Virus type 1 causes cold sores, but also life threatening infections of the brain, and infection of the eyes can lead to blindness. Furthermore, herpesviruses are a common source of complications during organ transplantation, when an infected organ meets an uninfected and immunocompromised recipient. A better understanding of the long range transport mechanism used by these viruses might help to develop novel antiviral therapy. But the identification of the viral motor receptors is of interest not only as a potential antiviral drug target, but also in nanotechnology. Herpesvirus capsids are very stable hollow protein containers that could be used to deliver pharmacological components or therapeutic genes a long distance along microtubules. This would be of particular interest in neurons, the target cells of Herpes Simplex Virus type 1, and could enable the administration of these therapeutic compounds deep into a patient's brain.



View from abroad

In this section, we will regularly publish short reports of experiences of our Alumni students as Postdocs etc. abroad! Everybody is welcome to contribute.



Thomas Gebhardt, Germany

PhD program “Molecular Medicine”; final exam November 2005; currently Department of Microbiology and Immunology, University of Melbourne, Australia

Immunology Down Under

Australia is best known for its exotic wildlife, tropical islands, beautiful beaches, sports like cricket and rugby, and of course the outback – Australia’s endless desert. A few years ago, I discovered an additional, quite different attraction to this country – its excellent infrastructure for biomedical research.

Having graduated, I left Hannover to head towards Melbourne, located in the southeast of Australia. A two-year fellowship from the DFG allowed me to join Professor Frank Carbone’s lab in the Department of Microbiology and Immunology in Melbourne. Before I left Hannover, I already had a fairly good impression of what to expect as a postdoc working in Frank’s lab. I had caught up with him twice while travelling Australia in the years before. Furthermore, I had talked to students in his lab and to other researchers working closely with him. Looking back, I think being well organised with this actually paid out. So far, I have postponed my return back to Germany couple of occasions. After my DFG fellowship ran out in 2007, Frank took me on as a Senior Research Officer, and last year I was granted a Career Development Award and a Project Grant from the National Health and Medical Research Council – both of which will support me for a little longer.

Area-wise, Australia is twenty-times larger than Germany and, has only roughly a quarter of Germany’s population. Australia is rich in natural resources and, quite remarkably, wasn’t nearly as affected by the recent global financial crises as other industrialised countries. Accordingly, a decent amount of money is still being invested into biomedical research. As a consequence, there

are many new research institutes in Melbourne and elsewhere. The Department of Microbiology is strategically well positioned in close proximity to other major research institutes such as the Walter and Eliza Hall Institute of Biomedical Research, the Ludwig Institute of Cancer Research and the Peter MacCallum Cancer Centre. There is plenty of interaction between these institutes, which effectively means that, through collaboration with other researchers, we have access to a broad range of biomedical techniques. There is also plenty of scientific collaboration within our department itself, and I believe it is the friendly and relaxed atmosphere as well as the absence of strong hierarchies that are facilitating and encouraging these interactions. Research groups are focussing on a broad range of topics including the immunobiology of influenza virus, herpes simplex virus and HIV infection, NK and NKT cell biology, T cell and dendritic cell biology, as well as structural immunology. With Peter Doherty, the department also hosts a nobel laureate who co-discovered the fundamental mechanism of how T cells can recognise virally infected cells. Taken together, I can say that I am quite happy to be part of an incredibly creative and inspiring scientific environment.



Apart from the science, Australia and particularly Melbourne have lots to offer. It only takes a short drive or flight to get to beautiful national parks in coastal areas, deserts, tropical rainforests and remote islands. The city is also known for its European style and friendly atmosphere. Although unfortunately somewhat isolated from the rest of the world with the long distance to Germany and rather limited contact with family and friends at home, I am still very much enjoying to live and to work here. Finally, having six months of summer weather in a row with plenty of barbecues, outdoor activities and wildlife makes it easy to not worry too much about the “isolation” or being “down under” anyway...



Announcements

Marriages: Many of our students have married recently. We know of Florence Njau, Florian Klauschies, Frederick Onono. *Congratulations!!*

Children ☺: There are new "HBRS babies" by Anastassia&Shashi, Florian Klauschies, Henoch Hong, Anika Hoffmann. *Congratulations!!*



Prizes

Some Alumni students were awarded important prizes for their research achievements:

Tibor Veres (PhD "Molecular Medicine", exam November 2008) received the HBRS PhD prize 2009 (1.000,- Euro).

Jan Hänisch and Christiane Brohm (PhD Infection Biology, exams January and June 2010) received the HIRSIB prize by ZIB (1.000,- Euro).

Swantje Hammerschmidt (PhD Infection Biology, exam June 2010) received the BD Biosciences PhD Prize by ZIB (1.000,- Euro).

Award of BD Biosciences PhD Prize June 2010; Swantje Hammerschmidt, PhD Infection Biology



Krishna Kumar Singh (PhD Molecular Medicine, exam June 2006) won the prestigious Vivien Thomas Young Investigator Award 2009 by American Heart Association, Orlando, USA. In addition, he received the 2nd Prize for the Gallie-Bateman and McMurrich Research Presentation 2010 by University of Toronto, Toronto, Canada.

Maria Gschwandtner (PhD Molecular Medicine, exam November 2009) won the "Astellas Förderpreis Dermatologie" as well as the "Young Investigator Award" of EHRs (European Histamine Research Society) in 2009.

Tom Lüdde (PhD Molecular Medicine, exam November 2004) won the prize for the "best basic sciences study" on the annual meeting of the European Association of Liver Diseases (EASL) in 2010 and was promoted as "Rising Star" by the European Society of Gastroenterology (ASNEMGE).

What is....doing?

Frederick Onono, PhD Molecular Medicine 2004: Frederick is currently at the University of Kentucky in Lexington for 9 months. He is based in the departments of Molecular and Cellular Biochemistry, as well as Cardiovascular Sciences. He still works on prenylation, trying to understand how pathways that regulate synthesis of the main molecular, Farnesyl Pyrophosphate (FPP), can be exploited in the biology of cancer and cardiovascular pathologies. They synthesize analogues of key molecules including FPP to monitor incorporation into proteins and to some extent lipids using e.g. Liquid Chromatography, Mass Spectrometry, Click Chemistry. At the moment, he is busy in publishing his results, also from his PhD. He has had his life moving forward in all directions. So, he is already married and settled. They had a very colourful, once in a lifetime, wedding in his village in Kenya. It was very open and as many villagers as he could think of were attending.



Message from....

Henoch Hong (PhD Molecular Medicine 2005): Grace and I are delighted to announce that we have a baby boy since May 6th. We have named him Samuel Paul. Greetings to everybody!
Henoch

P.S. If you would like to get in touch with anybody from this section or from the huge Alumni list below, please contact the HBRS office. We will be happy to assist you!



Current list of HBRS Alumni students



PhD program "Molecular Medicine"

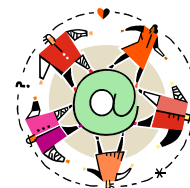
year 2000 (final exams 2003)

- 1.) **Masoumeh Attaran-Bandarabadi:** Gastroenterology/Hepatology/Endocrinology, MHH
- 2.) **Yasmin Dulkys:** three children, Hannover
- 3.) **Veit Erpenbeck:** Habilitation at MHH 2007; Merck AG Darmstadt; from 2010 Novartis Institut für BioMedische Forschung, Basel
- 4.) **Masami Rudolph:** Otolaryngology, University Hospital Ulm
- 5.) **Gernot Sellge:** Institut Pasteur, Molecular Microbiology, Paris; from 2010 Universitätsklinikum Aachen, Medizinische Klinik III, Germany
- 6.) **Julia Skokowa:** Paediatric Haematology & Oncology, MHH (Junior group leader)
- 7.) **Andreas Tiede:** Haematology & Oncology, MHH

year 2001 (final exams 2004/2005)

- 8.) **A. Wahid Ansari:** Immunology, Imperial College London, UK; from 2010 Pediatric Pneumology, MHH
- 9.) **Ferdinand Bahlmann:** Nephrology, MHH; Epoplus GmbH; M.Sc.P.M. Duisburg; Research coordinator, Medical Clinics IV, University Hospital, Homburg/Saar
- 10.) **Asha Balakrishnan:** Molecular Oncology, Institute for Cancer Research and Treatment (IRCC), Turin, Italy; from 2007 Medicine, UCSF, San Francisco, USA
- 11.) **Christian Bernreuther:** Neuropathology, University Hospital Hamburg-Eppendorf
- 12.) **Frank Bollig:** Molecular Genetics, Institute for Molecular Biotechnology (IMB), Jena; 2009 Clinical Chemistry, MHH; from 2010 Nephrology, MHH
- 13.) **Marc H. Dahlke:** Liver Stem Cell Group, Surgery, Regensburg; 1 year Sydney, AUS; Surgery Regensburg, (Habilitation), "Oberarzt" (senior physician); International Surgical Oncology Fellow, Memorial Sloan Kettering Cancer Center, New York City, USA
- 14.) **Meta Djojosebroto:** Gene Therapy & Stem Cell Biology, Jules Gonin Eye Hospital, Lausanne, Switzerland
- 15.) **Julia Freise:** from 2006 Pneumology, MHH

- 16.) **Christoph Happel:** Paediatric Cardiology, MHH
- 17.) **Vladimira Jakubcakova:** Genes & Behaviour, Max-Planck-Institute for Biophysical Chemistry, Göttingen; from 2007 MPI Psychiatry Munich
- 18.) **Yijiang Li:** Thoracic & Cardiovascular Surgery, MHH
- 19.) **Jianyun Liu:** Beijing (V.R China)
- 20.) **Tom Lüdde:** EMBL Mouse Biology Unit, Monterotondo, Italy; from 2007 Medical Hospital III, Aachen (Habilitation), "Oberarzt" (senior physician)
- 21.) **Ebru Serinsöz-Pfeiffer:** mother of one child; Associate Professor of Pathology, Mersin, Turkey
- 22.) **Frank Tacke:** Mount Sinai School of Medicine New York; from 2006 Medical Hospital III, Aachen (Habilitation), "Oberarzt" (senior physician)
- 23.) **Mathewos Tessema:** Pathology, CRF 225, New Mexico, HSC, USA; from 2010 associate scientist at Lovelace Respiratory Research Institute, Albuquerque, NM USA
- 24.) **Sonja Werwitzke:** Haematology & Oncology, MHH



year 2002 (final exams 2005/2006/2007)

- 25.) **Diya Abraham:** Genes & Behaviour, Max-Planck-Institute for Biophysical Chemistry, Göttingen; from 2008 Dept. of Neurology, UCSF, San Francisco, USA
- 26.) **Syed Raza Ali:** Pharmacology, University of California, San Diego, USA
- 27.) **Georg Bohn:** Paediatrics, MHH, specialist; 7 months Médecins sans Frontières-MSF in Niger; from 09/2009 Paediatric Haematology Lectureship, Imperial College London
- 28.) **Thomas Gebhardt:** Microbiology & Immunology, The University of Melbourne, Australia
- 29.) **Shashi Kant:** Biochemistry & Molecular Pharmacology, Worcester, Massachusetts, USA
- 30.) **Claudia Karacsonyi:** Cell Biology, NHLBI, NIH, Bethesda, USA; from 2009 Drug development and Discovery, Italian Institute of Technology, Genoa, IT
- 31.) **Varsha Kumar:** Theodor Kocher Institute, Bern, Switzerland
- 32.) **Gesa Meyer:** Lohmann Animal Health GmbH, Cuxhaven
- 33.) **Anika Hoffmann (Meyerholz):** Paediatric Pneumology, MHH; 2010 babypause



34.) Christina Nassenstein: Fraunhofer Institute, Hannover; from 2007 Allergy and Clinical Immunology, Johns Hopkins University School of Medicine, Baltimore, USA; from March 2009 Anatomy and Cell Biology, University of Giessen (Junior group leader)

35.) Axel Schambach: Experimental Haematology, MHH (Junior group leader)

36.) Aravind Sekhar: Molecular Biology, MHH; Residency at Providence, Rhode Island, USA

37.) Amar Deep Sharma: Gastroenterology/Hepatology/ Endocrinology, MHH; from 2006 Developmental and Stem cell Biology, UCSF, San Francisco, USA; from 2009 REBIRTH MHH

38.) Krishna K. Singh: Mount Sinai Hospital, Toronto, Canada; St. Michael's Hospital, Division of Cardiac Surgery, Toronto, Canada

39.) Manvendra K. Singh: Genetics & Development, Columbia University, New York, USA; from 2008 Cell and Developmental Biology, School of Medicine, University of Pennsylvania, Philadelphia, USA

40.) Frank Traub: General, Visceral- and Transplant Surgery, Tübingen

41.) Linding Wang: Virology, MHH; from 2007 Wuhan Institute of Virology, Chinese Academy of Sciences, China

year 2003 (final exams 2006/2007/2008)

42.) Khaled Alkharsah: Virology, MHH; from 2010 Prince Mohammed Bin Fahd Center for Research, University of Dammam, Saudi Arabia

42.) Tammy Bohn (Chang): Grenoble, France, from 08/2009 London with Georg Bohn; Medecins sans Frontiers; from July 2010: babypause

43.) Anuhar Chaturvedi: Lund, Sweden, from 2007 Haematology & Oncology, Marburg, Germany; from 2009 Haematology & Oncology, MHH

44.) Dorothea Dijkstra: Dermatology, MHH; from 2008 Fraunhofer Institute ITEM Hannover

45.) Dorothea Gadzicki: Junior professor, Pathology, MHH

46.) Jaba Gamrekelashvili: Gastroenterology, MHH (TwinCore); from 2010 National Cancer Institute, NIH, Bethesda, USA

47.) Arnab Ghosh: Paediatric Haematology & Oncology, MHH; from 2007 Memorial Sloan Kettering Institute, New York, USA

48.) Shipra Gupta: Pharmacology, Experimental and Clinical Peptide Research; from 2007 Transplant Immunology, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, USA

49.) Eric Hesse: Harvard Medical School, USA

50.) Kumaravelu Jagavelu: Mayo Clinic, GI Research unit, Rochester MN, USA

51.) Andri Pramono: mother, Bonn

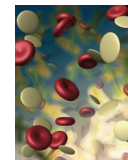
52.) Rahul Purwar: Dermatology, MHH; from 2007 Dermatology, Harvard Medical School, Boston, USA

53.) Bishnudeo Roy: HZI Braunschweig

54.) Gustavo Salguero Lopez: Haematology & Oncology, MHH

55.) Tibor Veres: Fraunhofer Institute ITEM; from 2010 MediCity Research Laboratory, Turku, Finland

56.) Anastassia Vertii: UMASS Doherty Lab, Worcester, Massachusetts, USA



year 2004 (final exams 2007/2008/2009)

57.) Rannar Airik: Molecular Biology, MHH; from 08/2009 Paediatrics & Human Genetics, Ann Arbor, Michigan, USA

58.) Abdul Mannan Baru: from 2008 Albert Einstein College of Medicine, New York, USA; from 2009 at TwinCore Hannover

59.) Sangeeta Chauhan: Gastroenterology, MHH; IMCB Singapore

60.) Mingmin Chen: Gastroenterology, MHH

61.) Prajeeth C.K.: Clinical Microbiology & Immunology & Hygiene, University Hospital Erlangen

62.) Kursheed Iqbal: FAL Mariensee

63.) Joanna Jagielska: REBIRTH MHH

64.) Adan Chari Jirmo: Immunology and Rheumatology, MHH

65.) Gamze Kabalak: worked in UK for big pharmacy group; now pharmaceutical company in Magdeburg

66.) Nonsikelelo Mpofu: Gastroenterology, MHH

67.) Frederick Onono: Hematology/ Oncology, MHH; from 2010 USA

68.) Erkhembulgan Purevdorj: Senior Lecturer of Genetics, Health Science University, Mongolia

69.) Aaheli Choudhury Roy: Gastroenterology/ REBIRTH, MHH

70.) Jessica Schwermann: Physiological Chemistry, MHH

71.) Meera Shah: Burnham Institute for Medical Research, La Jolla, USA

72.) Anurag K. Singh: Gastroenterology, MHH

73.) Leena Srivastava: Postdoc New Jersey, USA; second Postdoc Georgia University, USA



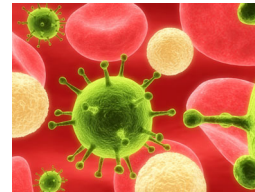
- 74.) **Basant Thakur:** Paediatric Haematology & Oncology, MHH
 75.) **Murat Ünalán:** Paediatric Haematology & Oncology, MHH; soon Boston USA
 76.) **Fei Zhao:** TwinCore Hannover; from 2010 National Cancer Institute, NIH, Bethesda, USA

year 2005 (final exams 2008/2009/2010)

- 77.) **Ursula Ehmer:** Sage Lab, Department of Pediatrics, University of Stanford, USA
 78.) **Matthias Christgen:** Pathology, MHH
 79.) **Priyanka Dutta:** Physiological Chemistry, MHH
 80.) **Luis Miguel Guachalla:** University of Ulm
 81.) **Lydia Asrat Haile:** National Cancer Institute, NIH, Bethesda, USA
 82.) **Harshvardhan:** University of Ulm
 83.) **Henoch Hong:** Clinic for Immunology and Rheumatology MHH; from 2010 NEPRC New England Primate Research Center, Harvard Med. School, Boston, USA
 84.) **Ananta Paine:** Transfusion Medicine MHH
 85.) **Amrita Rai:** Biophysical Chemistry MHH
 86.) **Mathias Rhein:** Core facility "Cell sorting" MHH; from 2010 teacher
 87.) **Reena Singh:** Molecular Biology MHH
 88.) **Inga Sörensen:** Nephrology MHH
 89.) **Ujala Srivastava:** University of Ulm; from 2010 Jackson Lab, Main/USA
 90.) **Kathrin Steinwede:** Experimental Pneumology MHH
 91.) **Shahzad Nawaz Syed:** Lab of Prof. Mack, Innere Medizin II Nephrology/Research, University Hospital Regensburg, Germany
 92.) **Dong Wang:** Dermatology MHH; University of Vienna, Austria
 93.) **Alexander Wolf:** Institute of Pharmacology, University of Giessen, Germany
 94.) **Katja Zscheppang:** Paediatrics MHH

year 2006 (final exams 2009/2010)

- 95.) **Arpita Baisantry:** University of Ulm
 96.) **Maria Gschwandtner:** Dermatology MHH
 97.) **Dhivya Haridass:** Munich, Germany
 98.) **Tobias Mätzig:** Experimental Hematology and Oncology, MHH
 99.) **Manoj B Menon:** Physiological Chemistry MHH
 100.) **Natalie Naue:** Biophysical Chemistry MHH
 101.) **Nidhi Narain:** New Delhi, India
 102.) **Wilhelm Walter:** Max-Planck Institute Dresden



PhD program "Infection Biology"

year 2003 (final exams 2006/2007/2008)

- 1.) **Simon Berberich:** Mannheim
- 2.) **Tanja Bosse:** Virology, MHH
- 3.) **Eva Gellermann/née Brüning:** dental prosthetics (CrossBIT), MHH
- 4.) **Michael Düwel:** GSF - National Research Center for Environment and Health, Munich; from 2010 head of lab at Multimmune GmbH, Munich, Germany
- 5.) **Heidi Imhoff:** Essex Pharma GmbH, Munich; Medical Science Liaison, Immunology, Schering-Plough Inc., Vancouver, Canada
- 6.) **Susanne Lerch:** ICON Clinical Research GmbH, Frankfurt, Germany; now ICON Clinical Research (UK) PLC, Marlow, UK
- 7.) **Petra Lühje:** Microbiology, Tumor and Cell Biology (MTC), Karolinska Institute, Stockholm, SE
- 8.) **Maren Mönkemeyer:** Clinical Immunology, MHH; from Oct. 2007 QUISIANA Pharma, Hannover
- 9.) **Patrick Olbermann:** Zentrum für Infektionsforschung, University of Würzburg
- 10.) **Simone Reinwald:** Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia
- 11.) **Melanie Rust:** Microbiology MHH; 2010 babypause
- 12.) **Sebastian Seth:** Immunology, MHH
- 13.) **Jessica Thalmann:** Nephrology, MHH
- 14.) **Kristina Theusner:** Virology, MHH
- 15.) **Angelika Hafke/ née Waltermann:** University of Göttingen, Medicine, Central Laboratory
- 16.) **Claudia Welz:** TiHo, Hannover
- 17.) **Ulrike Wittkopp:** QUISIANA Pharma, Hannover
- 18.) **Tim Worbs:** Immunology, MHH; studying human medicine at MHH

year 2004 (final exams 2007/2008/2009)

- 19.) **Vanessa Barroso:** UK
- 20.) **Maike Diddens-de Buhr:** Central Animal Laboratory, MHH; from 2009 Animal Evolutionary Ecology, University of Münster
- 21.) **Nicolas Fasnacht:** Experimental Immunology, HZI, Braunschweig; from 2009 EPFL Lausanne



Alumni

- 22.) **Davide Ferraris:** University of Eastern Piedmont, Novara, Italy
- 23.) **Julia Heinzmann:** Friedrich-Loeffler-Institute of Farm Animal Genetics in Mariensee
- 24.) **Kay Johswich:** Molecular Genetics, Toronto, Canada
- 25.) **Janet Krege:** Merck AG, Darmstadt
- 26.) **Marcin Lyszkiewicz:** Immunology, MHH
- 27.) **Priyanka Narang:** Centre for Immunology and Infection, University of York, UK
- 28.) **Julia Pulverer:** Molecular Biotechnology, HZI
- 29.) **Kerstin Radtke:** Département de pathologie et biologie cellulaire, Université de Montréal, Canada
- 30.) **Peter Reichardt:** Institute of Molecular and Clinical Immunology, University of Magdeburg
- 31.) **Upneet Sandhu:** Gene Regulation and Differentiation, HZI
- 32.) **Sven-Christian Sensken:** Abbott GmbH, Hannover
- 33.) **Nuno Viegas:** Molecular Immunology, HZI
- 34.) **Stefanie Weiß:** Wolfson Institute of Biomedical Research, University College London, UK
- 35.) **Caroline Zaoui:** Microbiology, Greenloop, Brussels, Belgium
- 36.) **Beata Zygmunt:** Vaccine Research, HZI, Braunschweig

year 2005 (final exams 2009, 2010)

- 37.) **Nadja Bakocevic:** Singapore
- 38.) **Nupur Bhatnagar:** Clinic for Immunology and Rheumatology, MHH
- 39.) **Anna Leybo:** Medical Microbiology, MHH
- 40.) **Sara Bartels (Leschner):** Molecular Immunology, HZI
- 41.) **Mandy Glaß:** MRC Unit Virology, University of Glasgow, UK
- 42.) **Lydia Janus:** Central Animal Laboratory, MHH
- 43.) **Jessica Janus:** Kräusslich GmbH, Heidelberg
- 44.) **Vanessa Jensen:** Cell Biology, TwinCore
- 45.) **Julia Micklinghoff:** Medical Microbiology MHH; action medeor e.V. Deutsches Medikamenten-Hilfswerk, Tönisvorst, Germany
- 46.) **Claudia Moccia:** Medical Microbiology, MHH
- 47.) **Florence Njau:** Nephrology, MHH
- 48.) **Stefan Pachnicke:** Parasitology, TiHo Hannover
- 49.) **Marcel Pietrek:** Virology, MHH
- 50.) **Quan Qiu:** Pathology, Feinberg School of Medicine, Chicago, USA

- 51.) **Girish Ramachandran:** Center for Vaccine Development, School of Medicine, Baltimore, USA
- 52.) **Julia Schipke:** Virology, MHH
- 53.) **Swati Shukla:** Sweden
- 54.) **Malgorzata Szczodrak:** Cytoskeleton Dynamics, HZI
- 55.) **Halina Tegetmeyer:** Microbial Fitness, Max Planck Institute for Marine Microbiology, Bremen
- 56.) **Milena Tosiek:** Immune Regulation, HZI
- 57.) **Sarvari Velaga:** Haematology&Oncology, MHH
- 58.) **Tetyana Yevsa:** Chronic Infection and Cancer, HZI

year 2006 (final exams 2010)

- 59.) **Nicole Dietrich:** Frankfurt
- 60.) **Sirine El Houry Mignan:** Biophysical Chemistry, MHH
- 61.) **Swantje Hammerschmidt:** Immunology, MHH
- 62.) **Jan Hänisch:** Signaling and Motility, HZI Braunschweig
- 63.) **Anika Hävemeier:** Virology, MHH
- 64.) **Sonja Horatzek:** Pediatric Pneumology, MHH
- 65.) **Florian Klauschies:** head of lab, Essex Animal Health, Burgwedel, Germany
- 66.) **Rajesh Kolli:** Virology MHH
- 67.) **Manju Nagarajan:** Regensburg
- 68.) **Miriam Nörder:** Vaccinology, HZI
- 69.) **Ulfert Rand:** Gene regulation and Differentiation, HZI
- 70.) **Anchana Rathinasamy:** Immunology, MHH
- 71.) **Fabienne Rehren:** Virology, MHH
- 72.) **Rachel Thomas:** Oslo, Norway

year 2007 (final exams 2010)

- 73.) **Christiane Brohm:** Experimental Virology, TwinCore, Hannover
- 74.) **Barkha Srivastava:** Experimental Mouse Genetics, HZI

"There are no such things as applied sciences, only applications of science."

Louis Pasteur (1822-95)



IRTG 1273 "Strategies of human pathogens to establish acute and chronic infections"

year 2006 (final exams 2010)

Sabine Stegemann: Immunodynamics/Immune regulation, HZI

Sabrina Voedisch: Hannover

Sebastian König: Cellular Proteomics, HZI

Andreas Jeron: Group Immune regulation, HZI

Mathias Müsken: Pathophysiology of bacterial biofilms, Twincore

Kerstin Stegmann: Gastroenterology, MHH

Claudia Dürr: Medical Microbiology, MHH

GRK 1441 "Allergic response in lung and skin"

year 2006 (final exams 2010)

Saskia Knothe: Project Management Therapeutic Cell Initiative Pharma Research and Early Development (pRED), Roche Diagnostics GmbH, Penzberg

Verena Kopfnagel (nee Schäfer): Dermatology, MHH

Carla Winkler: Immunology and Allergology, ITEM

Jana Zeitvogel: Dermatology, MHH

Impressum and contact:

HBRS office, OE 9117

Dr. Susanne Kruse and Marlies Daniel

Carl-Neuberg Str. 1

D-30625 Hannover

Tel. +49-(0)511-532-6011; Fax. -2611

Daniel.marlies@mh-hannover.de



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