



October 10th, 2011

6. Newsletter

Dear HBRs Alumni students,

We proudly present our sixth HBRs Alumni newsletter. Here, we will present last year's developments of Hannover Biomedical Research School (HBRs) as well as those of MHH. We have organized several memorable events like the first summer academy (LISA), the second "career day" with lectures and industry exhibitions as well as the second "Translation Workshop". MHH has introduced the "Voluntary Research Year" (FWJ) for High School graduates from September 2011 as the first university in Germany. 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** ("Molecular Medicine", "Infection Biology" and "Regenerative Sciences") and **two DFG-funded research training groups**, one being a joint European program together with Karolinska Institute, Stockholm. The program "**DEWIN**" (Dynamics of Host-Pathogen Interactions) was established in 2010 within the ZIB (Center of Infection Biology) and is supported within the Georg-Friedrich Lichtenberg program of Lower Saxony. 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".

Currently, the various programs of HBRs host ~230 PhD students. In addition, 35 medical students were accepted for StrucMed as well as 60 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).

1st Lower Saxony International Summer Academy (LISA) in Immunology September 2011; TwinCore



News from MHH

MHH departments together with TwinCore, HZI in Braunschweig and TiHo are going to participate in two new German-wide Research Centres, the DZIF (German Centre for Infection Research) and the DZL (German Centre for Lung Research). BMBF is supporting each with 40 Mill. Euro per year.

Prof. Dr. Christoph Klein (Pediatric Hematology & Oncology) left MHH for a position as Director of Pediatrics and Policlinics of the Dr. von Haunerschen Kinderspital of University Hospital Munich.

Prof. Dr. Nisar Malek was appointed Director of Internal Medicine I (Gastroenterology, Hepatology, Infectious Diseases), University Hospital of Tübingen.

The research labs of the Dermatology department finally moved to MHH in 2011. The clinical ward will follow soon.

The new Pediatric Research Centre was inaugurated in June 2011. About 250 scientists are working there now.

Voluntary Research Year (FWJ)

MHH was the first university in Germany to initiate the voluntary research year (FWJ). From September 2011 on, 56 selected High School Graduates work in MHH laboratories and partner institutes (University of Hannover, TiHo, HZI) for one year. The aim is to motivate them towards a further study and career in Science. The media coverage was overwhelming, and we received more than 200 applications from all over Germany. We are very excited to see what these young people will achieve (see *next issue*). In addition to research experience in the labs, they are attending seminars and workshops. And they, of course, all receive some small pocket money.



On the first day, the minister of Science and Culture of Lower Saxony Prof. Dr. Johanna Wanka, congratulated all participants and announced: "FWJ is a wonderful model for whole Germany".

Voluntary Research Year (FWJ) **September 2011; 55 young people were selected**



Celebration of 10 years structured doctoral education

Our PhD program "Molecular Medicine" started in October 2000. We celebrated the 10th anniversary on October 24th/ 25th 2010. A lot of current students, Alumni and faculty joined us.

The festivities all started with an Alumni reunion on Sunday evening, followed by the HBRS scientific symposium on Monday as well as the festive ceremony in the evening. In addition, Alumni students talked about their current careers, and we received a lot of input by our international advisory board members. We were happy that so many of you came to Hannover and that so many guests and friends followed our invitation. On this occasion, we also published the "HBRS Anniversary Report", describing the history, current situation as well as participating departments and institutes. Please have a look on <http://www.mh-hannover.de/21219.html>.

1st Lower Saxony International Summer Academy in Immunology (LISA)

In September, Prof. Dr. Tim Sparwasser (TwinCore) and HBRS office organized the first Lower Saxony International Summer Academy (LISA) in Immunology (Inflammation, Regeneration and Immunity). About 40 students were selected to attend one week of intensive lectures and workshops followed by one (optionally 2 or 3) weeks of lab rotations and demonstration of instruments. Faculty was recruited from MHH, HZI as well as ITEM. In addition, outstanding international key lecturers like T. Geijtenbeek, Y. Chien, F. Powrie, V. Julia, B. Reizis and V. Kuchroo discussed with LISA students. And also, social activities like guided tour through Hannover city, BBQ, boat trip, firework, GOP theatre were organized.

The academy was kindly supported by DAAD as well as several Biotech companies.

The feedback was excellent. Therefore, we are already planning LISA September 2012.

2nd Translation Workshop

On June 7th, the second Translation Workshop "Corporate research and drug development" took place. Representatives of Roche Pharma AG, Paul Ehrlich Institute Langen, Vakzine Project management GMBH and Bfarm Bonn talked gave key lectures. A lot of our HBRS attended, and we had lively discussions.

"The best way to have a good idea is to have a lot of ideas..."

Linus Pauling (1901-1994)

2nd Career day

In 2009 HBRS started its new initiative "Career perspectives and development". The initiative is kindly supported by means of the EU (EFRE) with ~100,000 Euro (till 2012).

On March 18th, the second career day was held. Representatives of a variety of different professions reported about their career tracks and experiences, and informed students about employment possibilities after the PhD.

Applications

In 2011, we received **787 applications** for our three PhD programs. We selected 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

Orientation weeks

October 2010; in Hannover (town center)





Fritz Hartmann Lecture

Opening of study year, Oktober 2010;
Fritz Melchers; Max Planck Institute, Berlin



DEWIN Summer School in Potsdam, July 2011

The PhD program “Dynamics of Host-Pathogen Interactions, DEWIN”, funded by the Lichtenberg-Program of the Volkswagen-Foundation, started in October 2010. Among many other activities, a Summer School has been organized by Simone Zimmer, Dr. Sabine Johann and Prof. Reinhold Förster that took place from July 7th to July 9th, 2011 in beautiful Potsdam just outside the gates of Berlin.

Internationally outstanding scientists were invited who gave lectures and discussed posters prepared by the students. Among the speakers attending the Summer School were Prof. Dr. **Mary Jo Wick** from Göteborg University, who held a talk on “Antigen presenting cells and immunity to Salmonella”; Prof. Dr. **Ulrich Koszinowski**, LMU Munich, giving a lecture on “Host invasion by a virus: resolution at the cell type level”, and Prof. Dr. **Kai Matuschewski** from the Max Planck Institute for Infection Biology, Berlin, speaking about “Malaria and the liver silence as a sign of danger”. Further scientists giving lectures were Prof. Dr. **Veit Hornung**, University of Bonn, with a talk about “Molecular mechanisms of inflammasome activation”, Prof. Dr. **Wolf-Dietrich Hardt**, ETH Zurich, speaking about “Salmonella diarrhea: analyzing disease mechanisms in vivo”, Prof. Dr. **Manfred Kopf**, ETH Zurich, with a lecture on “Cytokines in the regulation of T cell fate and function with a focus on IL-21” and Prof. Dr. **Thomas Mettenleiter**, Friedrich-Loeffler-Institut, speaking on “Herpes forever: Molecular Analysis of Herpesvirus-Host Interactions”.

The Summer School was characterised by highly interesting lectures, lively discussions and poster sessions organised by the students. The scientific program was surrounded by leisure activities such as a guided tour of Potsdam city centre and a dinner in the historical Dutch quarter.

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.

Unraveling the role of microRNAs in myelopoiesis



*by Ewa Surdziel-Cabanska, Poland
PhD Regenerative Sciences, final exam January 2011; currently in Presidential Postdoctoral Fellowship Program at Novartis Institute for Biomedical Research and Friedrich Miescher Institute Basel, CH*

Characterization of genes controlling the timing of larval development in worm *Caenorhabditis elegans* revealed an existence of two small regulatory RNAs, known as *lin-4* and *let-7*. Soon thereafter, *lin-4* and *let-7* RNAs were reported as a part of a very populous class of small, endogenous and non-coding RNAs found in worms, flies and mammals, known as microRNAs (miRNAs). miRNAs represent an emerging class of single-stranded RNAs that revolutionized our comprehension of gene expression regulation. miRNAs usually exert their regulatory function through the base pairing within the 3'UTR region of target mRNA, thus leading to the reduced translation and/or increased degradation. Given that miRNA:mRNA interaction does not need a perfect complementarity, a single miRNA has the potential to target mRNAs of hundreds of distinct genes. Hence, miRNAs are predicted to control the expression of ~30% of all protein-coding genes.

Therefore, it is not surprising that miRNAs participate in the regulation of almost every cellular process and aberrant miRNA expression patterns are associated with many human diseases. Despite great advances, the miRNA world remains largely uncharted with regard to the physiological function of these small molecules within cells and organisms.

From the initial reports describing miRNA expression patterns in the hematopoietic system it became evident that miRNAs may play a role in the regulation of myelopoiesis. However, miRNA-induced phenotypes and more importantly underlying molecular mechanisms remain still poorly understood. Therefore, we decided (AG Scherr/Eder; Hematology, Hemostasis, Oncology & Stem Cell Transplantation) to challenge miRNA function during granulocytic differentiation. Granulopoiesis is a stepwise process of granulocyte development from hematopoietic stem cells (HSCs) mainly driven by the granulocyte-colony stimulating factor (G-CSF).

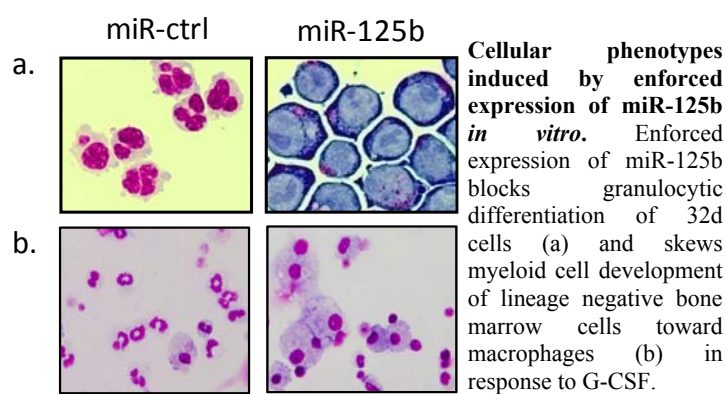


After intensive screen and functional characterization of several miRNAs, we found that enforced expression of miR-125b in myeloid cells leads to distinct phenotypes, including a block of granulocytic differentiation and induction of G-CSF-dependent proliferation of 32d mouse bone marrow cells (Fig. a.). In addition, elevated miR-125b levels conferred a survival advantage under growth inhibitory and apoptotic conditions. Studies using mouse lineage negative bone marrow cells revealed that overexpression of miR-125b skewed myeloid cell development toward macrophages in response to G-CSF *in vitro* (Fig. b.). Based on these findings, we decided to evaluate miR-125b function in more physiological context. Due to collaboration with the group of Dr. Andreas Krueger (Immunology) mouse bone marrow chimeras were generated. We found that sustained expression of miR-125b in hematopoietic compartment resulted in the competitive advantage of myeloid cells *in vivo*. The profound myeloid proliferation may create a microenvironment suitable for cancer formation in a timely-dependent manner. Indeed, independent studies of David Baltimore's group indicated that 20-weeks old miR-125b-overexpressing mice developed myeloproliferative disorder (MPD) that shortly after became lethal for most of the mice expressing the highest levels of miR-125b. The relevance of the miR-125b-induced phenotype in mice is further sustained by the elevated expression of miR-125b seen in human patients with MDS/AML [Bousquet M. et al., *J Exp Med* 2008; 205(11)]. Hence, miR-125b promotes myeloid cell expansion and can initiate pathological processes *in vivo*. To further elucidate the molecular mechanisms triggered by miR-125b, we used several bioinformatics algorithms to identify miR-125b target genes that might functionally contribute to the observed phenotypes.

Using 32d as a model system, we confirmed *Bak1* and, for the first time, identified *Stat3* and *Jun* family members as miR-125b targets. Importantly, the degree of target downregulation imposed by miRNAs tends to be quantitatively modest with a typical degree of protein reduction by less than 50%. Indeed, extensive biochemical characterization demonstrated that miR-125b-induced phenotypes resulted from simultaneous but only mild repression of multiple targets. Based on our observation we proposed the model in which elevated miR-125b levels at an early progenitor stage disrupt G-CSF signaling by targeting G-CSF receptor downstream pathways. We found that enforced expression of miR-125b affects G-CSF-induced Stat3 signaling at multiple levels and that miR-125b-mediated reduction of c-Jun and Jund protein levels may explain reduced DNA-binding and transcriptional

activity of Stat3 in response to G-CSF [Surdziel E. et al., *Blood* 2011;117(16)].

Collectively, our studies provided compelling evidence for the coordinated regulation of several signaling pathways by miR-125b. Since there is an emerging evidence that individual miRNA is a part of a more complex regulatory network involving other miRNAs and transcription factors (TFs) that cooperate to govern myelopoiesis, such dynamic systems require appropriate TFs and miRNA expression levels/kinetics to carefully orchestrate hematopoietic cell development.



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.



Sangeeta Chauhan, India

PhD program "Molecular Medicine"; final exam November 2008; currently IMCB Singapore

Lots of Love from Singapore....

Singapore is one of the most developed countries of the world. It is rightly recognized as Europe of Asia in terms of infrastructure, quality of life, high per capita income, global ethos and serene environment. It is a model of sustainable social and economical development.

Apart from other things Singapore is also recognized for its par excellence research and development in the field of science particularly biomedical sciences. It has two state of the art biomedical research parks: Biopolis and Fusionopolis, which has created a mark for itself among the world scientific fraternity.



After graduation or as one is reaching close to completion of a PhD, the most obvious career move is going for a postdoctoral training. A training, which will not only help in strengthening of scientific skills but will also give an opportunity to enhance leadership skills. After carefully thinking on various aspects I decided to join Prof. Philipp Kaldis group at Institute of Molecular and Cell Biology (IMCB), Singapore. IMCB is a part of Singapore research hub known as A-Star (Agency of Science, technology and research). We are a small group of 10 people that includes Philipp, five Postdocs, two Graduate students and two research officers. Similar to my previous work, I am working on the cell cycle control.

IMCB is located in a state of the art research park: The Biopolis, a biomedical research complex of nine buildings that houses more than 2000 scientists. After coming here I realized that the labs here are sine qua non to any good research institute of the world. The research community here is truly international, bringing with them good set of practices and knowledge.

This cosmopolitan environment makes place all the more interesting. English is the official working language which makes the transition much easier.

In terms of career development there are better prospects for postdocs. Salary and benefits are good. There is career stability as postdocs have an initial contract for three years with a possibility of extension for another three years. As, there are several research institutes nearby it provides ample opportunities for scientific discussions and collaborations

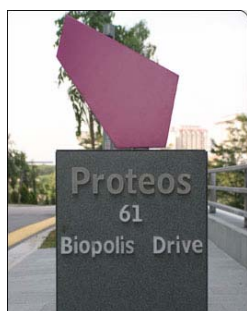
As for life, Singapore is one of the most vibrant and liveable places in the world. Mercer Quality of living global city ranks Singapore as best in Asia for quality of living and best in the world for city infrastructure. Place is bit hot and humid with shower every now and then however, food is absolutely amazing with lots and lots of choices. Moreover, if you are looking for some adventure, scuba diving or just a relaxing day on nice beach with white sand all over then my friend you are at the right place. From Singapore you can visit all nice places like Malaysia, Indonesia, Thailand, Vietnam, Laos, and Cambodia within few hours by boat or flight. So for those who enjoy living and working in a cosmopolitan and fast pace environment, and want to realize their full potential Singapore is a place for you. If you are considering Singapore as your next home you can look for job openings at:

Agency of Science, technology and research AStar:

<http://sg.dimension.jobsdb.com/career/default.asp?AC=ASTAR&EC=001&GC=G1&78943234682083>

Cancer Science Institute (CSI):

<http://www.csi.nus.edu.sg/careers/>



National University Singapore (NUS):

www.dbs.nus.edu.sg/recruitment/index.htm

Nanyang technical University Singapore (NTU):

www.sbs.ntu.edu.sg/Research/Pages/Research.aspx

Another useful site www.biomed-singapore.com/ It provides all the information required to find a science job in Singapore. Beside academia, there are several high profile companies, Novartis, GlaxoSmithKline, Aventis etc. In case, you want some help, advice or information you can reach me at: sangeetac@imcb.a-star.edu.sg or sangeeta.chauhan@gmail.com

Final exams

In November 2010 and June 2011, seventeen students of the PhD program "Molecular Medicine" successfully passed their final exams (Hengameh Abdollahpour, Rakesh Kumar Bakshi, V. Hari Balaji, Vijay K. Chennupati, Katja Crull nee Kochrube, Kshama Gupta, Usriansyah Hadis, Dirk Heckl, Niels Heinz, Sadaf Kasraie, Wolfgang Koestner, Jan Larmann, Harald Schütt, Ratnesh K. Srivastav, Theodros S. Tsegaye, Kristina Wiege, Xiangyue Zhang). The next exams are expected for November 11th.

Award of HBRS PhD prize

Oct. 2010; Colin Davenport, EGRK "Pseudomonas"



The final exams in the PhD program "Infection Biology" took place on January 21st, 2011 (Paulina Blazejewska, Ines Hahn, Antje Ksienzyk, Zofia Magnowska, Imke Steffen, Jörg Willenborg) followed by the next ones on July 1st, 2011 (Wiebke Jäger nee Albrecht, Constantin Bode, Imke Bargen, Tamas Dolowschiak, Henriette Langhans, Anja Marquardt, Julia Schneider, Evgenyia Scheibe nee Solodova, Benjamin Wahl). The next final exams are scheduled for January 20th, 2012.

"Every experiment proves something. If it doesn't prove what you wanted it to prove, it proves something else..."

Unknown Source



Award of HIRSIB PhD Prizes

Jan. 2011; PhD Infection Biology, Jörg Willenborg



July 2011; PhD Infection Biology, Tamas Dolowschiak



On January 28th, 2011, the first final exams in the PhD program “Regenerative Sciences” were conducted. The program had started in October 2007. The finalists were: Ewa Surdziel-Cabanska née Surdziel, Christine Walter née Völkel, Dr. Milada Butueva and Ina Rittelmeyer. A festive ceremony followed the exams. The next exams followed in June 2011: Vivek Vikram Singh, Namita Saran, Mareike Derks, Milada Butueva, Kathrin Wolf, Michael Rothe

First final exams in PhD program “Regenerative Sciences”

Jan. 2011; Surdziel, Walter, Butueva, Rittelmeyer



“The formulation of a problem is often more essential than its solution, which may be merely a matter of mathematical or experimental skill.”

Albert Einstein (1879-1955)

Announcements

Marriages: Many of our students have married recently. We know of Nonsikelelo Mpofu & Tobias Mätzig, Arpita Baisantry, Rakesh Bakshi, Maria Gschwandtner & Luis Miguel Guachalla, Frank Traub, Ewa Surdziel. *Congratulations!!*

Children ☺: There are new “HBRS babies” by Kristina Wiege, Radiana Antarianto, Frank Traub, Ulfert Rand, Sirine el Houry-Mignan, Susanne Lerch. *Congratulations!!*



Prizes

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

Wolfgang Köstner (Molecular Medicine, exam November 2010) received the Chugai Award 2011 of SFB (5000,- Euro).

Christian Bernreuther (Molecular Medicine, exam November 2004) received the Dr. Martini-Prize 2011 of University Hospital Hamburg (4000,- Euro).

Christina Nasenstein (Molecular Medicine, exam November 2011) was awarded the Behring-Röntgen Prize 2011 of Giessen (5000,- Euro).

Colin Davenport (EGRK “Pseudomonas”, exam November 2009) received the HBRS PhD prize 2010 (1.000,- Euro).

Jörg Willenborg and Tamas Dolowschiak (PhD Infection Biology, exams January and July 2011) received the HIRSIB prize by ZIB (1.000,- Euro).

Imke Steffen (PhD Infection Biology, exam January 2011) received the Wilhelm Hirte PhD Prize by ZIB (1.000,- Euro).

Benjamin Wahl (PhD Infection Biology, exam July 2011) received the BD Biosciences PhD Prize by ZIB (1.000,- Euro).

Maria Gschwandtner (PhD Molecular Medicine, exam November 2009) received a position in the prestigious “Hertha Firnberg” program of Austria. During her Postdoc at Dermatology, Medical University of Vienna, she will be supported and trained for a further career in academia.



Current list of HBRS Alumni students

Award of Wilhelm Hirte PhD Prize

January 2011; PhD Infection Biology, Imke Steffen



Award of BD Biosciences PhD Prize

July 2011; PhD Infection Biology, Benjamin Wahl



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:** Imperial College London, UK; 2010 Pediatric Pneumology, MHH; from 2011 Singapore Immunology Network, Immunos, Biopolis
- 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, "Facharzt"
- 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; Memorial Sloan Kettering Cancer Center, New York City, USA 2009-2010; Visceral Surgery Regensburg, "Oberarzt" ("Habilitation", senior physician)
- 14.) **Meta Djojosebroto:** Gene Therapy & Stem Cell Biology, Jules Gonin Eye Hospital, Lausanne, Switzerland
- 15.) **Julia Freise:** from 2006 Pneumology, MHH

What is....doing?

Dorothea (Dorrit) Dijkstra, PhD Molecular Medicine 2003:

After a short excursion to GMP she is back into basic clinical science! She works now at Pediatric Pneumology, MHH. The best thing about her work is that it is (and has always been) closely related to human diseases and therapeutical approaches. At the moment she works with (human adult and cord blood) B cells and continues to work with her favourite cells: basophils. She cooperates with Dr. Meyer-Bahlburg and their experiences with human B cells and basophils are combined in a project. At the moment she is busy applying for grants to start her own project and, hopefully, her own little group.

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



Alumni

- 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; from 2011 New York, USA
- 32.) Gesa Meyer:** Lohmann Animal Health GmbH, Cuxhaven
- 33.) Anika Hoffmann (Meyerholz):** Paediatric Pneumology, MHH; 2010 babypause
- 34.) Christina Nassenstein:** 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; from 2011 Cardiology Subspecialty Fellowship, University of Louisville, Kentucky, 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; from 2011 Sarkom-Center Berlin-Brandenburg, associated with Max-Delbrück Center Berlin
- 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; from July 2010: babypause
- 43.) Anuhar Chaturvedi:** Lund, Sweden, from 2007 Haematology & Oncology, Marburg, Germany; from 2009 Haematology & Oncology, MHH
- 44.) Dorothea Dijkstra:** from 2008 Fraunhofer Institute ITEM Hannover, from 2011 Pediatric Pneumology, MHH
- 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; from 2011 Heisenberg professor



Alumni

50.) Kumaravelu Jagavelu: Mayo Clinic, GI Research unit, Rochester MN, USA; from 2011 faculty position, Central Drug Research Institute, Lucknow, India

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 Doxsey 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; from 2011 Neurology MHH

62.) Kursheed Iqbal: FAL Mariensee; Beckman Research Institute (City of Hope), Los Angeles, USA.

63.) Joanna Jagielska: REBIRTH MHH

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

65.) Gamze Kabalak: worked in UK for big pharmacy group; now Hexal/ Sandoz in Magdeburg

66.) Nonsikelelo Mpofo: Gastroenterology, MHH

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

68.) Erkhembulgan Purevdorj: Senior Lecturer of Genetics, Health Science University, Mongolia; from 2011 Deputy Director in charge of Research, Foreign Relations and Training at the National Center for Maternal and Child Health of Mongolia

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

70.) Jessica Schwermann: Physiological Chemistry, MHH; from 2011 Application Scientist, Protagen AG, Dortmund

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 Ünal: Paediatric Haematology & Oncology, MHH; 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; India

80.) Luis Miguel Guachalla: University of Ulm; from 2011 Research Center for Molecular Medicine, Austrian Academy of Science, Vienna

81.) Lydia Asrat Haile: National Cancer Institute, NIH, Bethesda, USA

82.) Harshvardhan: University of Ulm; from 2011 Postdoc UK

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: Center for Innovation concepts (ZIK), Septomics, University Hospital, Jena

85.) Amrita Rai: Biophysical Chemistry MHH

86.) Mathias Rhein: Core facility "Cell sorting" MHH; from 2011 Clinical Psychiatry MHH

87.) Reena Singh: Victor Chang Cardiac Research Institute, Darlinghurst/ Sydney, Australia

88.) Inga Sörensen: Nephrology MHH

89.) Ratnesh K. Srivastav: Biophysical Chemistry, University of Frankfurt, Germany

90.) Ujala Srivastava: University of Ulm; from 2010 Jackson Lab, Main/USA

91.) Kathrin Steinwede: Experimental Pneumology MHH

92.) Shahzad Nawaz Syed: Lab of Prof. Mack, Innere Medizin II Nephrology/Research, University Hospital Regensburg, Germany

93.) Dong Wang: Dermatology MHH; University of Vienna, Austria

94.) Alexander Wolf: Institute of Pharmacology, University of Giessen, Germany



95.) Katja Zscheppang: Paediatrics MHH

year 2006 (final exams 2009/2010)

96.) Hengameh Abdollahpour: Pediatrics MHH

97.) **Arpita Baisantry:** University of Ulm; from 2010 India

98.) V. Hari Balaji: Postdoc

99.) **Maria Gschwandtner:** Dermatology, Medical University of Vienna, Austria

100.) Kshama Gupta: Postdoc

101.) **Dhivya Haridass:** Munich, Germany

102.) **Niels Heinz:** Experimental Hematology MHH

103.) **Wolfgang Koestner:** Pediatric Hematology and Oncology MHH

104.) **Tobias Mätzig:** Experimental Hematology and Oncology, MHH

105.) **Manoj B Menon:** Physiological Chemistry MHH

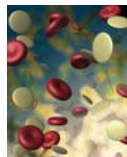
106.) **Natalie Naue:** Biophysical Chemistry MHH

107.) **Nidhi Narain:** New Delhi, India

108.) **Wilhelm Walter:** Max-Planck Institute Dresden

109.) **Xiangyue Zhang:**

110.) **Kristina Wiege:** Clinic for Immunology and Rheumatology MHH



year 2007 (final exams 2010/2011)

111.) **Rakesh Kumar Bakshi:** University of Alabama, Birmingham, United States

112.) **Vijaya K. Chennupati:** Postdoc?

113.) **Sadaf Kasraie:** Postdoc, Global Preclinical R & D, Global Drug Discovery, Molecular Pharmacology, Grünenthal Pharma GmbH, Aachen, Germany.

114.) **Katja Crull (Kochrube):** Gene Regulation and Differentiation, HZI

115.) **Jan Larmann:** Anesthesiology MHH

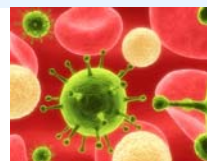
116.) **Harald Schütt:** Cardiology MHH

117.) **Theodros Solomon Tsegaye:** Center for Disease Control and Prevention (CDC), Atlanta, USA

118.) **Usriansyah:** Immunology MHH

year 2008 (final exams 2011/2012)

119.) **Dirk Heckl:** Harvard Medical School, USA



PhD program "Infection Biology"

year 2003 (final exams 2006/2007/2008)

1.) **Simon Berberich:** CRS Mannheim

2.) **Tanja Bosse:** Evotec AG, Research Scientist

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:** 04/07-09/08: Medical Science Liaison, Immunology, Essex Pharma, Muenchen

09/08-06/11: Medical & Scientific Liaison, Immunology, Merck Canada (previously Schering-Plough Canada)

08/11-12/13: MBA student at Sauder School of Business, University of British Columbia, Vancouver, Canada

6.) **Susanne Lerch:** Jun07-Dec08 ICON Clinical Research GmbH, Langen, Germany, Jan09-Jun11 ICON Clinical Research Plc, Marlow UK; Jul10-Jun11 maternity leave; from July11: Senior Clinical Research Associate, ICON Clinical Research GmbH, Langen,

7.) **Petra Luthje:** 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 parental leave

12.) **Sebastian Seth:** Immunology, MHH, from July 2011 Merck Millipore

13.) **Jessica Thalmann:** Nephrology, MHH

14.) **Kristina Theusner:** 04/2007 -12/2008, Cell Biology Unit, MRC Laboratory for Molecular Cell Biology, University College London; from 01/2009, Account Manager Meditech Media in London

15.) **Angelika Hafke/ née Waltermann:** University of Göttingen, Medicine, Central Laboratory

16.) **Claudia Welz:** Parasitology, TiHo, Hannover

17.) **Ulrike Wittkopp:** Hannover Clinical Trial Center GmbH, Clinical project manager

18.) **Tim Worbs:** Immunology, MHH; studying human medicine at MHH



Alumni

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 Postdoc at EPFL Lausanne
- 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 KGaA, Darmstadt; Merck-Millipore, Processing Technologies - Upstream & Monitoring Technologies
- 26.) **Marcin Lyszkiewicz:** Postdoc at 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:** Braunschweig
- 32.) **Sven-Christian Sensken:** Abbott GmbH, Hannover
- 33.) **Nuno Viegas:**
- 34.) **Stefanie Weiß:** Wolfson Institute of Biomedical Research, University College London, UK
- 35.) **Caroline Zaoui:** Microbiology, Greenloop, Brussels, Belgium
- 36.) **Beata Zygmunt:**

year 2005 (final exams 2009, 2010)

- 37.) **Nadja Bakocevic:** Singapore
- 38.) **Sara Bartels (Leschner):** Molecular Immunology, HZI
- 39.) **Nupur Bhatnagar:** Clinic for Immunology and Rheumatology, MHH
- 40.) **Mandy Glaß:** MRC Unit Virology, University of Glasgow, UK
- 41.) **Lydia Janus:** Central Animal Laboratory, MHH
- 42.) **Jessica Janus:** Department of Infectious Diseases, Virology; University Hospital Heidelberg
- 43.) **Vanessa Jensen:** Cell Biology, TwinCore
- 44.) **Anna Leybo:** Hannover

- 45.) **Julia Micklinghoff:** Medical Microbiology MHH; action medeor e.V. Deutsches Medikamenten-Hilfswerk, Tönisvorst, Germany
- 46.) **Claudia Moccia:** RKI Berlin, Zoonosis
- 47.) **Florence Njau:** Nephrology, MHH
- 48.) **Stefan Pachnicke:** Bayer Vital GmbH, Tiergesundheits, Leverkusen
- 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; from 2011 parental leave
- 53.) **Swati Shukla:** Postdoc at Lund University hospital, Sweden
- 54.) **Malgorzata Szczodrak:** CRA at Noblewell Inc., Warsaw, Poland
- 55.) **Halina Tegetmeyer:** Microbial Fitness, Max Planck Institute for Marine Microbiology, Bremen, now Center for Biotechnology, Bielefeld
- 56.) **Milena Tosiek:** Institute Pasteur, Paris, France
- 57.) **Sarvari Velaga:** Haematology&Oncology, MHH
- 58.) **Tetyana Yevsa:** Chronic Infection & Cancer, HZI

year 2006 (final exams 2010)

- 59.) **Nicole Dietrich:** ALLStil Studien GmbH, Frankfurt (Clinical Trial Assistant).
- 60.) **Sirine El Houry Mignan:** Zürich, Switzerland;
- 61.) **Swantje Hammerschmidt:** Immunology, MHH
- 62.) **Jan Hänisch:** Postdoc at Institute Pasteur, Paris, France
- 63.) **Anika Hävemeier:** Virology, MHH
- 64.) **Sonja Horatzek:** Julius Kühn Institut, Braunschweig
- 65.) **Florian Klauschies:** Thermo Fisher Scientific, Freiburg, Germany
- 66.) **Rajesh Kolli:** Postdoc at dpt. of Chemistry and Biochemistry, University of Wisconsin, USA
- 67.) **Manju Nagarajan:** Postdoc at dept. of Experimental Surgery, University of Regensburg
- 68.) **Miriam Nörder:** HCTC Hannover
- 69.) **Ulfert Rand:** Postdoc at DKFZ, group of Prof. Höfer, Heidelberg
- 70.) **Anchana Rathinasamy:** India
- 71.) **Fabienne Rehren:** Drug safety officer at clinical research organisation, Berlin
- 72.) **Rachel Thomas:** Senior consultant at Centre for Molecular Medicine Norway (NCMM)



year 2007 (final exams 2010, 2011)

- 73.) **Imke Bargaen:** Molecular Immunology, HZI
- 74.) **Paulina Blazejwska:** Vaccinology, HZI
- 75.) **Christiane Brohm:** Clinical project manager at Vakzine Projekt Management GmbH, Hannover
- 76.) **Tamas Dolowschiak:** Microbiology, MHH
- 77.) **Ines Hahn:** Experimental Pneumology, MHH
- 78.) **Wiebke Jäger (nee Albrecht):** Virology, MHH
- 79.) **Anja Marquart:** GE Healthcare, Dassel
- 80.) **Julia Schneider:** Biophysical Chemistry, MHH
- 81.) **Evgenyia Scheibe (Solodova):** Postdoc "Viral Immune Modulation" at HZI (group of Dr. Brinkmann)
- 82.) **Barkha Srivastava:** Comprehensive Pneumology Centre (CPC), Inst. of Lung Biology and Disease (iLBD), Helmholtz Zentrum Munich
- 83.) **Imke Steffen:** Blood Systems Research Institute, San Francisco, CA, USA
- 84.) **Benjamin Wahl:** Postdoc Immunology, MHH
- 85.) **Jörg Willenborg:** Postdoc at Microbiology, TiHo

year 2008 (final exams 2011)

- 86.) **Constantin Bode:** Molecular Cancer Research Centre, Charite, Berlin
- 87.) **Antje Ksientsyk:** Molecular Biotechnology, HZI

PhD Program "Regenerative Sciences"

Year 2007 (final exams 2010)

- 1.) **Lacramioara Botezatu:** Postdoc
- 2.) **Milada Butueva:** ass. physician, Städtisches Klinikum Magdeburg & Inflammation and Immunity, HZI
- 3.) **Mareike Derks:** ORPHANET Germany, Institute of Human Genetics, MHH
- 4.) **Ina Rittelmeyer:** Department of Gastroenterology, Hepatology and Endocrinology, MHH
- 5.) **Namita Saran:** London, UK, Postdoc
- 6.) **Vivek Vikram Singh:** Microbiology & Immunology, Chicago Medical School (RFUMS), Chicago, USA
- 7.) **Ewa Surdziel-Cabanska, née Surdziel:** November 2011, Presidential Postdoctoral Fellowship Program, Novartis Institutes for BioMedical Research (NIBR) and Friedrich Miescher Institute (FMI), Novartis Pharma (Basel, Switzerland)
- 8.) **Christine Walter née Völkel:** registrationmanager, BELCHIM Crop Protection, Burgdorf
- 9.) **Kathrin Wolf:** Inflammation and Immunity, HZI

Year 2008 (final exams 2010)

- 10.) **Michael Rothe:** Experimental Hematology, MHH

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

year 2006 (final exams 2010/2011)

- 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:** London School of Hygiene, UK
- Claudia Dürr:** McGill University, Montreal, Canada
- Katrin Janik:** Karolinska Institut, Stockholm, Sweden
- Peggy Riese:** Vaccine Research, HZI
- Sarah Horst:** Infection Immunology, HZI
- Nina Coombs:** Medical Microbiology and Hospital Epidemiology, MHH
- Dorothea Bankwitz:** Experimental Virology, TwinCore

GRK 1441 "Allergic response in lung and skin"

year 2006 (final exams 2010/2011)

- 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
- Carolin Pilzner:** Hannover

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