



October 13th, 2014

9. Newsletter

Dear HBRs Alumni students,

We proudly present our ninth HBRs Alumni newsletter. Here, we will report last year's developments of Hannover Biomedical Research School (HBRs) as well as those of MHH. We have organized several memorable events like the Master Class "Imaging and Animal Models" as well as the second weekend workshop in Berlin. Currently, a lot of building activities are going on at MHH and new professors have been appointed. 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 **five** international PhD programs ("Molecular Medicine", "Infection Biology", "Regenerative Sciences", "Auditory Sciences" and "Epidemiology"), one **DFG-funded research training group**, being a joint European program together with Karolinska Institute, Stockholm., and a Marie Curie Initial Training Network in the field of tissue engineering "TECAS". The program "**DEWIN**" (Dynamics of Host-Pathogen Interactions) was established in 2010 within the 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.), as well as two HBRs-associated Master programs "Biomedicine" and "Biochemistry".

Currently, the various programs of HBRs host ~280 PhD students. In addition, 45 medical students were accepted for StrucMed as well as 60 new Master students (in two programs) this year. Of the PhD students, about 60% are international and around 20% have a medical background. About 50% are women.

Excursion to Celle, October 2013



Master Class 2013

The Master class "Imaging and animal models" took place on November 14th/15th, 2013. HBRs invited Anna Ceresoto (Centre of Integrative Biology, CIBIO, Molecular Virology, University of Trento, Italy) who gave an overview of imaging HIV-infected cells. Then Michael Sixt (Institute of Science and Technology Austria (IST), Klosterneuburg, Austria) talked about glycosylation-mediated regulation of chemokine signalling. He is a great expert in this field. The third speaker was Bernhard Nieswandt (Rudolf Virchow Centre/ Experimental Biomedicine, University of Würzburg) presented his work on platelet activation in imaging of thrombosis and stroke. In summary, the three talks added up very well and gave a broad overview of the current knowledge and main research directions in the imaging and animal model field. The same afternoon and the next day, seminar sessions took place where HBRs-students could present their own projects and discuss them with the invited scientists. An informal get-together at top floor of the HBRs building concluded the first day. In the end, everybody was thrilled by this exciting meeting!

New assistant in HBRs office



Mrs Birgit Mueller is the new part-time assistant in HBRs office from September 2014. She will help Susanne Kruse in all matters concerning HBRs and the PhD program Molecular Medicine.



2nd Weekend workshop in Berlin

The DAAD kindly supported a weekend workshop for specialists from third world countries (to prevent crisis and conflicts) on the topic "Understanding the Germans – Intercultural aspects". Therefore, 20 HBRS students travelled to Berlin from April 11th-13th, 2014. Students were coming from Belarus, Brazil, China, Ethiopia, India, Iran, Nigeria, Russia, Singapore, Ukraine, and Germany. In the mornings, the trainer Grit Kümmele discussed various aspects on integration into the German thinking and way of life as well as conflict management. The cultural program on afternoons and evenings included a guided bus tour, visit to the *Deutscher Bundestag*, the *Brandenburger Tor*, the Holocaust memorial, as well as the Jewish museum. All Students said that they now understood more of the German history and culture, and even would like to learn more. The weekend was a great success. The workshop will certainly be repeated.



News from MHH

The Centre for Biomedicine Technique, Implant Research and Development (NIFE) has been just celebrated with a topping out ceremony. It is erected close to MHH campus. Lower Saxony, the German Federal estate as well as Braukmann Wittenberg Stiftung support the building with 61 million Euros.

The "Friends of MHH" celebrated their 50th anniversary on May 2014. They are supporting many research projects with around 1.2 million Euros per year.

DFG is supporting MHH with 1.3 million Euro to buy two new laser microscopes for its Core facility.

MHH scientists and two companies receive 1.4 million Euro by the BMBF (Federal Ministry of Education and Research) to buy a new computer program for the analysis of cancer (diagnosis and therapy).

The SFB 900 "Chronic Infection" will be supported by the DFG with 12.5 million Euros for another 4 years.

News from professors and supervisors:

- **Emanuelle Charpentier** (HZI Braunschweig/MHH) received the Alexander von Humboldt professorship. This includes 5 Million Euro for 5 years. She is especially interested in the CRISPR-Cas system of bacteria, which provides a defence against pathogens, but can also be possibly used for human gene therapy.
- **Christine Goffinet** (former University of Ulm) joint the Institute of Experimental Virology at TWINCORE as Junior professor (W1) for Cell Biology of RNA-viral Infections
- **Andreas Tiede** (HBRS Alumni) is now W2 professor for Hemostaseology at MHH
- **Dagmar Wirth** (HZI) was appointed W2-professor for Synthetic Biology of Cell Systems
- **Kyeong-Hee Lee** (former Forschungszentrum Borstel), is now W2 professor for Clinical Chemistry and Inflammation Research
- **Abel Viejo-Borbolla** (former Centro de Biología Molecular Severo Ochoa, Madrid) was appointed Junior professor (W1) for Experimental Virology
- **Gregor Theilmeier** (former Anaesthesiology) already started his new job as Dean of the Medical Faculty of University of Oldenburg
- **Julia Skokowa** (HBRS Alumna, former Molecular Hematopoiesis) was appointed W3 professor for Translational Oncology, Innere Medizin II, University Hospital Tübingen
- **Oliver Pabst** (former Immunology) is now Director of the Institute of Molecular Medicine at University Hospital of Aachen.
- **Mathias Hornef** (former Microbiology) was promoted Director of the Institute of Medical Microbiology at University Hospital of Aachen

Orientation weeks

October 2013; in Hannover (town hall)





LISA IV

At Twincore, September 2014



4th Lower Saxony International Summer Academy in Immunology (LISA)

Prof. Dr. Tim Sparwasser, Wiebke Ginter (TwinCore), and the HBRS office organized the fourth Lower Saxony International Summer Academy (LISA) in Immunology (Inflammation, Regeneration and Immunity) in September 2014. About 35 students from 31 different countries 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, TwinCore as well as ITEM. In addition, outstanding international key lecturers like Olivier Neyrolles, Marc Dalod, William Agace, Justine Mintern and Jose A. Villadangos discussed with LISA students. And also, social activities like a guided tour through Hannover city, BBQ, firework, GOP theatre were organized. The academy was kindly supported by DAAD, EFIS, REBIRTH as well as several Biotech companies. The feedback was excellent. Therefore, we are already planning LISA in August/ September 2015.

5th Career day

On March 21st, the fifth career day took place. Representatives of a variety of different professions reported about their career tracks and experiences, and informed students about employment possibilities beyond PhD. This year again, we especially invited a couple of Alumni students.

Applications

In 2014, we received **910 applications** for our three PhD programs. We selected 50 new students among the highly qualified candidates, e.g. altogether ~150 interviews were conducted in Hannover and India. Applications are received online on www.hbrs-application.de



Fritz Hartmann Lecture

Opening of study year, October 2013;

Seppo Meri Professor of Immunology, Haartman Institute, University of Helsinki, Finland



Lindau 2014: Meeting Nobel Laureates



*by Stephan Halle, Germany
PhD Infection Biology, final exam
July 2012; currently Postdoc at
Institute of Immunology, MHH*

The Lindau Nobel Laureate meeting is probably one of the most exciting conferences for researchers in medical or basic life sciences. Why?

First of all, the speaker panel consists entirely of awardees of the Nobel Prize in Physiology or Medicine. During the conference, they will familiarize you with their views and achievements which in many cases are the results of decade-long and successful research careers. These lectures are excellent, matched only by the best keynote addresses you will find in ordinary conferences. And there are not just a few, but more than thirty such lectures and every invited Nobel laureate has thirty minutes to tell you his or her story.

Second, the Lindau meeting provides you with ample opportunity to actually talk to and discuss with Nobel laureates, during the coffee breaks as well as during the smaller seminars in the afternoon sessions. These discussions are much more detailed and personal than workshops in typical research conferences. This experience is greatly facilitated by the informal atmosphere in Lindau, orchestrated very skillfully by the organizers and supported very much by the great venues on the island of Lindau on the shores of Lake Constance, the Swiss Alps always in view.



Third, the audience is quite remarkable. Every individual “young researcher” who was chosen to attend the conference was selected in an international competition. Thus, everybody is highly qualified, motivated and excited to be part of this event.

All in all, if you would like to spend five inspiring days in Bavaria, learn what the winners of recent Nobel prizes have to say, and want to meet your future research colleagues: try to apply to the Lindau meeting. Notably, most participants are recommended by their host university and only relatively few attendees were chosen based on an active individual application. So if you would like to try it, just ask your HBRS supervisor to suggest your name in the next round. With some luck and a strong CV you might join the next Lindau Nobel Laureate Meeting in 2015.

For more detailed information and some videos of selected lectures see: <http://www.lindau-nobel.org/>



Opening ceremony

(<http://www.mediatheque.lindau-nobel.org/pictures/meeting-2014/#/26>)



“Team MHH” at the Bavarian evening: From the left, Christian Schultze-Florey, Juliane Schott, Jelena Skuljec and Stephan Halle; the four young researchers nominated by the MHH for the Lindau Nobel Laureate meeting 2014.

An expert is a man who has made all the mistakes which can be made, in a narrow field”

Niels Bohr (1885-1962)

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.***

The miR-99~125 clusters



*by Stephan Emmrich, Germany
PhD Molecular Medicine, final exam August 2014; currently Postdoc in Pediatric Hematology & Oncology, MHH*

In recent times the central dogma of molecular biology, DNA makes RNA makes Protein, has been challenged by the advent of non-coding RNAs (ncRNAs). Those RNAs exert functions and comprise phenotypes without giving rise to a protein. A subset of ncRNAs is made up of short, highly conserved RNAs, named microRNAs (miRNAs). The processed, mature miRNA guides a protein complex via imperfect complementarity to a target transcript and represses protein translation. The number of miRNA gene families decreases exponentially throughout metazoan evolution from porifera to primates. As the precise control of gene expression is crucial to homeostatic and developmental processes, miRNAs are an elegant and efficient example how evolution hits two problems with the same side: Low energetic effort to create miRNAs yields fine-tuned translation.

Given their fundamental roles throughout eukaryotic gene regulation it comes as no surprise that miRNAs also play pivotal roles during disease, particularly in many human cancers. Ambros and colleagues discovered the first miRNA in *C. elegans*, lin-4, which is the ortholog of miR-125 in humans. This miRNA acts as an oncogene in various human tumors, and besides is a well described driver of myeloid and B-lymphoid leukemias. The second discovered miRNA, let-7, however is a bona fide tumor suppressor and alone can promote differentiation and ageing of stem cells. Probably the most ancient miRNA throughout bilaterian evolution, miR-99 is predominantly recognized as an antitumorigenic miRNA. Intriguingly, all three genes co-localize to three miR-99~125 miRNA clusters in the human genome.



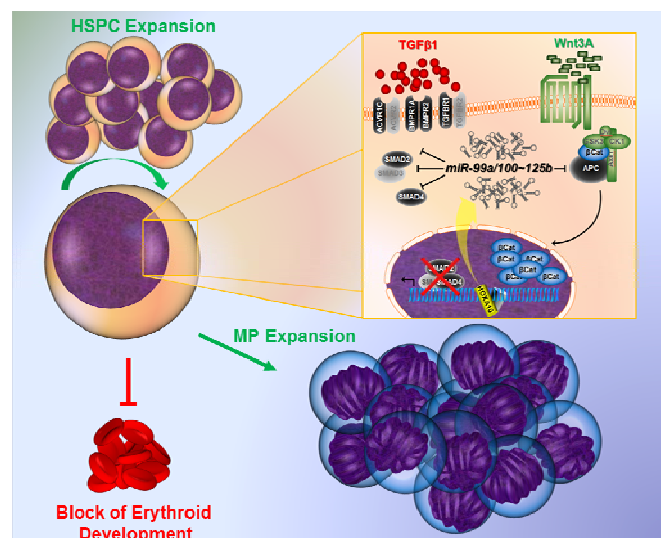
During my PhD studies, I investigated the role of miR-99~125 cluster miRNAs in hematopoietic stem and progenitor cells (HSPCs). Throughout cells of the hematopoietic hierarchy I found the miR-99~125 cluster miRNAs with a high expression in hematopoietic stem cells (HSCs), proliferating erythroid progenitors and CD4 T-cells. However, in leukemic patient blasts, the cluster miRNAs are strongly upregulated in acute megakaryoblastic leukemia and its pre-stages (Emmrich et al., 2014a). The common expression pattern indicated a common transcription of the miRNAs, and indeed I demonstrated contiguous transcription of the three microRNAs along with their long intervening non-coding RNA (lincRNA) host genes. By mapping the transcription start sites of all three clusters in the human genome I identified HoxA10 as an activating factor in AMKL cells.

Moreover, as also the lincRNA host genes were overexpressed in AMKL cells, I designed and constructed a novel lentiviral vector for ectopic delivery of ncRNAs. With this and the use of short hairpin RNAs (shRNAs) for knock-down studies I revealed that the lincRNA host genes MONC (megakaryocytic oncogenic ncRNA) and MIR100HG act as oncogenes in AMKL cells and perturb differentiation of HSPCs (Emmrich et al., 2014c).

However, when I overexpressed the single miRNAs miR-99a, let-7c or miR-125b-2 in HSPCs, only miR-125b-2 gave a growth advantage, while their combination as a tricistron blocked erythropoiesis and expanded the HSC compartment in transgenic mice. Of note, with the adaption of an elegant fluorescent protein-based cell marking technique I developed a system to quantify the miRNA phenotype as a genetic interaction.

A microRNA confers its effect on the cell via the transcripts which it targets. On RNA and protein level I showed repression of the four receptors ACVR1C, TGFBR1, BMPR1A and BMPR2 as well as SMAD2 and SMAD4 being collectively targeted each by at least two different miRNAs of the miR-99~125 clusters. With this the TGF β pathway responsible for stem cell and erythroid differentiation becomes blocked. In addition, downregulation of APC/APC2 as a negative regulator of Wnt signalling results in elevated stem cell megakaryocytic progenitor proliferation. By designing and constructing a vector for miRNA inhibition I found that blocking miR-99~125 function in AMKL cells renders them sensitive to cytotoxic TGF β . Strikingly, when I combined genetic inhibition of TGF β pathway with enhancement of Wnt signalling, the phenotype resembled closer that from the tricistron as the single genetic modulations did.

Further, pharmacologic double blockade of Wnt and TGF β cascades in AMKL cells had a co-operative effect.



The molecular model of miR-99~125 function in HSPCs. Co-operative targeting of TGF β pathway agonists plus Wnt signalling antagonists switches the balance between these two major cascades in HSPCs. Activated by the leukemogenic transcription factor HoxA10, miR-99/100, let-7 and miR-125b promote sustained expansion of HSPCs and MPs, while blocking erythroid differentiation. The concerted action of miR-99~125 miRNAs contributes to the progression of AMKL.

Based on the molecular model of the tricistrons in HSPCs, our work implicates the miRNA clusters in hematopoietic stem cell maintenance and megakaryoblastic malignancy. Especially in the light of current challenges in the treatment of AMKL therapeutic targeting of miR-99~125 miRNAs constitutes a valuable option.

"All of the top achievers I know are life-long learners: Looking for new skills, insights, and ideas. If they're not learning, they're not growing... not moving toward excellence...."

Denis Waitley 1933-, American Author, Speaker, Trainer, Peak Performance Expert



Alumni

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.



By Tibor Veres, Hungary

PhD program “Molecular Medicine”; final exam November 2008; currently junior group leader at University o, Turku, Finland

Hello from Finland

I had the privilege to do my PhD-studies at the HBRS between 2003 – 2008 and carry out a research project at Fraunhofer ITEM, under the guidance of Prof. Dr. Armin Braun. In Hannover, I learned how to work as a scientist independently right from the beginning and realized how valuable it is to solve scientific problems in my own special way, which also allowed me to develop a very special niche in science and look at problems from a different angle than other colleagues in the field.

After graduating and finishing some ongoing projects in Hannover, I re-located to Turku, Finland, and joined the group of Prof. Sirpa Jalkanen as a post-doctoral researcher. In this group, which belongs to one of the local Centers of Excellence, I was lucky to have my own funding via the Academy of Finland (which is the “Finnish DFG”, one of the main funding bodies) and was able to continue my research on immune cell motility and interactions in allergic inflammation. The laboratory is located at BioCity, which is one of the several research buildings of the main science campus in Turku. The research infrastructure in Turku is excellent, and luckily we have access to the latest generation of various equipment (confocal and two-photon microscopes, multicolor flow cytometers etc.) and great other facilities, really allowing here everyone to do cutting-edge research.



During my post-doc years, I also had the wonderful opportunity to visit for a year the laboratory of Dr. Ronald Germain at the National Institutes of Health in Bethesda, MD. This visit greatly advanced my project and broadened my view on immunology.

Here in Turku, I have recently started my new appointment as a Junior Group Leader and currently I am setting up my own laboratory. As for most scientists at this career stage, it is crucial for me to receive a substantial amount of funding, thus grant writing has become one of my main activities these days. Fortunately, the funding situation for science in Finland is great and there are lots of different funding bodies as well as private foundations.

Life in Finland is fantastic and once you get used to the winter, which is perhaps a bit colder and darker than in Germany, you can really enjoy every moment of it. Turku is one of the oldest cities in Finland (it used to be the capital until 1812) thus has a long history. It attracts a lot of visitors, especially in the summer when a lot of cultural events take place, including the Medieval Market and various music festivals. In 2011, it was the European Capital of Culture, hosting several cultural programs.

In terms of everyday life, what I really appreciate is that health and a healthy lifestyle are very important for Finns, so there are lots of opportunities for both indoor and outdoor sports. Finnish cuisine is excellent – delicious and healthy at the same time. At the research campus, every building has its own small canteen, providing a wide selection of healthy, tasty meals every day.

I live here with my family – we have three small children – and one important reason for settling down in Finland for us was that there are outstanding daycare facilities. It is also well known that education in Finland is excellent.

Finally, one more important component of life quality that I have to mention here is that due to the sparse population, it is rare that you need to stand in a line for too long; also traffic jams are practically unknown in the Turku area.





Alumni

Final exams

In November 2013 and June 2014, twenty three students of the PhD program “**Molecular Medicine**” successfully passed their final exams (Parnian Kalbasi Anaraki, Setareh Banihosseini, Claudia Bang, Rajkumar Bhayadia, Ramachandramouli Budida, Himpriya Chopra, Arpita Chowdhury, Venkateswaran Ganesh, Sebastian Goy, Christine Happel, Olga Klimenkova, I-Na Lu, Dhaarini Murugan, Ruhi Phaltane, Michael Radke, Amit Sharma, Georgios Sogkas, Antoaneta Toncheva, Doan Duy Hai Tran, Ching-Fang Wu, Bi Huei Yang, Haiyang Yun). The next exams are expected for November 21st.

Award of HBRS PhD prize Oct. 2013; Lisa Foehse & Shashi K. Gupta, PhD program “Molecular Medicine”



The final exams in the PhD program “**Infection Biology**” took place on January 25th, 2014 (Marijana Basic, Anusara Daenthanasarnmak, Marius Döring, Henrike Fleige, Kerstin Gnirß, Kirsten Jurrat, Felix Stahl), followed by the next ones on July 11th, 2014 (Rebecca Geyer, Thalea Koithan) and in DEWIN (Patrick Bartholomäus, Friederike Behler-Janbeck, Fiordiligie Casilag, Michael Frahm, Julia Heinrich, Elham Kashani, Jennifer Kleine-Albers, Johannes Schwert, Milas Ugur, Zuobai Wang). The next final exams are scheduled for January 23th, 2015.

Award of Wilhelm Hirte PhD Prize

Jan. and July 2014; PhD Infection Biology/DEWIN,
Felix Stahl and Milas Ugur



Award of PhD Prize

Jan. and July 2014; PhD Infection Biology/DEWIN,
Henrike Fleige and Johannes Schwert



On January 17th, 2014, the final exams in the PhD program “**Regenerative Sciences**” were conducted. The finalists were: Radiana Antarianto, Salma Buddaseth, Kashyap Krishnasamy, Sylvia Merkert, Selina Möbus and Jessica Röbler. The next exams were on July 4th, 2014 by Debanjana Chatterjee, Ulf Diekmann, Anne-Kathrin Dreyer, Sarah Konze, Anastasia Koroleva, Johannes Kühle, Christoph Lipps and Robert Ramm. Next exams are on January 16th, 2015.

The following students of the IRTG 1273 passed their final exams in 2014: Sebastian Lunemann, Pavel Dutow, Chee Han Lim, Saumya Gupta, Andrea Blanka and Eugenia Gripp.

Announcements

Marriages: Many of our students have married recently. We know of Manoj Menom & Sonam Dhamija, Ebru Serinsöz Linke *Congratulations!!*

Children ☺: There are new “HBRS babies” by Wim Walter, Frank Traub, Katja Crull, Anuhar Chaturvedi *Congratulations!!*





Prizes

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

Rakesh Bakshi (Molecular Medicine, exam June 2011) **received** the following awards: 1. Career Enhancement Award from University of Alabama, 2. John F Durant Award for excellence in Research, Comprehensive Cancer Center, Alabama, 3. Certificate of Excellence in research from South-Eastern American conference of Immunology, 4. Outstanding research from a postdoctoral fellow award (for two consecutive years) from Postdoctoral Office UAB. 5. Excellent Research by a Trainee from Federation of Clinical Immunological Societies (FOCIS) Award.

Antoaneta Toncheva (Molecular Medicine, exam July 2014) ERS Grant for Best Abstract in Paediatric Allergy and Asthma 2014 (European Respiratory Society and MEDA Pharma)

Frank Traub (Molecular Medicine, exam November 2005) received a Fellowship Award of the Faculty of Surgery of Toronto on the annual Fellow-Day in July 2014.

What is....doing?

Ankita Minhas, PhD Molecular Medicine, 2007:

Hope you are doing well! I am sending warm greeting from San Diego California. I am happy to share that I now work as a Project Manager II with a global CRO called INC Research LLC. I am very happy with the new career development and moving to the sunny land but definitely miss Germany and my Friends. Thanks for this mini reminder for keeping in touch. Very warm wishes to HBRS. Regards, Ankita.

Haiyang Yun, PhD Molecular Medicine, 2009:

This is Haiyang Yun writing to give you an update of my status after PhD exam in November 8th 2013. Since then till May 2014, I have been working in the same group under the supervision of Dr Heuser for a medical doctor (MD) thesis. The main work has been finished, however, the thesis has to be drafted and submitted on due time. From June 2nd, I am employed as a Research Associate (postdoc position) in a research group of Department of Haematology, Cambridge Institute for Medical Research (CIMR), University of Cambridge in UK. The initial employment term is 2.5 years, with possible extension. As my wife has German nationality, we may consider

to come back to Germany to continue our career in future.

Again I appreciate the generous help and excellent organization work you have offered me in HBRS. It was in Hannover, I met my lovely wife and got married, obtained a fruitful PhD degree and potentially a MD also, followed by a nice academic position. It was remarkably unforgettable period in my life. Best regards, Haiyang

" Truth in science can be defined as the working hypothesis best suited to open the way to the next better one"

Konrad (Zacharias) Lorenz (1903-89) Austrian ethologist. [Nobel prize for medicine, 1973]

Current list of HBRS Alumni students



PhD program "Molecular Medicine"

year 2000 (final exams 2003)

- 1.) **Masoumeh Attaran-Bandarabadi:** Resident doctor, Gastroenterology/Hepatology/Endocrinology, MHH
- 2.) **Yasmin Dulkys:** three children, Hannover; secretary in architectural/engineering company
- 3.) **Veit Erpenbeck:** Habilitation at MHH 2007; Merck AG Darmstadt; from 2010 Novartis Institute for BioMedical Research, Basel, Switzerland
- 4.) **Masami Rudolph:** Otolaryngology, University Hospital Ulm
- 5.) **Gernot Sellge** Institute Pasteur, Molecular Microbiology, Paris; from 2010 Consultant Universitätsklinikum Aachen, Medizinische Klinik III, Germany
- 6.) **Julia Skokowa:** Paediatric Haematology & Oncology (Junior group leader); Madeleine Schickedanz professor, Molecular Haematopoiesis, MHH; from 09/14 W3 Professor: Translational Oncology, Innere Medizin II, University Hospital Tübingen
- 7.) **Andreas Tiede:** Professor (Oberarzt), Haematology & Oncology, MHH



Alumni

year 2001 (final exams 2004/2005)

8.) A. Wahid Ansari: Imperial College London, UK; 2010 Pediatric Pneumology, MHH; from 2011 Singapore Immunology Network, Immunology, Biopolis; from 2013 Senior Research Fellow, University of Malaya, Kuala Lumpur, Malaysia

9.) Ferdinand Bahlmann: Nephrology, MHH; Epoplus GmbH; M.Sc.P.M. Duisburg; Research coordinator, Medical Clinics IV, University Hospital, Homburg/Saar and Red Flag Diagnostics, Homburg

10.) Asha Balakrishnan: Molecular Oncology, Institute for Cancer Research and Treatment (IRCC), Turin, Italy; from 2007 Medicine, UCSF, San Francisco, USA; from 2013 Gastroenterology MHH (junior group leader)

11.) Christian Bernreuther: Consultant, Neuropathology, University Hospital Hamburg-Eppendorf, Habilitation

12.) Frank Bollig: Molecular Genetics, Institute for Molecular Biotechnology (IMB), Jena; 2009 Clinical Chemistry, MHH; from 2010 Nephrology, MHH; from 2013 Limbach Laboratory, Hannover; From 2014 Hameln Laboratory Hildesheim

13.) Marc H. Dahlke: 1 year Sydney, AUS; Memorial Sloan Kettering Cancer Center, New York City, USA 2009-2010; Visceral Surgery Regensburg, "Oberarzt" ("Habilitation") and now Professor of Surgery, University Medical Center Regensburg

14.) Meta Djojosebroto: Gene Therapy & Stem Cell Biology, Jules Gonin Eye Hospital, Lausanne, Switzerland, from 2013 babypause

15.) Julia Freise: from 2006 Consultant Pneumology (Pneumooncology), MHH

16.) Christoph Happel: Consultant, Paediatric Cardiology, MHH

17.) Vladimira Jakubcakova: Genes & Behaviour, Max-Planck-Institute for Biophysical Chemistry, Göttingen; from 2007 MPI Psychiatry Munich, from 10/12 Neuroscience-Sleep-Chronobiology, Montreal, Canada

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-Linke: mother of one child; Associate Professor of Pathology, Mersin, Turkey; from December 2014 Fellowship at Hematopathology University of Tübingen

22.) Frank Tacke: Mount Sinai School of Medicine New York; from 2006 Medical Hospital III, Aachen (Habilitation), "Oberarzt" (senior physician), W2 Professor

23.) Mathewos Tessema: Pathology, CRF 225, New Mexico, HSC, USA; from 2010 associate scientist at Lovelace Respiratory Research Institute and Adjunct Assistant Professor Department of Internal Medicine, 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: Center for Immunity, Infection & Inflammation, 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; from 2013 Consultant, Kinderzentrum Lindenpark, Baar, Switzerland

28.) Thomas Gebhardt: Microbiology & Immunology (group leader), The University of Melbourne, Australia

29.) Shashi Kant: Instructor, 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, from 2011 ICON Madrid (CRO company), clinical research; from 2014 clinical investigation at Novo Nordisk, Madrid, Spain

31.) Varsha Kumar: Theodor Kocher Institute, Bern, Switzerland; from 2011 Hospital for Special Surgery, New York, USA

32.) Gesa Meyer: Lohmann Animal Health GmbH, Cuxhaven

33.) Anika Hoffmann (Meyerholz): Paediatric Pneumology, MHH; 2010 babypause; University of Oldenburg

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 (professor, principal investigator)



Alumni

36.) Aravind Sekhar: Molecular Biology, MHH; Residency at Providence, Rhode Island; from 2011 Cardiology Subspecialty Chief Fellowship, University of Louisville, Kentucky, USA and University of Utah

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

38.) Krishna K. Singh: Mount Sinai Hospital, Toronto, Canada; St. Michael's Hospital, Division of Cardiac Surgery, Toronto, Canada; from assistant professor National Institute of Biomedical Genomics (NIBMG), Kalyani, India

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, from July 2014 assistant professor, Cardiovascular & Metabolic Disorders Program, DUKE-NUS graduate Medical School", Singapore

40.) Frank Traub: General, Visceral- and Transplant Surgery, Tübingen; from 2011 Sarkom-Center Berlin-Brandenburg, associated with Max-Delbrück Center Berlin: since July 2013 Orthopaedic Oncology Fellow, Mt. Sinai Hospital, University of Toronto, Canada

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 assistant professor, Prince Mohammed Bin Fahd Center for Research, University of Dammam, Saudi Arabia

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

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

45.) Dorothea Dijkstra: from 2008 Fraunhofer Institute ITEM Hannover, from 2011 Pediatric Pneumology, MHH (junior group leader)

46.) Dorothea Gadzicki: Junior professor, Cell- and Molecular Pathology, MHH; from 2012 MVZ Medivision Altona, Hamburg

47.) Jaba Gamrekelashvili: Gastroenterology, MHH (TwinCore); from 2010 National Cancer Institute, NIH, Bethesda, USA; from 2013 Nephrology, MHH

48.) Arnab Ghosh: Paediatric Haematology & Oncology, MHH; from 2007 Memorial Sloan Kettering Institute; from 2013 Icahn School of Medicine at Mount Sinai, New York, USA

49.) Shipra Gupta: Pharmacology, Experimental and Clinical Peptide Research; from 2007 Transplant Immunology, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston; from 2010 Staff scientist Benaroya Research Institute, Seattle, USA

50.) Eric Hesse: Harvard Medical School, USA; from 2011 W3 Heisenberg professor, Trauma, Hand, and Reconstructive Surgery, UKE, Hamburg

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

52.) Andri Pramono: motherhood, Bonn

53.) Rahul Purwar: Dermatology, MHH; from 2007 Dermatology, Harvard Medical School, Boston, USA; from 2014 assistant professor in Biosciences & Bioengineering Indian Institute of Technology (IIT) Bombay

54.) Bishnudeo Roy: HZI Braunschweig

55.) Gustavo Salguero Lopez: Haematology & Oncology, MHH; from June 2014 Mannheim

56.) Tibor Veres: Fraunhofer Institute ITEM; from 2010 MediCity Research Laboratory, Turku; now junior group leader at University of Turku, Finland

57.) Anastassia Vertii: UMASS Duxsey Lab, Worcester, Massachusetts, USA

year 2004 (final exams 2007/2008/2009)

58.) Rannar Airik: Molecular Biology, MHH; from 08/2009 Paediatrics & Human Genetics, Ann Arbor, Michigan; from 2013 Instructor, Nephrology, Children Hospital, Boston, USA

59.) Abdul Mannan Baru: from 2008 Albert Einstein College of Medicine, New York, USA from 2009 at TwinCore Hannover, from Nov 2012, Molecular and Translational Cardiology, MHH; from Oct 2014 Investigator-Immunologist, GlaxoSmithKline, Stevenage, UK

60.) Sangeeta Chauhan: Gastroenterology, MHH; IMCB Singapore (in 2013 babypause)

61.) Mingmin Chen: Gastroenterology, MHH, now in physiological lecturer at Shaoxing University, China

62.) Prajeeth C.K.: Clinical Microbiology & Immunology & Hygiene, University Hospital Erlangen; from 2011 Neurology MHH

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



Alumni

64.) Joanna Jagielska: Hematology & Oncology, REBIRTH MHH; from June 2014 Site Manager Associate at PRA International, Mannheim

65.) Adan Chari Jirmo: first Immunology and Rheumatology; now Pediatric Pneumology MHH

66.) Gamze Erdmann (Kabalak): worked in UK for big pharmacy group; Hexal/ Sandoz AB Barleben, near Magdeburg; from 2013 head of QA/ Quality systems

67.) Nonsikelelo Mpfu-Mätzig: Gastroenterology, MHH; now Vancouver, Canada

68.) Frederick Onono: Hematology/ Oncology, MHH; from 2010: Univ. of Kentucky, USA

69.) 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

70.) Aaheli Choudhury Roy: Gastroenterology/ REBIRTH; from 2010 Georg Speyer Haus, Institute for Biomedical Research, Frankfurt, Germany; from 2014 Hematology/ Oncology, university hospital Frankfurt

71.) Jessica Schwermann: Physiological Chemistry, MHH; from 2011 Application Specialist, Protagen AG, Dortmund; from 2013 2-year sabbatical (sailing around the world)

72.) Meera Shah: Burnham Institute for Medical Research, La Jolla; from 2013 Penn State University, Hershey, Pennsylvania, USA

73.) Anurag K. Singh: Gastroenterology, MHH

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

75.) Basant Kumar Thakur: Paediatric Haematology & Oncology, MHH

76.) Murat Ünal: Paediatric Haematology & Oncology, MHH; Molecular Haematopoiesis, MHH

77.) Fei Zhao: TwinCore Hannover; from 2010 National Cancer Institute, NIH, Bethesda, USA; from 2013 Wuhan Institute of Virology, Chinese academy of sciences, China

year 2005 (final exams 2008/2009/2010)

78.) Ursula Ehmer: Sage Lab, Department of Pediatrics, University of Stanford, USA; from 2012 Internal Medicine II, Klinikum Rechts der Isar, TU Munich, own research group

79.) Matthias Christgen: Pathology, MHH (Habilitation)

80.) Priyanka Dutta: Physiological Chemistry, MHH; New York, USA, babypause

81.) Luis Miguel Guachalla: from 2011 Research Center for Molecular Medicine, Austrian Academy of Science; from 2012 scientist in Biotech Company Arsanis Bioscience, Vienna

82.) Lydia Asrat Haile: National Cancer Institute, NIH, Bethesda, USA; from 2012 Food and Drug administration (FDA), Bethesda, MD

83.) Harshvardhan Rolyan: University of Ulm; from 2011 University of Pittsburgh

84.) Henoch Hong: from July 2009 MHH; from January 2010 Harvard Medical School, Boston, USA; from April 2014 Scientist at CureVac GmbH, Tübingen, Germany

85.) Ananta Paine: Unit of Computational Medicine, Center for Molecular Medicine, Department of Medicine, Karolinska Institute, Stockholm, Sweden

86.) Amrita Rai: Biophysical Chemistry MHH

87.) Mathias Rhein: Core facility "Cell sorting" MHH; from 2011 Molecular Neurosciences, Clinical Psychiatry MHH

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

89.) Inga Sörensen-Zender: Nephrology MHH

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

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

92.) Kathrin Steinwede: Experimental Pneumology MHH

93.) Shahzad Nawaz Syed: Department of Pathology & Molecular Medicine, McMaster University, Canada, from 2013 Goethe University Frankfurt

94.) Dong Wang: Dermatology MHH; Medical University of Vienna, Austria; University of Bern/Zürich, Switzerland; since 2012 tumour immunology in Centre of Immune Regulation, University of Oslo/University Hospital, Norway

95.) Alexander Wolf: Institute of Pharmacology, University of Giessen, Germany; from 2012 Scientist, Molecular Diagnostics, Qiagen, Hilden

96.) Katja Zscheppang: Paediatrics MHH; National Center for Radiation Research in Oncology (OncoRay), Dresden

year 2006 (final exams 2009/2010/2011/2012)

97.) Hengameh Abdollahpour: Pediatrics MHH, from 2011: UKE Hamburg; from Sep. 2013 „Ärztin in der Weiterbildung“ at MVZ genteQ Hamburg

98.) Nora Anderson: Nephrology, Klinikum Braunschweig

99.) Arpita Baisantry: from 2012 Pediatric Nephrology, MHH



Alumni

100.) V. Hari Balaji: Benaroya Research Institute, Seattle, USA; From April 2014 Research Scientist SingHealth, Singapore

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

102.) Kshama Gupta: Postdoc Post Doc. (since Feb 2012), at the Institute Foundation Molecular Oncology (IFOM-IEO), in Milan, Italy.

103.) Dhivya Haridass: Munich, Germany

104.) Niels Heinz: from 2013 LOEWE-Research Group for (targeted) Gene Modification in Stem Cells, Paul-Ehrlich Institute, Langen

105.) Wolfgang Koestner: Diagnostic and Interventional Radiology, MHH

106.) Tobias Mätzig: Experimental Hematology and Oncology, MHH; from 2013 Terry Fox Laboratory Vancouver, Canada

107.) Manoj B Menon: Physiological Chemistry MHH

108.) Natalie Naue: Biophysical Chemistry MHH

109.) Nidhi Narain: Research scientist, Oncology, Piramal Healthcare Ltd., Mumbai, India

110.) Daniel Pöhnert: General, Visceral and Transplantation Surgery, MHH

111.) Wilhelm Walter: Max-Planck Institute Dresden; from 2014 Assistant Professor for Molecular Plant Physiology at the University of Hamburg

112.) Xiangyue Zhang: Immunology, MHH, from 2013 Pathology (working on Cellular Immunology), Stanford University School of Medicine, USA

113.) Kristina Wiege: Clinic for Immunology and Rheumatology, MHH; from 2013 X-Lab University of Göttingen

year 2007 (final exams 2010/2011/2012)

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

115.) Vijay K. Chennupati: Ludwig Institute for Cancer Research, Lausanne, Switzerland

116.) Sheetal Ramachandran Chettiar:

117.) Sadaf Kasraie: Scientist and scientific project manager, Global Preclinical Drug Discovery, Grünenthal Innovation, Grünenthal Pharma GmbH, Aachen, Germany; from 2014 Evotec, drug discovery in inflammation, Hamburg

118.) Katja Crull (Kochrube): Gene Regulation and Differentiation, HZI, from 2/2012: Wehrwissenschaftl. Institut, Bereich Biologisches Zentrallabor, Munster

119.) Jayendra Kumar Krishnaswamy: Laboratory Medicine, Yale University School of Medicine, USA

120.) Jan Larmann: Anesthesiology MHH

121.) Subhashree Mahapatra: Advanced Research Scientist, L'Oréal Paris

122.) Ankita Minhas: Project Manager, Vakzine Project Management GmbH, Hannover; from 2014 Project ManagerII with a global CRO INC Research LLC., San Diego, USA

123.) Susann Hartung, née Müller: LEBAO MHH, from September 2013 babypause

124.) Mudita Pincha: German Cancer Research Center (DKFZ), Heidelberg

125.) Harald Schütt: Cardiology MHH; from 2013 Cardiology, University Clinics Marburg

126.) Adrian Schwarzer: Experimental Hematology, MHH

127.) Theodros Solomon Tsegaye: 2011-2013 Postdoc at Center for Disease Control and Prevention (CDC), Atlanta, USA. From 2014 US Medical residency

128.) Usriansyah: Dermatology, University Hospital Zuerich, Switzerland

129.) Susanne Wolf: Experimental Hematology, MHH

year 2008 (final exams 2011/2012/2013)

130.) Andrea Autengruber: Leibniz-Institute for environment-medical research (IUF), Particle-Cell-Interaction, Düsseldorf

131.) Kiran Bala: Virology, MHH

132.) Rajkumar Bhayadia: Pediatric Nephrology, MHH

133.) Yarua Jaimes Becerra: Immune Regulation, Deutsches Rheuma-Forschungszentrum (DRFZ), Berlin

134.) Tamaryin Godinho: Experimental Hematology, MHH; Associate Editor - Angewandte Chemie, Wiley-VCH (Weinheim)

135.) Dirk Heckl: Harvard Medical School, USA; Pediatric Hematology, MHH (junior group leader)

136.) Daniela Kieneke: Virology, MHH; from 2013 Immunogenetics (among head of lab), Transfusion Medicine, MHH

137.) Annika Krämer-Kühl: Infection Biology, German Primate Center, DPZ, Göttingen; from February 2013 R&D Boehringer Ingelheim Veterinary Research Center Hannover

138.) Elena Lam: Molecular Virology, Heinrich Pette Institute, Hamburg

139.) Hui Zhi Low: Clinic for Immunology and Rheumatology, MHH

140.) Aliaksandra Maroz: Pediatric Hematology & Oncology, MHH; from 2013 Scientific Manager at Sysmex Europe GmbH, Hamburg



- 141.) Martin May:** Biochemicals, Fraunhofer Institute ITEM, Hannover
- 142.) Vanessa Melhorn:** Postdoc and from 2014 coordinator of Sonderforschungsbereichs SFB 900, Virology, MHH
- 143.) Pooja Mishra:** from 09/13 Canada
- 144.) Dhaarini Murugan:** Pediatrics, University Clinics of Munich; USA
- 145.) Nils Pfaff:** from 11/2013 Lab Head Cardiogenomics, Bayer HealthCare, Wuppertal
- 146.) Tim Ripperger:** Human Genetics (former Cell and Molecular Pathology), MHH
- 147.) Volker Rust:** representative, Almirall Hermal, Reinbek (Hamburg)
- 148.) Ayesha Sultan:** Institute of Physiology, University of Ulm
- 149.) Krishna Chaitanya Vallabhaneni:** Cancer Institute, UMMC, Jackson, Mississippi, USA

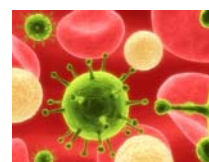
year 2009 (final exams 2012/2013)

- 150.) Fared Ahmad:** Clinical Immunology and Rheumatology, MHH
- 151.) Mariam Al-omari:** Assistant professor at Faculty of Medicine /Yarmouk University Jordan
- 152.) Mona El Khatib:** Pediatric Hematology & Oncology, MHH
- 153.) Stephan Emmrich:** Pediatric Hematology & Oncology, MHH
- 154.) Lisa Föhse:** from 2014 Sysmex Inostics GmbH, Hamburg
- 155.) Venkateswaran Ganesh:** scientist in Scientific Research Organization V ClinBio, Chennai, India
- 156.) Franziska Greulich:** Molecular Biology, MHH
- 157.) Shashi Kumar Gupta:** Molecular and Translational Therapeutic Strategies, MHH
- 158.) Christine Happle:** Pediatric Pneumology, MHH
- 159.) I-Na Lu:** Institute of Immunology of CRP-Sante, Luxembourg city
- 160.) Sumadi Lukman Anwar:** Pathology, MHH
- 161.) Erum Sugra Naqvi:** India
- 162.) Ramesh Pandey:** Pediatric Hematology & Oncology, MHH; from 2014 SmartAnalyst, Gurgaon, India
- 163.) Ruhi Phaltane:** Experimental Hematology, MHH
- 164.) Amit Sharma:** Hematology & Oncology, MHH
- 165.) Georgios Sogkas:** Clinical Immunology and Rheumatology, MHH

- 166.) Antoaneta Toncheva:** Pediatric Pneumology and Allergy, University Children's Hospital Regensburg (KUNO), Regensburg
- 167.) Haiyang Yun:** Hematology & Oncology, MHH; from June 2014 Research Associate (postdoc position), Haematology, Cambridge Institute for Medical Research (CIMR), University of Cambridge, UK.

year 2010 (final exams 2013/2014)

- 168.) Parnian Kalbasi Anaraki:** Nephrology, MHH
- 169.) Setareh Banihosseini:** Vancouver, Canada
- 170.) Claudia Bang:** IMTTS, MHH
- 171.) Ramachandramouli Budida:** Clinical Immunology and Rheumatology, MHH
- 172.) Himpriya Chopra:** Immunology, MHH
- 173.) Arpita Chowdhury:** Anaesthesiology, MHH
- 174.) Sebastiaan Goy:** Toxicology, MHH
- 175.) Tran Doan Duy Hai:** Physiological Chemistry, MHH
- 176.) Olga Klimenkova:** Molecular Hematopoiesis, MHH
- 177.) Michael Radke:** Biophysical Chemistry, MHH
- 178.) Bi-Huei Yang:** Experimental Immunology, HZI
- 179.) Ching-Fang Wu:** Nephrology, E-Da hospital, Kaohsiung, Taiwan



PhD program "Infection Biology"

year 2003 (final exams 2006/2007/2008)

- 1.) Simon Berberich:** Senior Projektmanager Ecron Acunova GmbH, Frankfurt/Main
- 2.) Tanja Bosse:** Evotec AG, Research Scientist
- 3.) Eva Gellermann/née Brüning:** CrossBIT, Hannover, parental leaves 2009 and 2011
- 4.) Michael Düwel:** GSF - National Research Center for Environment and Health, Munich; head of lab at Multimmune GmbH, Munich; from 2012 Servier Forschung und Pharma-Entwicklung GmbH, München
- 5.) Heidi Imhoff:** 04/07-09/08: Medical Science Liaison, Immunology, essex pharma, Munich; 09/08-06/11: Medical & Scientific Liaison, Immunology, Merck Canada (previously Schering-Plough Canada); 08/11-12/12: MBA student at Sauder School of Business, University of British Columbia, Vancouver, Canada; Dec. 12 MBA (Graduation May 13),



Alumni

11/12-07/13 Medical Science Liaison at InterMune Canada Inc.; since 1 Aug. MSD Sharp & Dohme, Market Access Team, Manager Outcomes Research in Munich

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; maternity leave with second son; ICON, Clinical Data Analyst

7.) Petra Lütthje: Karolinska Institutet, Department of Microbiology, Tumor and Cell Biology (MTC)

8.) Maren Mönkemeyer: Clinical Immunology, MHH; from Oct. 2007 QUISIANA Pharma, Hannover; from October 2012 product management for private label pharmaceutical products Altapharma/ Rossmann GmbH, Hannover

9.) Patrick Olbermann: Zentrum für Infektionsforschung, University of Würzburg

10.) Simone Reinwald: Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia 2012-2013 Mutterschutz, ab 2014 Research Administrator, Research Office Baker IDI Heart and Diabetes Research Institute, Melbourne

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 Mediatech Media in London; from 2013 Global Publications Strategy Manager, Boehringer Ingelheim

15.) Angelika Hafke/ née Waltermann: UMG-Laboratory / Department of Clinical Chemistry, University Medical Center Göttingen, University of Göttingen (parental leaves in 2008 and 2010)

16.) Claudia Welz: Bayer HealthCare Animal Health, Monheim, Anthelmintics Research

17.) Ulrike Wittkopp: Head of Business Development at Hannover Clinical Trial Center GmbH

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 Postdoc at EPFL Lausanne; 2014 UCB Pharma, Switzerland

22.) Davide Ferraris: University of Eastern Piedmont, Novara, Italy

23.) Julia Heinzmann: Friedrich-Loeffler-Institute of Farm Animal Genetics in Mariensee

24.) Kay Johswich: 08/2008-04/2013 Department of Molecular Genetics, University of Toronto; since 05/2013 group leader at the Institute for Hygiene and Microbiology, Würzburg

25.) Janet Kregge: 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, since 2014 Postdoc at Cancer Sciences Unit, University of Southampton, 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: Manager of Scientific Affairs, Vaccination and Adjuvant Strategies, Crucell, The Netherlands

34.) Stefanie Weiß: Project Manager, Toplab GmbH in Martinsried

35.) Caroline Zaoui: Microbiology, Greenloop, Brussels, Belgium

36.) Beata Zygmunt: The Babraham Institute, UK

year 2005 (final exams 2009, 2010)

37.) Nadja Bakocevic: Research fellow in Singapore Immunology Network, Singapore

38.) Sara Bartels (Leschner): Molecular Immunology, HZI

39.) Nupur Bhatnagar: Clinic for Immunology and Rheumatology, MHH; from Oct. 2012 post-doctoral research associate on 'Antigen specific T-cell and B-cell responses in food allergies' at Benaroya Research Institute, Seattle, USA; Postdoctoral research associate at Institut Pasteur, Paris, France

40.) Mandy Glaß: MRC Unit Virology, University of Glasgow, UK



Alumni

- 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:** Training "Klinische Forschung / Clinical Data Manager", mibeg-Institut Medizin (Köln).
- 45.) **Julia Micklinghoff:** action medeor e.V. Deutsches Medikamenten-Hilfswerk, Tönisvorst, Germany; Physikalisch-Technischen Bundesanstalt (PTB) in Braunschweig, Project coordinator "Technical Cooperation with Asia"
- 46.) **Claudia Moccia:** Drug Regulatory Affairs Manager at Salutas Pharma (Hexal-Sandoz-Novartis Group), Magdeburg, Germany
- 47.) **Florence Njau:** Nephrology, MHH
- 48.) **Stefan Pachnicke:** Bayer Vital GmbH, Tiergesundheits, Leverkusen
- 49.) **Marcel Pietrek:** Virology, MHH; from January 2014 Group leader Virology at Institut Virion/Serion GmbH in Würzburg
- 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:** Institute of Functional and Applied Anatomy, MHH; parental leave 2011 and 2014
- 53.) **Swati Shukla:** Postdoc at Lund University hospital, Sweden
- 54.) **Malgorzata Szczodrak:** Clinical Development Manager, AstraZeneca, Warsaw Clinical Operational Hub, Poland
- 55.) **Halina Tegetmeyer:** Center for Biotechnology – CeBiTec, Bielefeld
- 56.) **Milena Tosiek:** Postdoctoral fellow at Institute Pasteur, Paris, France
- 57.) **Sarvari Velaga:** Haematology&Oncology, MHH
- 58.) **Tetyana Yevsa:** Department of Gastroenterology, Hepatology and Endocrinology, MHH

year 2006 (final exams 2010, 2011)

- 59.) **Nicole Dietrich:** ALLStil Studien GmbH, Frankfurt (Clinical Trial Assistant); son born on 25.05.2012, parental leave; from August 2013 Boehringer Ingelheim, "Medical Information Officer"
- 60.) **Sirine El Houry Mignan:** Zürich, Switzerland;
- 61.) **Swantje Hammerschmidt:** Postdoc at VIB (group of Bart Lambrecht), Gent, Belgium; from Sept. 2013 Postdoc at Institute of Immunology, MHH

- 62.) **Jan Hänisch:** Postdoc at Institute Pasteur, Paris, France
- 63.) **Anika Hävemeier:** Freelance Clinical Research Associate, Novartis
- 64.) **Sonja Horatzek:** Julius Kühn Institut, Braunschweig; from July 2013 AutoVision GmbH, Braunschweig
- 65.) **Florian Klauschies:** Thermo Fisher Scientific, Freiburg, Germany
- 66.) **Rajesh Kolli:** "GVKbio", Hyderabad, India
- 67.) **Zofia Magnowska:** Postdoc at University of Copenhagen Research Centre for Control of Antibiotic Resistance, Denmark
- 68.) **Manju Nagarajan:** Postdoc at dept. of Experimental Surgery, University of Regensburg
- 69.) **Miriam Nörder:** HCTC Hannover
- 70.) **Ulfert Rand:** Postdoc at DKFZ, Heidelberg, from November 2012 University of Manchester, from November 2014 group of Luka Cicin-Sain, HZI
- 71.) **Anchana Rathinasamy:** Postdoc DKFZ, Heidelberg, Cancer Immunology
- 72.) **Fabienne Rehren:** Drug safety officer at clinical research organisation, Berlin
- 73.) **Rachel Thomas:** Senior consultant at Centre for Molecular Medicine Norway (NCMM); from 2012 *Hafing-Fyhn neuroscience group, University of Oslo, Norway*

year 2007 (final exams 2010, 2011, 2012)

- 74.) **Imke Barga:** Postdoc at Leibniz-Institute for environment-medical research (IUF), Immunology, Düsseldorf
- 75.) **Lucie Bartonickova:** Clinical Microbiology at Universitätsklinikum Bonn
- 76.) **Paulina Blazejwska:** Vaccinology, HZI
- 77.) **Christiane Brohm:** Clinical project manager at Vakzine Projekt Management GmbH, Hannover
- 78.) **Tamas Dolowschiak:** postdoctoral fellow at Microbiology, ETH, Zürich
- 79.) **Ines Hahn:** Experimental Pneumology, MHH
- 80.) **Wiebke Jäger (nee Albrecht):** Virology, MHH
- 81.) **Semra Kati:** Virology, MHH
- 82.) **Thalea Koithan:** Virology, MHH, 09/2014 bioinformatics master in Lund, Schweden
- 83.) **Anja Marquart:** GE Healthcare, Dassel; from Nov. 2013 Octapharma in Springe "Head of Quality in Operations"
- 84.) **Georgios-Leandros Moschovakis:** Immunology, MHH



Alumni

85.) Julia Lieske (née Schneider): Hamburg

86.) Evgenyia Scheibe (Solodova): Postdoc "Viral Immune Modulation" at HZI (group of Dr. Brinkmann); from January 2013 Volkswagen Wolfsburg

87.) Barkha Srivastava: Comprehensive Pneumology Centre (CPC), Inst. of Lung Biology and Disease (iLBD), Helmholtz Zentrum Munich, parental leave

88.) Imke Steffen: Blood Systems Research Institute, San Francisco, CA, USA

89.) Benjamin Wahl: GATC Biotech, Konstanz

90.) Jörg Willenborg: Postdoc at Microbiology, TiHo

year 2008 (final exams 2011, 2012, 2013)

91.) Constantin Bode: Eurofins CPT in Hamburg

92.) Asolina Braun: Postdoc at the Institute of Microbiology and Immunology, University of Melbourne, Australia

93.) Christina Brumshagen: Pulmonary Medicine, MHH, Student of Pharmacy at TU Braunschweig

94.) Anna Buch: Postdoc at Institute of Virology, MHH

95.) Marcin Cebula: Model Systems for Infections, HZI

96.) Johanna Eberhard: Clinic of Immunology, MHH; from March 2013 Postdoc at the I. Department of Medicine, Infectious Diseases Unit, University Medical Center Hamburg-Eppendorf

97.) Harro Frauendorf:

98.) Ildar Gabaev: Virology, MHH

99.) Elena Grabski: Postdoc at the institute of experimental infection research, Twincore

100.) Darya Haas/née Stsepanenka: Innate Immunity Laboratory at MPI of Biochemistry, Martinsried

101.) Jan Haas: Morphosys, Martinsried

102.) Stephan Halle: Postdoc at Inst. of Immunology, MHH

103.) Antje Ksienzyk: deputy department leader of quality control, Fraunhofer Institute IZI, Leipzig

104.) Henriette Adam/née Langhans: Labor Dr. Böse GmbH, Harsum (near Hildesheim)

105.) Anna Pelnickewich: Paediatric Pneumology, MHH

106.) Malte Sandbaumhüter: Virology, MHH

107.) Olga Schulz: Postdoc at Inst. of Immunology, MHH

108.) Christian Stern: Molecular Immunology, HZI; "science journalist" OneWorldOneLab.net, from summer 2014 "Redakteur Interne Kommunikation", HZI

109.) Elisabeth Wende Institut für Bioanalytische Chemie, Leipzig University; from July 2014 Deutsches Zentrum für Luft- und Raumfahrt (BMBF), Bonn

110.) Yuri Yakuschko: Virology, MHH

111.) Christina Tebartz (Ziegler): Infection Immunology, HZI; from February 2013 University of Melbourne in Sammy Bedoui's Group

year 2009 (final exams 2012, 2013)

112.) Andrea Bischof: Postdoc at Inst. of Virology, MHH

113.) Anusara Daenthanasanmak: Postdoc at Dept of Microbiology and Immunology, Medical University of South Carolina

114.) Simon Danisch: Clinical Chemistry, MHH

115.) Baishakhi Datta: Medical Writer, Brussels

116.) Deepika Devadas: Postdoc at the Department of Mechanical and Industrial Engineering at the University of Toronto, Canada

117.) Adarsh Dharan: Stritch School of Medicine, Chicago in Edward Campbell's group

118.) Marius Döring: Postdoc at the institute for Experimental Infection Research TWINCORE

119.) Henrike Fleige: Immunology, MHH

120.) Wiebke Ginter: Coordinator Master Biomedizin, MHH

121.) Sarah Hinkelmann: from July 2013 Herescon GmbH, Hannover

122.) Yi-Ju Huang:

123.) Kathrin Hüging: Postdoc Department of Experimental Virology, Twincore

124.) Kirstin Jurrat: Cellular Proteome Research, HZI

125.) Bahram Kasmapiour Seighalani: PostDoc at the "Immune Aging and Chronic Infections" (IMCI) group, HZI Braunschweig

126.) Lucas Kemper: Clinical Research Associate, Novartis

127.) Uliana Komor: Sanofi Pasteur as Medical science liaison

128.) Natascha Kruse: Model Systems of Infection and Immunity, HZI

129.) Cornelia Lindner: since October 2013 Postdoc at University of Tübingen, Institut für Zellbiologie, Abteilung für Immunologie, Arbeitsgruppe von Prof. Jung

130.) Wiebke Opitz: Bayer HealthCare, Product Supply, Berlin, Biological Quality Control

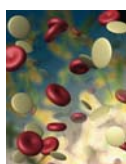


year 2010 (final exams 2014, 2013)

- 131.) Patrick Bartholomäus:** Dept. of Experimental Infection Research, Twincore
- 132.) Marijana Basic:** Postdoc at Institute of Laboratory Animal Science, MHH
- 133.) Friederike Behler-Janbeck:** Postdoc at Dept. of Experimental Pneumology, MHH
- 134.) Fiordilieg Casilag:** Molecular Bacteriology, Twincore
- 135.) Michael Frahm:** Tierarzt at Tierärztliche Klinik für Kleintiere, Wasbek
- 136.) Kerstin Gnirß:** Infection Biology Unit, German Primate Center, Göttingen
- 137.) Julia Heinrich:** Dept. of Experimental Infection Research, Twincore
- 138.) Elham Kashani:** Immunology, MHH
- 139.) Jennifer Kleine-Albers:** Virology, MHH
- 140.) Johannes Schwerk:** Postdoc at the HZI, Group 'Model Systems for Infection'
- 141.) Felix Stahl:** Institute for Clinical Chemistry and Laboratory Medicine, University Medical Center Hamburg-Eppendorf
- 142.) Milas Ugur:** Institute of Molecular Medicine, RWTH Aachen
- 143.) Zuobai Wang:** BeiGene (Beijing) Co., Ltd, Beijing, China

year 2011 (final exams 2014)

- 144.) Rebecca Geyer:** Molecular Infection Biology, HZI



PhD Program “Regenerative Sciences“

Year 2007 (final exams 2011, 2012; 2013)

- 1.) Lacramioara Botezatu:** Postdoc at the Clinic for Hematology, Universitätsklinikum Duisburg-Essen, Germany
- 2.) Milada Butueva:** ass. physician, Städtisches Klinikum Magdeburg, Germany
- 3.) Mareike Derks:** ORPHANET Germany, Institute of Human Genetics, MHH
- 4.) Kishor Londhe:** since July 2012 Independent researcher, Entrepreneur, Pune Area, India

5.) Michaela Mai: since April 2014 Health & Social Policy Department, German Federal Society for Multiple Sclerosis, Hannover, Germany

6.) Ina Rittelmeyer: Department of Gastroenterology, Hepatology and Endocrinology, MHH, since June 2012: Diagenos, Osnabrück, Germany

7.) Angelica Roa Lara: Postdoc, Institute of Pharmacology, University Medical Center Göttingen, Germany

8.) Namita Saran: Postdoc in MRC Laboratory of Molecular Biology, Cambridge, UK; since August 2014: Postdoctoral Research Assistant, King's College London, UK

9.) Sabrina Schmeckebeier: Postdoc, Department of Cardiothoracic, Transplantation and Vascular Surgery (HTTG), MHH

10.) Vivek Vikram Singh: Postdoc at the Institute of Microbiology & Immunology, Chicago Medical School (RFUMS), Chicago, USA

11.) Bala Sai Sundarasetty: Postdoc in RG Lymphatic Cell Therapy (REBIRTH) at the Clinic of Haematology, Haemostatology, Oncology and Stem Cell Transplantation, MHH

12.) Ewa Surdziel-Cabanska, née Surdziel: November 2011, Presidential Postdoctoral Fellow, Novartis Institutes for BioMedical Research (NIBR), Novartis Pharma (Basel, Switzerland)

13.) Christine Walter née Völkel: registration manager, BELCHIM Crop Protection, Burgdorf, Germany

14.) Kathrin Wolf: Inflammation and Immunity, HZI, since April 2012: Scientist R&D at QIAGEN GmbH, Hilden, Germany

Year 2008 (final exams 2011, 2012, 2013, 2014)

15.) Tanmay Chakradeo: Institute for Multiphase Processes, LUH; since September 2013 Junior Operating Engineer, Evonik, Lüllsdorf, Germany

16.) Julia Dahlmann: Postdoc, Leibniz Research Laboratories for Biotechnology and Artificial Organs (LEBAO), MHH; since October 2013 Department of Cardiothoracic Surgery, Otto-von-Guericke University Magdeburg, German

17.) Reto Eggenschwiler: Postdoc, JRG Stem Cell Biology, Department of Gastroenterology, Hepatology and Endocrinology, MHH

18.) Benjamin Groß: since July 2012 Postdoc at Oklahoma Research Foundation, Oklahoma City, USA; since July 2013 Compliance & Quality Operations Analyst Boehringer Ingelheim; since July 2014 Project Management Consultant bei Behrens Projektmanagement GmbH, Marburg, Germany



Alumni

19.) Monica Jara Avaca: Postdoc, Leibniz Research Laboratories for Biotechnology and Artificial Organs (LEBAO), MHH

20.) Kashyap Krishnasamy: Postdoc, Clinic of Nephrology, MHH

21.) Nico Lachmann: Postdoc in JRG Reprogramming, REBIRTH, MHH

22.) Sylvia Merkert: Postdoc, Leibniz Research Laboratories for Biotechnology and Artificial Organs (LEBAO), MHH

23.) Michael Rothe: Postdoc at Experimental Hematology, MHH

24.) Maryam Saghaian: Postdoc at Karolinska Institutet, Stockholm, Sweden

25.) Maya Sethi: Postdoc at Cellular Chemistry, MHH, since January 2013 Postdoc at Immunology, MHH

26.) Christoph Stoll: Process Specialist, Production Small Scale Area, Baxter Oncology in Halle/Westfalen, Germany

27.) Huan Sun: Manager Registration, MDSS – Medical Device Safety Service, Hannover, Germany

28.) Kathrin Thomay, née Lange: Postdoc, Human Genetics, MHH

29.) Ramin Vakilzadeh: Postdoc, Institute of Immunology, MHH, since October 2012 student of medicine at MHH

30.) Zlata Vukadinovic-Nikolic, née Vukadinovic: assistant physician, obstetric and perinatal care unit, Friederikenstift, Hannover, currently on maternity leave

Year 2009 (final exams 2013, 2014)

31.) Maryam Akhoondi: Product Manager, Karl Storz Endoskope, Tuttlingen, Germany

32.) Anne Christel: Postdoc, Institute for Inorganic Chemistry, Leibniz Universität Hannover; since March 2014 Material- and Product development, ContiTech Elastomerbeschichtung GmbH, Hannover, Germany

33.) Ulf Diekmann: Postdoc, Institute of Clinical Biochemistry, MHH

34.) Anne-Kathrin Dreyer: Postdoc, Experimental Hematology, MHH

35.) Christiane Gras: Postdoc, Institute for Transfusion Medicine, MHH

36.) Reinhard Hämmerle:

37.) Dag Heinemann: Postdoc, Biomedical Optics Department, Laser Zentrum Hannover e.V., Hannover, Germany

38.) Johannes Kühle: Postdoc, Experimental Hematology, MHH

39.) Chun-Wei Lee: Postdoc, Department of Hematology, Hemostasis, Oncology and Stem Cell Transplantation, MHH

40.) Daniel Maeda: Lecturer, University of Dar es Salaam (UDSM), Dar es Salaam, Tanzania

41.) Martin Pacher: Postdoc, Twincore, MHH; since March 2014 Process Specialist Production, Novartis Vaccines, Marburg, Germany

42.) Jessica Röbber: Postdoc, Institute of Pathology, MHH

43.) Laura Schlausa:

Year 2010 (final exams 2014)

44.) Radiana Antarianto: Lecturer, Faculty of Medicine Universitas Indonesia (FKUI), Jakarta, Indonesia

45.) Salma Buddaseth: Postdoctoral Research Fellow, Department of Molecular Pharmacology and Chemistry, Memorial Sloan Kettering Cancer Center (MSKCC), New York, USA

46.) Debanjana Chatterjee: Postdoc, Clinical Immunology and Rheumatology, MHH; from November 2014 Postdoc, Columbia Center for Translational Immunology (CCTI) at Columbia University Medical Center (CUMC), New York, USA

47.) Sarah Konze: Postdoc Cellular Chemistry, MHH; currently on maternity leave

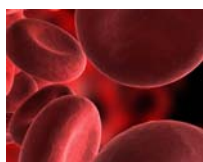
48.) Anastasia Koroleva: Postdoc, Nanotechnology, Laser Zentrum Hannover e.V.

49.) Christoph Lipps: Postdoc, Research Group 'Model Systems for Infection and Immunity', Department of Vaccinology and Applied Microbiology, Helmholtz Center for Infection Research, Braunschweig, Germany

50.) Selina Möbus: Postdoc, Research Group 'Translational Hepatology and Stem Cell Biology' and 'Junior Research Group 'miRNA in Liver Regeneration'', REBIRTH, MHH

51.) Robert Ramm: Postdoc, Leibniz Research Laboratories for Biotechnology and Artificial Organs (LEBAO), MHH





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

year 2006 (final exams 2010/2011/2012)

- 1.) **Sabine Stegemann-Koniszewski:** Group Immune regulation, HZI, London School of Hygiene, UK
- 2.) **Sabrina Voedisch:** Neurology Dpt., Freiburg
- 3.) **Sebastian König:** Abbott Laboratories
- 4.) **Andreas Jeron:** Group Immune regulation, HZI
- 5.) **Mathias Müsken:** Institute for Molecular Bacteriology, TWINCORE
- 6.) **Kerstin Stegmann:** London School of Hygiene, UK
- 7.) **Claudia Dürr:** McGill University, Montreal, Canada
- 8.) **Katrin Janik:** Land- und Forstwirtschaftliches Versuchszentrum Laimburg, Bozen, Bereich "Funktionelle Genomik"
- 9.) **Peggy Riese:** Vaccine Research, HZI
- 10.) **Sarah Horst:** Infection Immunology, HZI
- 11.) **Nina Coombs:** Medical Microbiology and Hospital Epidemiology, MHH
- 12.) **Dorothea Bankwitz:** Experimental Virology, TwinCore
- 13.) **Lynn Kennemann:** Medical Microbiology and Hospital Epidemiology, MHH; from autumn 2012 babypause
- 14.) **Susan Sanntag:** Virology, MHH

year 2009 (final exams 2013,2014)

- 15.) **Miriam Kiene:**
- 16.) **Luisa Denkel:** Trainee in Epidemiology, Institute for Hygiene and Environmental Medicine, Charité Berlin
- 17.) **Syed Fazle Rouf, Ph.D.:** Karolinska-Institute, Stockholm AG Rhen
- 18.) **Chriselle Mendonca:**
- 19.) **Maxi Scheiter:** Cellular Proteomics, HZI
- 20.) **Anne Frentzen:** Experimental Virology, TwinCore
- 21.) **Sebastian Lunemann:** from March 2014 HPI Hamburg
- 22.) **Pavel Dutow:** Medical Microbiology MHH
- 23.) **Chee Han Lim:** Senior Analyst at Penang Institute Malaysia
- 24.) **Saumya Gupta:** UCL Cancer Institute, London, UK

25.) **Andrea Blanka:** Molecular Bacteriology TWINCORE

26.) **Eugenia Gripp:** babypause

GRK 1441 "Allergic response in lung and skin"

year 2006 (final exams 2010/2011)

- 1.) **Saskia Knothe:** Project Management Therapeutic Cell Initiative Pharma Research and Early Development (pRED), Roche Diagnostics GmbH, Penzberg
- 2.) **Verena Kopfnagel (nee Schäfer):** Immunodermatology and Allergy Research, Dermatology, MHH
- 3.) **Carla Winkler:** Immunology and Allergology, ITEM; from 09/13 Senior Scientist at AstraZeneca Göteborg, Sweden
- 4.) **Jana Zeitvogel:** Dermatology, MHH
- 5.) **Carolin Pilzner:** Infection Genetics, HZI Braunschweig
- 6.) **Ann-Kathrin Berendt:** Experimental Surgery, University Hospital of Rostock
- 7.) **Jenny Seltsmann:** Canada
- 8.) **Susanne Hradezky:** Immunodermatology and Allergy Research, MHH





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