



October 19th, 2015

10th Newsletter

Dear HBRs Alumni students,

We proudly present our tenth HBRs Alumni newsletter on the occasion of the 15th anniversary of structured PhD training at MHH (the MD/PhD program Molecular Medicine started in 2000). We will report here last year's developments of Hannover Biomedical Research School as well as those of MHH. For example, students have organized the Master Class "From Bench to Bedside - Molecular Therapeutic Strategies". 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". A new KlinStrucMed program started in July 2015. (page 3) Currently, the various programs of HBRs host ~280 PhD students. In addition, 42 medical students were accepted for StrucMed, 11 for KlinStrucMed 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 2014



Master Class 2015

The Master class "From Bench to Bedside - Molecular Therapeutic Strategies" took place on May 7th/8th, 2015. It was organized completely by a group of students of HBRs (all three main PhD programs). They invited Hendrik Schulze-Koops (LMU, Munich) who gave an overview of monoclonal antibodies in inflammatory disease. Then Leon de Windt (Maastricht University, NL) talked about gene regulation in translational cardiac research. The third speaker on the second day was Sir Phillip Cohen (University of Dundee, UK). He presented his work on cell signalling in innate immunity. In summary, the three talks added up very well and gave a broad overview of the current knowledge and main research directions in the field of new molecular therapeutic targets and strategies. On the first days' 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 and barbeque in the indoor garden of building J2 concluded the first day. Thank you very much for the great organization!

Master Class 2015

Organizers (left to right): K. Schimmel, A. Thorenz, K. Thamm, Ruisi H. Lin, R. Komoll, C. Schauerte, K. Tappe, A. Foinquinos, C. Ureche, R. Lotke





3rd 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 March 20th–22nd, 2015. Students were coming from Argentina, Belarus, China, Costa Rica, Egypt, India, Iran, Mexico, Nepal, Nigeria, Portugal, South Africa 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, a walk in the historical museum, visit to the *Deutscher Bundestag/ Reichstag*, the *Brandenburg Gate*, 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 professors and supervisors:

- **Emanuelle Charpentier** (HZI Braunschweig/ MHH) received the Princess of Asturias Prize of 50.000 Euro (CRISPR-Cas9 system). She will be head of MPI Berlin from October 2015.
- **Jan-Henning Klusmann** (Pediatric Hematology and Oncology) was awarded the 10.000 Euro Kind-Philipp-Prize for his work on myeloid leukemia.
- **Yuliia Kiyan Hermann Haller and Boris Chichkov** (Nephrology and Laser Centre Hannover) receive 900.000 Euro by the BMBF to develop a microfluid-chip platform which could replace animal models.
- **Karl Welte** (Molecular Hematopoiesis) was awarded the prestigious Henry M. Stratton medal of the American Society of Hematology.
- **Immo Prinz** (Immunology) is now W2 professor for Mucosal Immunology.
- **Doris Steinemann** (Human Genetics) is now W2 professor for Functional Genomics.

- **Andreas Krueger** (Immunology), is now W2 professor for Regenerative Immunology, but will move to Frankfurt soon.
- **Tobias Cantz** (REBIRTH) was appointed W2 professor for Translational Hepatology and Stem Cell Biology in Gastroenterology, Hepatology and Endocrinology.
- **Hildegard Büning** (former University of Cologne) accepted the position of W2 professor for Infection Biology of Gene transfer at Experimental Hematology.
- **Guntram A. Grassl** (former University of Kiel) was appointed W2 professor for Medical Microbiome Research at Medical Microbiology.
- **Michael Heuser** (Hematology & Oncology) is now a prestigious DFG Heisenberg professor

News from MHH

MHH celebrates its 50th anniversary in 2015. Several activities are organized throughout the year. So, the official celebration ceremony took place on May 17th, 2015 with the prime minister of Lower Saxony Stephan Weil, the vice president of the German Bundestag, as well as the mayor of Hannover. On July 11th all employees were invited to join a big party in Hannover congress centre, four MHH bands were there to entertain us. Great fun! And finally on September 25th/26th MHH is going to host a scientific symposium.

Thomas Thum and Michael Heuser receive altogether 3.3 million Euros for 5 years by the EU in form of a "ERC Consolidator Grant" and "ERC Starting Grant", respectively.

The DFG supports the new Clinical Research group "Graded implants for bone-cord connections" with more than 4 million Euros for 3 years (speaker Andrea Hoffmann).

The SFB 738 "Optimizing conventional and innovative transplants" (speaker Michael Manns) is supported by DFG with 12.5 million Euro for another 4 years.

Intercultural communication

June 2015; together with students from Göttingen





LISA V

At Twincore, August/ September 2015



5th 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 August/September 2015. About 40 students from 26 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 Bernard Malissen, Nadine Cerf-Bensussan and Ronald N. Germain discussed with LISA students. And also, social activities like a guided tour through Hannover city, BBQ, fireworks, GOP theatre were organized. The academy was kindly supported by HBRS, REBIRTH as well as several Biotech companies. The feedback was excellent. Therefore, we are already planning LISA in August/ September 2016.

6th Career day

On March 13th, the sixth 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 (EU office, Miltenyi GmbH). This year a large number of Alumni students working in different fields in industry reported about their careers. Annika Krämer-Kühl works at Boehringer Ingelheim Veterinary Research Center Hannover, Anja Marquardt at Octapharma GmbH Springe, Alexandra Maroz at Sysmex Europe GmbH Hamburg, Sadaf Kasraie at Evotec Hamburg and Michael Düwel is Clinical Research Associate.

"Science is organized knowledge. Wisdom is organized life"

Immanuel Kant (1724-1804)

New Clinical StrucMed program

In July 2015, the new Clinical StrucMed program started (head Heiner Wedemeyer, Gastroenterology). Ten undergraduate medical students work for one year on their doctoral thesis (Dr.med.) in the field of clinical studies in different departments of MHH. It is the first program of this kind in Germany and is supported by the Else-Kröner Fresenius Stiftung with 750.000 Euro for three years.

Fritz Hartmann Lecture

Opening of study year, October 2014

Michael C. Carroll, Pediatrics, Head, Graduate Program in Immunology, Harvard Medical School



Applications

In 2015, we received **974 applications** for our three PhD programs. We selected 60 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

Award of Honorary Degree (Ehrendoktor of MHH)

Prof. Dr. Joachim Kalden, Erlangen
(Member of International Advisory Board)





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.

Large-Scale hematopoietic differentiation of human induced pluripotent stem cells provides granulocytes or macrophages for cell replacement therapies



by Mania Ackermann and Nico Lachmann, Experimental Hematology, REBIRTH, MBH Alumni of PhD program Regenerative Sciences

Hematopoietic *in vitro* differentiation of human pluripotent stem cells (PSCs) such as embryonic stem cells (ESCs) and induced PSCs (iPSCs) holds great promise for disease modeling studies (Figure 1), drug-screening approaches as well as gene and cell therapeutic strategies. In the past, interest has been directed primarily towards the generation of reconstituting hematopoietic stem cells (HSCs), a cell type that is still difficult to generate from PSC sources (1). Recently, however, also mature myeloid cells such as tissue resident macrophages have been described as long-lived cell populations with the potential for local repopulation in case of tissue damage. Therefore, the organotropic transplantation of such cells may allow for new therapeutic scenarios. Along that line, our group has recently demonstrated that a single intra-tracheal transplantation of healthy bone marrow-derived macrophages can rescue the lung phenotype in a mouse model of hereditary pulmonary alveolar proteinosis (PAP), a severe lung disease caused by dysfunction in alveolar macrophage differentiation (2, 3). A potential clinical translation of this approach, however, will require the generation of macrophages in large quantities. This may constitute a problem since CD34⁺ HSCs cannot be obtained repetitively in large numbers, particularly from very young patients. In this situation, autologous iPSCs may represent an attractive therapeutic alternative, as they can be derived from a single biopsy or blood donation and, in contrast to multipotent HSCs, show an unlimited proliferation potential upon *in vitro* cultivation.

To date, most protocols for myeloid differentiation of PSCs *in vitro* utilize a multitude of cytokines or small molecules to mimic the modulation of signaling pathways at various stages of embryonic development. However, many of the factors involved in this process remain ill defined. Therefore, this excessive priming may have unwanted effects on the differentiation or functionality of the desired target cells, hampering their

use in disease modeling or cell- and gene-therapy applications. Thus, the development of simple but robust protocols for generating nonbiased and fully functional hematopoietic cells appears to be highly warranted.

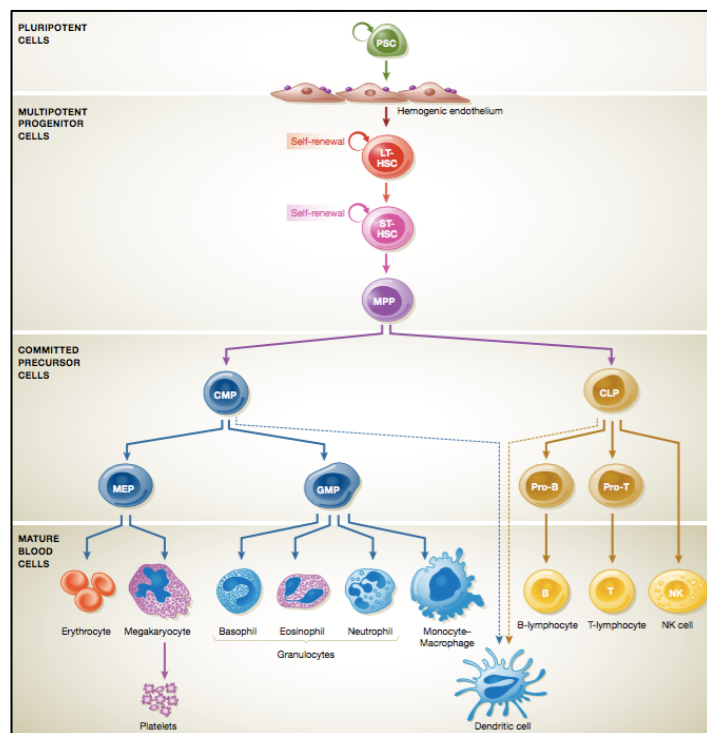


Figure 1: Scheme of hematopoietic development. Multipotent LT-HSCs, with their ability for long-term reconstitution potential, can further differentiate toward ST-HSCs and also MPPs in the bone marrow. Upon subsequent differentiation, MPPs give rise to either CMPs, which have the ability to differentiate into the myeloid lineage, or CLPs, able to generate the lymphoid lineage. Following these committed progenitors, both MEPs and GMPs are able to form all differentiated cells of the myeloid lineage in the bone marrow, whereas CLPs further differentiate into pro-T cells and T cells by positive-negative selection in the thymus. Generation of B cells is ensured also by CLPs in the bone marrow following B-cell transition. Abbreviations: LT, long term; ST, short term; MPP, multipotent progenitor; HSC, hematopoietic stem cell; CMP, common myeloid progenitor; CLP, common lymphoid progenitor; MEP, megakaryocyte erythroid progenitor; GMP, granulocyte macrophage progenitor (1).

Therefore, in cooperation with research groups from Hannover Medical School campus (Julia Skokowa, Gesine Hansen and Sabina Janciauskiene) we developed an innovative protocol that allows for the prolonged and large-scale production of functional monocytes/macrophages from hPSC sources (Figure 2). Here, generation of immature myeloid cells is mediated by an “intermediate myeloid-cell-forming complex (MCFC)” containing CD34⁺ clonogenic progenitor cells, ⇔

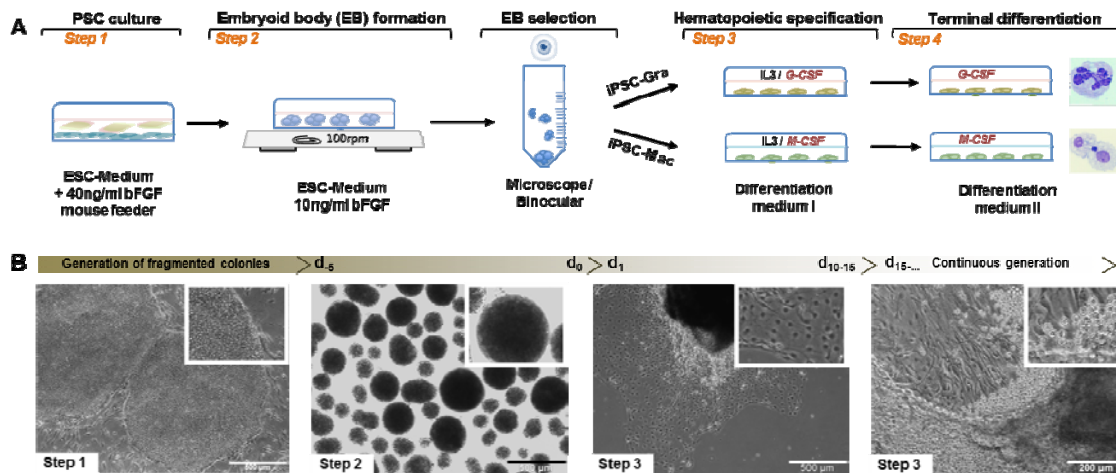


Figure 2: Four-step hematopoietic differentiation protocol of human PSC. (A) Schematic representation of the four-step hematopoietic differentiation protocol. Human PSCs are cultured on irradiated mouse feeder cells (step 1). Formation of embryoid bodies (EBs) is induced by cultivation of fragmented colonies in suspension plates on an orbital shaker (step 2). After 5 days, largest EBs are manually selected under a binocular and further on cultured on adherent plates in differentiation medium I supplemented with either IL-3/G-CSF or IL-3/M-CSF for hematopoietic specification (step 3). From day 10-15 onwards granulocytes or monocyte/macrophages, respectively are generated by the myeloid-cell-forming-complex (MCFC). For terminal differentiation, cells are cultivated further 7 days in differentiation medium II supplemented with G-CSF or M-CSF, respectively, leading to iPSC-MΦ or iPSC-Gra (step 4). (B) Representative light microscopy images of step 1-3 of hematopoietic differentiation (scale bar: 500 μM or 200μM, respectively) (modified from 4).

⇒ which upon continued M-CSF exposure generate differentiated monocyte/ macrophages cells that can be harvested from the supernatant for ≥ 6 months at a quantity of $0.8-2.0 \times 10^6$ cells/week per 3.5 cm well (4). Detailed characterization of mature myeloid cells demonstrated a typical monocyte/ macrophage morphology of iPSC-MΦ by cytopins and expression of CD45, CD11b, CD14, CD163, and CD68. In addition, iPSC-MΦ had the ability to phagocytose latex-coated beads similar to peripheral blood (PB) macrophages polarized to M2 and secreted MCP1, IL6, IL8, and IL10 upon LPS stimulation.

Of note, simple changes in cytokine conditions to IL-3 and G-CSF also allows for the efficient generation of iPSC-Gra following the same steps. iPSC-gra showed typical surface expression of CD45, CD11b, CD16, CD15, CD66b and a differential count containing pro-myelocyte (3%), myelocyte (5%), meta-myelocyte (30%), bands (22%), eosinophils (2%), basophils (1%), and segmented-neutrophils (37%). Moreover, iPSC-gra were able to migrate towards an IL8 or fMLP gradient, form neutrophil extracellular traps, and up-regulate NADPH activity and ROS production upon PMA stimulation to a similar degree as PB granulocytes.

Recent data moreover indicate, that also iPSC-derived DCs, erythrocytes and megakaryocytes can be generated if specific lineage instructive cytokines are used.

In our model production of myeloid cells is driven by a MCFC-resident, $CD34^+$, clonogenic progenitor population. Furthermore, early embryonic events such as endothelial versus hematopoietic specification were recapitulated. In this line, analysis of MCFCs revealed expression of *MIXL1*, *SOX17*, *KDR1*, *GATA2*, and *RUNX1*, as well as early $CD34^+/CD45^-$ cells undergoing transition to a $CD34^+/CD45^+$ and thereafter $CD34^+/CD45^+$ phenotype. The hypothesis of a primitive hematopoietic cell arising from a population with dual (hematopoietic and vascular epithelial) potential was supported by co-staining with VE-cadherin (CD144) and colony formation primarily by $CD34^+/CD45^+/CD144^-$ cells.

In summary, we provide a novel hematopoietic differentiation protocol for iPSCs recapitulating key events of physiologic hematopoiesis and allowing for the prolonged large-scale production of myeloid lineage cells. Thus, this protocol appears particularly suited for cell replacement strategies or to study hematopoietic development.

1. Ackermann M, Liebhaber S, Klusmann JH, Lachmann N. Lost in translation: pluripotent stem cell-derived hematopoiesis. *EMBO Mol Med* 2015 Jul 14.
2. Happle C, Lachmann N, Skuljec J, Wetzke M, Ackermann M, Brenning S, et al. Pulmonary transplantation of macrophage progenitors as effective and long-lasting therapy for hereditary pulmonary alveolar proteinosis. *Sci Transl Med* 2014 Aug 20;6(250):250ra113.
3. Suzuki N, Yamazaki S, Yamaguchi T, Okabe M, Masaki H, Takaki S, Lachmann N, et al. Generation of engraftable hematopoietic stem cells from induced pluripotent stem cells by way of teratoma formation. *Mol Ther* 2013;21(7):1424-31.
4. Lachmann N, Ackermann M, Frenzel E, Liebhaber S, Brenning S, Happle C, et al. Large-scale hematopoietic differentiation of human induced pluripotent stem cells provides granulocytes or macrophages for cell replacement therapies. *Stem Cell Reports* 2015 Feb 10;4(2):282-96.



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 Luis M. Guachalla, Bolivia

PhD program “Molecular Medicine”; final exam June 2009; currently scientist at Arsanis Bioscience, Vienna

Hello from Vienna

Abroad is a term that is easily shaped with time. While ten years ago “abroad” meant outside Bolivia, five years ago changed to outside Germany. Today I get the news from abroad when I read the international section of an Austrian newspaper or the MHH-HBRS Alumni newsletter.

Much has happened in the last five years. I got married with Maria (she was born in upper Austria, and also studied “abroad” in the MHH PhD program); our son Matteo was born (he is now two years old and is a master in shuffling German and Spanish words); and I got to experience the transition from academia to industry.

Vienna is the center of Austria’s Biotech industry. Many companies are located at the Vienna Biocenter in St. Marx, where they are just walking distance from some of the main research organizations like the Institute of Molecular Pathology (IMP), Institute of Molecular Biotechnology (IMBA) and the Max F. Perutz Laboratories (MFPL).

In my position I do research on therapeutic antibodies aiming to treat several infectious diseases. However, contrary to the academic scene, our goal is to develop products rather than to report discoveries. Although these come anyhow side by side as products develop, their publication is not always prioritized (or it is even prevented).

Working conditions in Austria go hand by hand with the reputation of Vienna as a city with one of the highest living standards in the world. Whether you are an outdoor or a museum person, from the Museums Quartier near the city center to the Wienerwald outskirts of the city, Vienna offers you always a place to recreate yourself either after work or during your weekends. And because Austria is a small country, you can easily travel around and discover its many different facets.

And if you want to put in practice your acquired “Hochdeutsch” skills in Austria, sorry to disappoint you, you might have to retrain yourself as Austria has different dialects and accents that are not that easy to get into with an inexperienced ear or vocabulary repertoire. Because a plastic bag is not a “Tüte” but a “Sackerl”, and if you want a “Wiener Würstel” (Viennese sausage) you won’t find it because here it is known as “Frankfurter”. And don’t forget to specify what kind of Kaffee (with accent in the “EE”!) you want, because a Kaffee can be a Schwarzer, a Brauner, a Verlängerter, a Melange, an Einspänner, or a Kaffee verkehrt.

Being acquainted with these peculiarities will just make your stay in Austria even more enjoyable. And I finish by saying “Pfiat eich” from the land of Mozart.



“Science, my lad, is made up of mistakes, but they are mistakes which it is useful to make, because they lead little by little to the truth”

Jules Verne, author (1828-1905)



Final exams

In November 2014, January and June 2015, nineteen students of the PhD program “**Molecular Medicine**” successfully passed their final exams (Anna-Maria Baumann, Abbas Beh-Pajoo, Sagar Bhajana, Sebastian Brenig, Carola Bunse, Emanuele G. Coci, Eileen Frenzel, Sayed Shahabuddin Hoseini, Nidhi Jyotsana, Piyushkumar Kapopara, Houra Loghmani Khouzani, Jan Lohöfener, Daniel Kotlarz, Georgi Manukjan, Salma Pathan-Chhatbar, Girish Rajendraprasad, Shashank Saran, Juliane W. Schott, Lena Stachorski). The next exams are expected for November 13th.

Award of HBRS PhD prize

Oct. 2014; Claudia Bang, “**Molecular Medicine**” & Johannes Kühle, “**Regenerative Sciences**”



Inga Sandrock, Immunology, MHH



Silvia Gramolelli, Virology, MHH

On January 16th, 2015, the final exams in the PhD program “**Regenerative Sciences**” were conducted. The finalists were: Mania Ackermann, Hellen Ahrens, Soumya Badrinath, Oleksandr Gryshkov, Teng Cheong Ha, Henning Kempf, Maksim Klimiankou, Malte Regelin, Bardiah Samareh Abholasani, Maximilian Schieck, and Shanping Wang. The next exams were on July 19th, 2015 by Jamal Al Zu’Bi, Mine Bakar, Jonas Blume, Christina Müller, and Alina Schreder. Next exams are on January 15th, 2016.

The following students of the IRTG 1273 passed their final exams in 2014/15: Juliane Krebes, Stephanie Pfänder, Stephanie Trittel.

The final exams in the PhD programs “**Infection Biology**” and “**DEWIN**” took place on January 23rd, 2015 (Dagmara Bialy, Juliane Mohr, Ulrike Richter, Monika Schniederjans, Andrzej Taranta, Nguyen Dinh Van, and Julia Visic), followed by the next ones on July 10th, 2015 (Silvia Gramolelli, Lyudmila Ivanova, Dino Kocijancic, Jennifer Oduro, Solomon Owusu Sekyere, Paula Perin, Nanthapon Ruangkiattikul, Inga Sandrock, Danim Shin and Nadine Thiel). The next final exams are scheduled for January 22nd, 2016.

Award of PhD Prize

PhD Infection Biology/DEWIN, July 2015



Paula Perin, Experimental Virology, Twincore

Announcements

Marriages: Many of our students have married recently. We know of Sayed Shahab Hoseini, Georgi Manukjan, Kristina Theusner *Congratulations!!*

Children ☺: There are new “HBRS babies” by Rannar Airik, Shahzad Nawaz Syed, Anuhar Shaturvedi, Divya Haridass, Mariam Al Omari, Anna Leibo, Kristina Theusner, Imke Steffen, Swantje Hammerschmidt *Congratulations!!*





Prizes and grants

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

Claudia Bang (Molecular Medicine, exam November 2013) received the prestigious Sir Hans Krebs award of MHH in November 2014.

Matthewos Tessema (Molecular Medicine, exam November 2004) got his 2nd NIH grant. The R01 grant award I just received is a five year ~\$ 3.5 million funding to develop and study the efficacy of topotecan aerosol for personalized therapy of lung cancer.

What is....doing?

Varsha Kumar (Molecular Medicine, exam November 2005)

Dear Susanne, Hope you are doing well! Can you believe it's going to be 15 years since the MD/PhD program started? I will always remember the day you picked me (and my father!) up from the airport and had bought fruits, milk, bread and took us out for dinner that evening. Very nostalgic.

During my time in NYC, apart from several papers that I published, I recently got a first author paper in Immunity and I also got the cover page (April 21st issue). Due to the importance of the work, we also got a press release!

Now, 10 years after getting my PhD, I am once again moving on to the next position. I will be a Scientist (to find a drug against autoimmune disease) in Astra Zeneca....Thank you so much! Varsha

Rannar Airik (Molecular Medicine, exam June 2008)

...I have very warm memories of the time in Germany and a couple of weeks ago I met my PhD supervisor Andreas Kispert in a Conference in Utah.

I am doing great, and I have a few updates for you.

I will start as an Assistant Professor in Pediatrics in the University of Pittsburgh on August 1, 2015. I am very excited about that. I live with my wife Merlin, 2 daughters (7 yrs and 4 yrs), and a son (1 yr) just outside Pittsburgh. I do not know when I will be coming to visit Germany again. With best wishes, Rannar

"No amount of experimentation can ever prove me right; a single experiment can prove me wrong"

Albert Einstein (1879-1955)

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

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; 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; from 2014 self-employed, Bahlmann Life Science Consulting & Interim Management
- 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



Alumni

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 Djojotubroto: 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); from 2014 W3-Mildred-Scheel-Foundation professor

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 Lindpark, 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; from 2015 Scientist II in Medimmune (Astra Zeneca) New York

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

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

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, dept of Surgery, University of Toronto and staff scientist, Li Ka Shing Knowledge Institute, St. Michael's Hospital, 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, from July 2014 assistant professor, Cardiovascular & Metabolic Disorders Program, DUKE-NUS graduate Medical School", Singapore



Alumni

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; now Endokrinologikum Hannover

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; now Memorial Sloan Kettering Cancer Center

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; now Centre of Immune Regulation, Rijkshospital Oslo, Norway

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 Dorseley 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, from August 2015 assistant professor in Pediatrics at the University of Pittsburgh, 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 Shaoying 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.

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 Mpofu-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), now looking for job



Alumni

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

73.) Anurag K. Singh: Gastroenterology, MHH; now Physiological Chemistry, University Hospital Halle, Germany

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

75.) Basant Kumar Thakur: Paediatric Haematology & Oncology, MHH; Instructor, Pediatrics, Weill Cornell Medical College, New York

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; now associate research scientist/ research assistant professor at Yale university, dept of Neurology at the Center for Neuroscience and Regeneration Research, USA

84.) Henoeh 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: Center for Molecular Medicine, Department of Medicine, Karolinska Institute, Stockholm, Sweden; from 2015 research assistant professor in University of Rochester Medical Center, Rochester, NY, USA

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

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: 2012-2014 Institute Foundation Molecular Oncology (IFOM-IEO), in Milan, Italy; from 2014 University of Texas Health Science Center, San Antonio (UTHSCSA), Texas, USA

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: in Starnberg medical writer at CRO in Gauting.

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



Alumni

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 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: University of Kerala as Lecturer for Master program Integrative Biology course.

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: senior physician, Anesthesiology, university hospital Heidelberg

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: from September 2013 babypause; university hospital Jena

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

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

126.) Adrian Schwarzer: PostDoc, Experimental Hematology and Resident, Hematology & Oncology, MHH

127.) Theodros Solomon Tsegaye: Postdoc at the Centers for Disease Control and Prevention (CDC), Atlanta, USA. From 2014-Studying for 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, Hayes UK

132.) Rajkumar Bhayadia: Pediatric Nephrology, MHH

133.) Yarua Jaimes Becerra: Immune Regulation, Deutsches Rheuma-Forschungszentrum (DRFZ), Berlin; Fraunhofer institute for cell therapies and Immunology (Fraunhofer IZI) in Leipzig, since 2013

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; now Manager Vaccine Production at Burgwedel Biotech GmbH / MSD Animal Health

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 CanadaStemcell technologies as Program Associate in Vancouver

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); from 2015 Account Manager at Roche Diagnostics Deutschland

148.) Ayesha Sultan: Institute of Physiology, University of Ulm

149.) Krishna Chaitanya Vallabhaneni: Cancer Institute, UMMC, Jackson, Mississippi, USA



Alumni

year 2009 (final exams 2012/2013)

- 150.) Fareed 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. Assistant professor in Turkey
- 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; IDO institute, Helmholtz Research Centre, Munich
- 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; Gadjah Mada University, Yogyakarta, Indonesia
- 161.) Erum Sughra Naqvi:** India
- 162.) Ramesh Pandey:** Pediatric Hematology & Oncology, MHH; from 2014 SmartAnalyst, Gurgaon, India
- 163.) Ruhi Phaltane:** Experimental Hematology, MHH; from Jan 2015 postdoctoral scientist at Helmholtz Zentrum München at the Institute of Biological and Medical Imaging.
- 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.) Claudia Bang:** IMTTS, MHH
- 170.) Setareh S. Banihosseini:** Vancouver, Canada
- 171.) Anna-Maria Baumann:** Cellular Chemistry, MHH
- 172.) Abbas Beh-Pajoo:** Military Service, Iran
- 173.) Ramachandramouli Budida:** Clinical Immunology and Rheumatology, MHH

174.) Himpriya Chopra: Immunology, MHH; Scientific Project Manager at Abbott India Limited, New Delhi Area, India

175.) Arpita Chowdhury: Anaesthesiology, MHH

176.) Emanuele Coci:

177.) Sebastiaian Goy: Toxicology, MHH

178.) Tran Doan Duy Hai: Physiological Chemistry, MHH

179.) Sayed Shahabuddin Hoseini: Dr Cheung in the Memorial Sloan Kettering Cancer Center in New York

180.) Nidhi Jyotsana: Hematology & Oncology, MHH

181.) Piyush Kapopara: Cardiology and Angiology, MHH; Faculty of Medicine, Center for Blood Research, UBC, Vancouver, Canada

182.) Olga Klimenkova: Molecular Hematopoiesis, MHH; Translational Oncology, Innere Medizin II, University Hospital Tübingen

183.) Georgi Manukjan: Human Genetics, MHH

184.) Michael Radke: Biophysical Chemistry, MHH

185.) Juliane Schott: Experimental Hematology, MHH

186.) Bi-Huei Yang: Experimental Immunology, HZI; University of California, San Diego, USA

187.) Ching-Fang Wu: Nephrology, E-Da hospital, Kaohsiung, Taiwan

year 2011 (final exams 2014/2015)

188.) Sagar Bhayana: Nephrology, MHH

189.) Sebastian Brenning: Experimental Hematology & Oncology, MHH

190.) Carola Bunse: Transfusion Medicine, MHH

191.) Salma Pathan Chhatbar: Biophysical Chemistry, MHH

192.) Eileen Frenzel: Pneumology, MHH

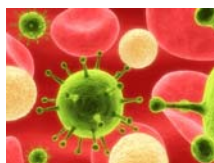
193.) Jan Lohöfener: industry

194.) Houra Loghmani Khouzani: Translational Oncology, Innere Medizin II, University Hospital Tübingen

195.) Girish Rajendraprasad: Biophysical Chemistry, MHH

196.) Shashank Saran: Physiological Chemistry, MHH

197.) Lena Stachorski: Stuttgart



PhD program “Infection Biology”

year 2003 (final exams 2006/2007/2008)

- 1.) **Simon Berberich:** Senior Project Manager & Team Lead Clinical Research Associates, 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:** Servier Forschung und Pharma-Entwicklung GmbH, München
- 5.) **Heidi Imhoff:** Associate Director, Pricing & Reimbursement bei MSD Sharp & Dohme GmbH, Munich
- 6.) **Susanne Lerch:** ICON Clinical Research GmbH, Langen, Clinical Data Analyst
- 7.) **Petra Lühje:** Karolinska University Hospital, Clinical Microbiology, SE
- 8.) **Maren Mönkemeyer:** product management for private label pharmaceutical products Altapharma/Rossmann GmbH, Hannover
- 9.) **Patrick Olbermann:** Zentrum für Infektionsforschung, University of Würzburg
- 10.) **Simone Reinwald:** 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:** Global Medical Advisor Biosimilars, Boehringer Ingelheim (currently maternity leave)
- 15.) **Angelika Hafke/ née Waltermann:** UMG-Laboratory / Department of Clinical Chemistry, University Medical Center Göttingen, University of Göttingen
- 16.) **Claudia Welz:** Bayer HealthCare Animal Health, Monheim, Anthelmintics Research
- 17.) **Ulrike Wittkop:** 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; Cofunder of IXTAL
- 23.) **Julia Heinzmann:** Friedrich-Loeffler-Institute of Farm Animal Genetics in Mariensee
- 24.) **Kay Johswich:** Group leader at the Institute for Hygiene and Microbiology, Würzburg
- 25.) **Janet Krege:** Merck KGaA, Darmstadt; Merck-Millipore, Processing Technologies - Upstream & Monitoring Technologies
- 26.) **Marcin Lyszkiewicz:** Postdoc at Immunology, MHH
- 27.) **Priyanka Narang:** Postdoc at Cancer Sciences Unit, University of Southampton, UK
- 28.) **Julia Pulverer:** Molecular Biotechnology, HZI
- 29.) **Kerstin Radtke:** IC Axon, 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; 2014 training as occupational therapist
- 39.) **Nupur Bhatnagar:** Postdoctoral research associate at Institut Pasteur, Paris, France
- 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



Alumni

- 43.) **Vanessa Jensen:** Cell Biology, TwinCore
- 44.) **Anna Leibo:** GCP-Service International, Bremen, Germany, Clinical Data Manager, (currently maternity leave)
- 45.) **Julia Micklinghoff:** 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, working groups: HGF-MPG Group for Deep Sea Ecology and Technology at Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven and at Max Planck Institute for Marine Microbiology, Bremen
- 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:** Boehringer Ingelheim, "Medical Information Officer"
- 60.) **Sirine El Houry Mignan:** Zürich, Switzerland;
- 61.) **Swantje Hammerschmidt:** Postdoc at Institute of Immunology, MHH
- 62.) **Jan Hänisch:** Postdoc at Institute Pasteur, Paris, France, 02/2015 - 09/2015: Postdoc at the HZI, group of Prof. Theresia Stradal; 10/2015 Lab Head Bioassay Development, Boehringer Ingelheim, Biberach, Germany
- 63.) **Anika Hävemeier:** Clinical Project Manager at Clinical Trial Center Hannover (HCTC)

- 64.) **Sonja Horatzek:** Julius Kühn Institut, Braunschweig; from July 2013 AutoVision GmbH, Wolfsburg
- 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 in the 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:** Consultant at INCONSULT in Duisburg
- 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 Marquardt:** from Nov. 2013 Octapharma in Springe "Head of Quality in Operations"
- 84.) **Georgios-Leandros Moschovakis:** Immunology, MHH
- 85.) **Julia Lieske (née Schneider):** parental leave, 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



Alumni

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: 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: Editor internal communications, Press and Communications Office, HZI

109.) Elisabeth Wende: Deutsches Zentrum für Luft- und Raumfahrt (BMBF), Bonn

110.) Yuri Yakuschkko: Virology, MHH

111.) Christina Tebartz (Ziegler): 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: Xcenda GmbH, Hannover

122.) Yi-Ju Huang: Project coordinator, Miltenyi Biotec GmbH, Cologne

123.) Kathrin Hüging: Medical Scientist Hepatitis, Gilead

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

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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

131.) Julia Visic (née Bortfeld): Bayer HealthCare, Product Supply, Berlin, Biological Quality Control

year 2010 (final exams 2014, 2013)

132.) Patrick Bartholomäus: Dept. of Experimental Infection Research, Twincore

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134.) Friederike Behler-Janbeck: Postdoc at Dept. of Experimental Pneumology, MHH

135.) Dagmara Bialy: Institute of Virology, MHH

136.) Fiordiliegia Casilag: Molecular Bacteriology, Twincore



Alumni

137.) Michael Frahm: Tierarzt at Tierärztliche Klinik für Kleintiere, Wasbek

138.) Kerstin Gnirß: Heinrich-Pette-Institut, Hamburg, Leibnitz-Institut für Experimentelle Virologie, Forschungsgruppe Virale Zoonosen und Adaptation

139.) Julia Heinrich: Dept. of Experimental Infection Research, Twincore

140.) Elham Kashani: Centogene, Rostock

141.) Jennifer Kleine-Albers: Virology, MHH; Hannover: Internship drug safety

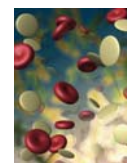
142.) Ulrike Richter: Free Lance Scientific Photographer

143.) Johannes Schwerk: Postdoc at the University of Washington, Seattle, USA

144.) Felix Stahl: Institute of Clinical Chemistry and Laboratory Medicine, University Medical Center Hamburg-Eppendorf

145.) Milas Ugur: Institute of Molecular Medicine, RWTH Aachen

146.) Zuobai Wang: BeiGene (Beijing) Co., Ltd, Beijing, China



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

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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; since January 2015 Consultant at Value Edge Research, Noida, India

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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

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year 2011 (final exams 2014)

147.) Rebecca Geyer: Sanofi-Aventis, Frankfurt am Main, Compliance Expert

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150.) Dino Kocijancic: Postdoc Molecular Immunology, HZI

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152.) Jennifer Dora Odoro: Preclinics GmbH, Potsdam

153.) Solomon Owusu Sekyere: Umeå, Sweden

154.) Paula Perin: Postdoc Department of Experimental Virology, Twincore

155.) Nanthapon Ruangkiattikul: TiHo

156.) Inga Sandrock: Postdoc Institute of Immunology, MHH

157.) Monika Schniederjans: PostDoc. Molecular Bacteriology, HZI

158.) Danim Shin: Australien

159.) Andrzej Taranta: University of Copenhagen at Biotech Research and Innovation Center (BRIC) in Research Group of Professor Andersen

160.) Nadine Thiel: MHH

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Alumni

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

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21.) Nico Lachmann: Postdoc, REBIRTH Unit 1.3 IPSC based Haematopoietic Regeneration, Experimental Hematology, MHH; since March 2015 JRG leader REBIRTH research group „Translational Hematology of Congenital Diseases“, Experimental Hematology, MHH

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

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

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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 Productdevelopment, ContiTech Elastomerbeschichtung GmbH, Hannover, Germany

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

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

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42.) Malte Regelin: since August 2015, Teacher, Hannover

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Alumni

Year 2010 (final exams 2014, 2015)

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50.) Mine Bakar:

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

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53.) Teng Cheong Ha: Postdoc, Experimental Hematology, MHH

54.) Henning Kempf: Postdoc, Leibniz Research Laboratories for Biotechnology and Artificial Organs (LEBAO), MHH

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

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

Year 2011 (final exams 2015)

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65.) Bardia Samareh: Postdoc, Division of Translational Oncology, University of Tuebingen Medical Center II, Tübingen, Germany

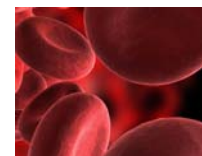
66.) Alina Schreder: Postdoc, Institute of Immunology, MHH

67.) Shangping Wang: from September 2015 Postdoc at the Institute of mechanical engineering at the University of North Carolina at Charlotte (UNCC), North Carolina, USA



PhD program "Epidemiology"

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

year 2006 (final exams 2010/2011/2012)

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3.) Sebastian König: Laboratories Head at Abb Vie

4.) Andreas Jeron: Group Immune regulation, HZI

5.) Mathias Müsken: Institute for Molecular Bacteriology, TWINCORE



Alumni

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13.) **Lynn Kennemann:** babypause

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23.) **Chee Han Lim:** Senior Analyst at Penang Institute Malaysia

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year 2012 (final exams 2015)

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GRK 1441 "Allergic response in lung and skin"

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5.) **Carolyn Pilzner:** Infection Genetics, HZI Braunschweig

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