



October 19th, 2009

4. Newsletter

Dear HBRs Alumni students,

In our fourth HBRs Alumni newsletter we will present last year's developments of Hannover Biomedical Research School (HBRs) as well as those of MHH. HBRs continues to be very successful. We have organized several memorable events like the second HBRs Symposium with members of our International Advisory Board, the second HBRs Master Class on "Mucosal Immunology" at MHH as well as the first lectures and workshops focussing on career perspectives. Furthermore, MHH has received huge amount of support for research as well as for building and construction works. 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 of **three international PhD programs** (the PhD program "Molecular Medicine", the PhD program "Infection Biology" and the PhD program "Regenerative Sciences") and **two DFG-funded research training groups**, one being a joint European program. A structured doctoral program for medical students was also successfully established (**StrucMed**; Dr.med./Dr.med.dent.), as well as two HBRs-associated Master programs "Biomedicine" and "Biochemistry" (start October 2008).

New name for MD/PhD

The **MD/PhD Program** "Molecular Medicine" has recently been renamed (April 2009) to **PhD Program** "Molecular Medicine" in order to avoid confusions with the Anglo-Saxon models. HBRs programs are solely PhD programs (3 years). Students are accepted after their Masters or MD (MBBS).

Orientation weeks

October 2008; at Kröpke (town center)



Currently, the various programs of HBRs host ~200 PhD students. In addition, 41 medical students were accepted for StrucMed as well as 40 new Master students (in two programs) this year. Of the PhD students, about 50% are international and around 25% have a medical background (~50% women).

Applications

In 2009, we received the amazing number of **1300 applications** for our three PhD programs. HBRs seems to be well known now all over the world! ☺ Of course, advertisements in "Nature", "New Scientist", "Laborjournal" and various online job research engines are necessary, too. It was hard, but also interesting work to select our 60 new students among the highly qualified candidates, e.g. altogether 200 interviews were conducted in Hannover and India. Selection processes are now much facilitated by our new online application tool on www.hbrs-application.de



2nd Master Class on Mucosal Immunology

A report on the Master class by Stephan Halle (PhD Infection Biology 2008):

For the second time, HBRS has organized a Master Class – this year focusing on mucosal immunology. On June 6th, 2009, the three invited scientists held their key lectures. Professor Per Brandtzaeg from Oslo University gave an overview of the anatomy of the mucosal immune system. He is one of the pioneers in this field, investigating the immune reactions at mucosal sites since the 1970s – being well known for his work on the biology of Immunoglobulin A. The second speaker, Professor Sidonia Fagarasan from RIKEN Research Center for Allergy and Immunology in Yokohama, summarized her high impact papers on mucosal lymphoid tissue, Immunoglobulin class switching and follicular helper T cell biology. Finally, Professor William Agace from Lund University presented his work on the mechanism of mucosal homing of lymphocytes, mucosal dendritic cell function and the impact of vitamin A metabolites on mucosal 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 mucosal immunology. Interestingly, all major ‘hot topics’ of the field were discussed, not only by the PhD students in the auditorium, but also by the post-docs and principal investigators taking part in the interesting and open discussion within and following the key note lectures.

The same afternoon and the next day, seminar sessions took place in which HBRS-students could present their own projects and discuss it with the invited scientists.

Master Class Mucosal Immunology

June 2009; with Profs. Sidonia Fagarasan, Per Brandtzaeg and William Agace

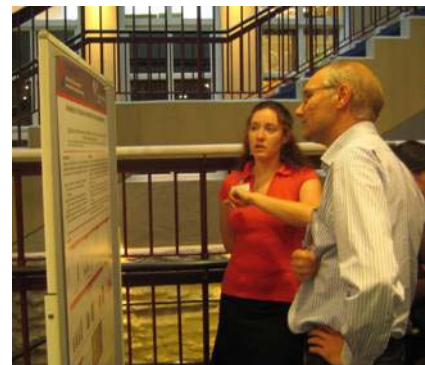


Approximately six to nine students from the different PhD programs took part in one session. Vivid discussions arose most easily if the presented projects came close to the focus of the senior researchers own work. But also less closely related projects were discussed actively, so that it can well be assumed that the HBRS students were able to draw benefit from these central aspects of the Master Class. Personally, I found it very interesting to follow the experienced scientists ‘way of thinking’ by observing their reaction to the presented work.

It was fun to listen to their comments and advice and to find out what interested them the most and what they found most fascinating in a given project. Taken together, I believe that the Master Class Mucosal Immunology was not only fun to take part in but also gave the visiting scientists a positive impression of the research conducted under the organization of HBRS here in Hannover.

Summer School

September 2008; Goslar



1st Summer School “Signaling & Immunity”

The first HBRS summer school on “Signaling and immunity” took place from September 28th-October 2nd, 2008, in Goslar (in the historic hotel “Der Achtermann”). About 20 outstanding key speakers from all over the world participated, among others Cosima Baldari: Siena, Italy; Rudi Beyaert: Flanders Institute for Biotechnology, Ghent, Belgium; James Bliska: University of California-Berkeley, USA; Anne Durandy: INSERM, Necker-Enfants Malades Hospital, Paris, France; Paul Farrel: Imperial College, Faculty of Medicine, London, UK; Jorge Galan: Yale University School of Medicine, USA; Steve Keyse: Cancer Research UK; Angel Nebreda: CNIO, Spanish National Cancer Centre, Madrid,



Spain; Päivi Ojala: Biomedicum Helsinki, Finland; Jeremy Saklatvala: Imperial College London, UK. Key lectures in the morning and early afternoon were followed by lively poster sessions of students as well as small-group tutorials (journal clubs) in the evening. The wonderful familiar and creative atmosphere was last but not least supported by the fantastic food and facilities of the hotel, the beautiful old city (experienced during a guided tour) as well as our trip to the mines “Rammelsberg” including a walk under ground and a special dinner in the old metalworking factory.

"Science is a wonderful thing if one does not have to earn one's living at it."

Albert Einstein (1879-1955)

Career perspectives and development

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

The initiative is kindly supported by means of the EU (EFRE) with 100,000 Euro/year (for the next three years).



Activities 2009

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

The annual “Intercultural Communication Workshop” together with MSc/PhD programs of Göttingen was held in Germerode from May 8th-10th (trainers Alexia and Stephan Petersen).

Fritz Hartmann Lecture
Oktober 2008; Prof. Dr. Jörg Hacker;
Robert Koch Institute Berlin



On June 4th/5th, the second Master class on “Mucosal Immunology” was organized at MHH (see report above).

The next Master class (Virology) on “Persisting and oncogenic viral infections” takes place on November 12th-14th at TwinCore. Remarkably, **for the first time in HBRS this Master class is organized by PhD students for PhD students.** (*more in the next issue!*)

Several courses and lectures in the field of “Career perspectives and development” were offered (see to the left).

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

HBRS orientation weeks start on October 5th. On October 19th the joint opening ceremony in the afternoon will take place. Prof. Georg Holländer (Paediatric Immunology, Basel) will give this year’s “Fritz Hartmann Lecture” on “Lymphostromal crosstalk in the thymus”.



Final exams

In November 2008 and June 2009, twenty students of the PhD program "Molecular Medicine" successfully passed their final exams (Sangeeta Chauhan, Matthias Christgen, Luis M. Guachalla, Harshvardhan, Henoch S. Hong, Khursheed Iqbal, Joanna Jagielska, Gamze Kabalak, Nonsikelelo Mpfu, Fredrick O. Onono, Ananta Paine, Mathias Rhein, Jessica Schwermann, Inga Sörensen, Ujala Srivastava, Tibor Veres, Dong Wang, Alexander Wolf, Fei Zhao, Katja Zscheppang). The next exams are expected for November 20th.

Award of HBRS PhD prize

Oct. 2008; Rannar Airik, PhD Molecular Medicine



The final exams in the PhD program "Infection Biology" took place on January 30th, 2009 (Sara Bartels nee Leschner, Janet Krege, Julia Micklinghoff, Floence Njau, Girish Ramachandran, Melanie Rust, Malgorzata Szczodrak, Milena Tosiek) followed by the next ones on June 26th, 2009 (Mandy Glaß, Lydia Janus, Jessica Janus, Vanessa Jensen, Stefan Pachnicke, Marcel Pietrek, Halina Tegetmeier, Sarvari Velaga, Tetyana Yevsa). The next final exams are scheduled for January 22nd, 2010.

Award of Wilhelm Hirte PhD Prize

Jan. 2009; Florence Njau, PhD Infection Biology



"Genius is one percent inspiration and ninety-nine percent perspiration."

Thomas Alva Edison (1847-1931)

News from MHH

MHH has received the amazing amount of 75.5 Million Euro from third parties for its research activities in 2008. In addition, the recently published DFG ranking (years 2005-2007) announced MHH to be German-wide **number one** regarding extramural funding in relation to the number of professors! Overall, MHH is on position 31 of all universities having raised 65.1 Million Euro from the DFG. We think this is not bad for our small university, being in fact only a medical faculty.....☺

Several DFG initiatives like the SFB 621 "Pathomechanisms of the intestinal mucosa", the SFB 587 "Immune reactions of the lung in infection and allergy" or the research group "Molecular mechanisms of cellular motility" are successfully funded for another period of four, respectively three years.

At the moment, enormous building and reconstruction activities are going on at MHH. For example, a clean room for testing new medical devices will be built with EU support (EFRE, 1 Million Euro). In November 2009, building of a new Paediatric research centre will start. The central animal facility will be expanded and a new interdisciplinary S3 lab will be set up in building J4 from 2010. The Clinics of Dermatology will move to MHH campus in 2011.

Sudden death of Prof. Dr. H. Drexler

On September 13, 2009, Professor Helmut Drexler, at the height of his career, died suddenly when cycling in the outskirts of Hannover. MHH, as well as Cardiology in Europe and worldwide has lost one of its leaders. We are very sad and our thoughts are with his wife and daughter.



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.

Vitamin B3 protects against infections!



by Julia Skokowa, Russia

PhD Molecular Medicine, final exam Nov. 2003; currently Dept. of Molecular Hematopoiesis, Children's Hospital, MHH

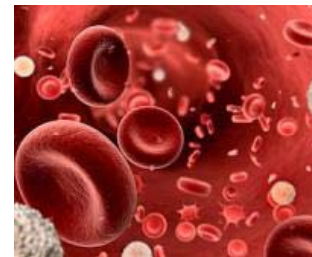
In blood, phagocytes are mainly responsible for fighting against bacteria, and therefore, also against serious infections. Some people do not have sufficient or even lack any of these phagocytes called neutrophil granulocytes in their blood – for example patients suffering from congenital neutropenia or some cancer patients currently undergoing chemotherapy. Patients have to take subcutaneous injections of the growth factor granulocyte colony-stimulating factor G-CSF every day, which stimulates the maturation of hematopoietic stem cells to granulocytes - a rather tedious process for these people.

Interestingly, we have found out that vitamin B3 increases the number of granulocytes as well. And so, most probably, it would be able to completely replace G-CSF, or use the combination of vitamin B3 and G-CSF. Our findings have recently been published in "Nature Medicine" (Volume 15, No. 2, 2009). In addition, "Nature Review Immunology" has described them as "Research Highlight" (Volume 9, pp.148-149, 2009).

What does this imply?

For the first time, we have seen a connection between a growth factor and molecules being responsible for the metabolism in the cell. We are currently investigating a self-stimulating signalling pathway, leading to the production of G-CSF within the cell. Vitamin B3 (nicotinic acid amid, NA) initiates this autoregulatory loop. NA represents the precursor for the next important molecule, the so called nicotinic acid adenine dinucleotide (NAD⁺). NAD⁺ then activates the enzyme Sirtuin-1, which had long been known for attenuating aging processes.

To be precise: We have identified nicotinamide phosphoribosyl-transferase (NAMPT), also known as pre-B cell colony enhancing factor (PBEF), as an essential enzyme mediating granulocyte colony-stimulating factor (G-CSF)-triggered granulopoiesis in healthy individuals and in individuals with severe congenital neutropenia. Intracellular NAMPT and NAD⁺ amounts in myeloid cells, as well as plasma NAMPT and NAD⁺ levels, were increased by G-CSF treatment of both healthy volunteers and individuals with congenital neutropenia. NAMPT administered both extracellularly and intracellularly induced granulocytic differentiation of CD34⁺ hematopoietic progenitor cells and of the promyelocytic leukemia cell line HL-60. Treatment of healthy individuals with high doses of vitamin B3 (nicotinamide), a substrate of NAMPT, induced neutrophilic granulocyte differentiation. The molecular events triggered by NAMPT include NAD⁺-dependent sirtuin-1 activation, subsequent induction of CCAAT/enhancer binding protein-alpha and CCAAT/enhancer binding protein-beta, and, ultimately, upregulation of G-CSF synthesis and G-CSF receptor expression. G-CSF, in turn, further increases NAMPT levels. These results reveal a decisive role of the NAD⁺ metabolic pathway in G-CSF-triggered myelopoiesis.



Neutrophil Granulocytes (in white)

So, our experiments have shown that by giving vitamin B3 a stem cell very quickly develops into a granulocyte. We think that there is great potential for therapy of diseases in which low numbers of granulocytes play a role.

"When I am working on a problem, I never think about beauty. I only think about how to solve the problem. But when I have finished, if the solution is not beautiful, I know it is wrong!"

Buckminster Fuller (1895-1983)



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.



Petra L  thje, Germany

PhD program "Infection Biology"; final exam February 2007; currently Microbiology, Tumor and Cell Biology (MTC), Karolinska Institute, Stockholm, Sweden

Postdoc in Sweden

Since March 2007, I have been Postdoc in the Annelie Brauner group at Clinical Microbiology, Department of Microbiology, Tumor and Cell Biology (MTC) at Karolinska Institute in Stockholm, Sweden. We are a quite small group. In addition to our group leader, there are one PhD student and a second Postdoc as permanent members of the group. There are, however, several students and guests from abroad coming and going, which creates a very lively atmosphere. At KI, most of the foreign Postdocs are paid by stipends. In addition to the lack of social security, such contracts are limited to 6 month. Although they are prolonged regularly, this situation brings of course some uncertainty.



Since our group is located in the clinical lab, I am surrounded mainly by Swedish colleagues – not a typical situation at KI, where there are a lot of foreigners. In this situation, I have learned a lot about myself (and perhaps German characteristics in general), and discovered differences I have never even thought about. Interestingly, most impressions are shared between almost all foreigners, independent of their nationality. I learned to know a very friendly interaction at the working place; everybody is very helpful and patient. No stress, no loud words,

and that efficiently keeps yourself in a good mood. Everybody's happiness is of high priority here. Meanwhile I have realized that there are drawbacks of this strategy, too. I find it difficult to address problems without embarrassing my Swedish colleagues. Discussions never end in quarrelling – but on the other hand do not always result in a decision, but problems do not simply disappear. Without agreement on the strategy, some procedures move on very slowly.

The Swedish public life is highly organized. In the lab, however, I often miss some sort of organization, which might partly be due to a lack of technicians. Sometimes, I long for the strict technicians in my previous group ...

The working atmosphere is very relaxed. Competition and pressure seem not to exist. However, I think this is partly based on a different way of communication. I was used to the rather direct German way. Here, in the beginning everything sounded just positive to me. Over the time, I have learned to sense that there are differences in the positively sounding commentaries, some are actually meant to express negative criticism. Likewise to never express displeasedness directly, expectations are hardly verbalized. Fortunately, I have so far not experienced what happens when these (unspoken) expectations are not fulfilled. However, for my own sake I feel the pressure to reach something anyway – which might appear harder among apparently non-stressed Swedish colleagues.

In summary, I still enjoy working here. It is a valuable experience to face the difficulties to stay and work in a foreign country (and even Sweden is different enough from Germany to learn that!). I am sure that I will miss a lot when I will be back in Germany.



Stockholm



ZIB receives 900.000 Euro

We are very happy to announce that Lower Saxony will continue supporting ZIB (the PhD program "Infection Biology") with 15 stipends in the Georg-Christoph-Lichtenberg program from October 2010. This amounts to a total sum of 900.000 Euro. Stipends will be given to candidates of the next application round.

Consultation hours for Postdocs

PhD students coming to MHH as members of a PhD program can always address their program coordinator concerning all questions regarding their start at MHH as well as their everyday life in a new town, or possibly a new country.

We offer a similar service to Postdocs (or junior group leaders) now who are new at MHH, either in a REBIRTH research group or in a research group of a HBRS faculty member; we meaning Dr. Susanne Kruse and Dr. Daniela Pelz.

As Postdocs usually arrive at any time throughout the year, we set up a weekly consultation hour. We offer advice to new scientific staff in all matters regarding life at MHH, in Hannover, and, if needed, in Germany. This advice is offered in addition to that offered by the host departments, e.g. we will unfortunately not be able to manage the employment at MHH.

Daniela Pelz is available on Tuesdays from 4 to 5 pm (Hans-Borst-Center, K11-HBZ, level 02, room 6070). Susanne Kruse is available on Wednesdays from 10 to 11 am (I4, level 01, room 1100).

Announcements

Marriages: Many of our students have married recently. We know of Sara Bartels née Leschner, Susanne Lerch, Maike Diddens-de Buhr, Leena Srivastava, Manvendra K. Singh, and Anastassia Vertii & Shashi Kant. *Congratulations!!*

Children ☺: There are new "HBRS babies" by Sukhada & Anuhar, Julia Freise, Li Yijiang, Tibor Veres, Janet Kregge, Huan Sun *Congratulations!!*



Prizes

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

Rannar Airik (PhD "Molecular Medicine", exam June 2008) received the HBRS PhD prize 2008 (1.000,- Euro).

Florence Njau (PhD Infection Biology, exam January 2009) received the Wilhelm-Hirte PhD prize by ZIB (1.000,- Euro).

Halina Tegetmeyer (PhD Infection Biology, exam June 2009) received the BD Biosciences PhD Prize by ZIB (1.000,- Euro).

Award of BD Biosciences PhD Prize June 2009; Halina Tegetmeyer, PhD Infection Biology



10 years of PhD "Molecular Medicine" in 2010!

Please note that next year our MD/PhD program, now renamed PhD program "Molecular Medicine" will celebrate its 10th anniversary. We would be happy if you would consider taking part in the big celebration ceremony, most probably on October 18th, 2010.

A short history of medicine (a grain of truth...☺)

"I have a sore throat."

2000 BC: "Eat this root."

1200 AD: "That root is heathen, say this prayer."

1500 AD: "That prayer is superstition, drink this elixir."

1800 AD: "That elixir is snake oil, take this pill."

1900 AD: "That pill is ineffective, take this antibiotic."

2000 AD: "That antibiotic is artificial. Here, why don't you eat this root?"



What is....doing?

Georg Bohn (PhD Molecular Medicine 2002):

Georg received his “specialization” in Paediatrics from MHH in October 2008. From February to August 2009, he joined “Ärzte ohne Grenzen” (Médecins sans Frontières – MSF) to work as doctor in charge in Niger, Africa. There the Spanish/ Greek MSF section is organizing a program of nutrition for extremely malnourished children as well as a Paediatrics station. In addition, Georg was responsible for two big vaccination campaigns (7.000 children against measles, 90.000 people against meningitis). Now Georg moved to London to work as Paediatric Haematology Lecturer at Imperial College for the next four years. This lectureship is financed by the Leukaemia Research Fund (UK): 75% for research in paediatric leukaemia + 25% clinical work. Georg is enjoying life in London and is looking forward to being a Haemato-Oncologist in the end.



Message from....

Maike Diddens-de Buhr (PhD Infection Biology 2004): Apart from my wedding last year (2008), which of course was wonderful, I now have a postdoc position at the University of Münster for the next three years (Institute for Evolution and Biodiversity, Department of Animal Evolutionary Ecology, to be precise). My project deals with the co-evolution between hosts and parasites, the evolution of innate immunity, phenotypic plasticity in innate immunity and immune memory. It's exactly what I wished to do. Thus I find this project very exciting and I am glad to work in a stimulating and surprisingly international atmosphere. It is lovely to work there. A dream has come true! But I also dream of going abroad some time in the future...Maike

Leena Srivastava (PhD Molecular Medicine 2004): I am currently in the US (Georgia) and pursuing my postdoc from Georgia University. This is my second postdoc. My first one was in New Jersey (University of Medicine and Dentistry New Jersey). We have submitted two papers from this place. Research went really well.

I got married in March 2008, and my husband and I both are together now in the US at the same place (Georgia). Say my hello to all old and new students in MHH. I will plan for Europe and will definitely visit MHH....Leena

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

Current list of HBRS Alumni students



PhD program “Molecular Medicine”

year 2000 (final exams 2003)

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

year 2001 (final exams 2004/2005)

- 8.) A. Wahid Ansari:** Immunology, Imperial College London, UK
- 9.) Ferdinand Bahlmann:** Nephrology, MHH; Epoplus GmbH; M.Sc.P.M. Duisburg; Research coordinator, Medical Clinics IV, University Clinics, Homburg/Saar
- 10.) Asha Balakrishnan:** Molecular Oncology, Institute for Cancer Research and Treatment (IRCC), Turin, Italy; from 2007 Medicine, UCSF, San Francisco, USA
- 11.) Christian Bernreuther:** Neuropathology, University Clinics Hamburg-Eppendorf
- 12.) Frank Bollig:** Molecular Genetics, Institute for Molecular Biotechnology (IMB), Jena; from 2009 Clinical Chemistry, MHH



Alumni

13.) Marc H. Dahlke: Liver Stem Cell Group, Surgery, Regensburg; 1 year Sydney, AUS; Surgery Regensburg, (Habilitation), “Oberarzt” (senior physician); International Surgical Oncology Fellow, Memorial Sloan Kettering Cancer Center, New York City, USA

14.) Meta Djojotubroto: Gene Therapy & Stem Cell Biology, Jules Gonin Eye Hospital, Lausanne, Switzerland

15.) Julia Freise: Rheumatology; from 2006 Pneumology, MHH

16.) Christoph Happel: Paediatric Cardiology, MHH

17.) Vladimira Jakubcakova: Genes & Behaviour, Max-Planck-Institute for Biophysical Chemistry, Göttingen; from 2007 MPI Psychiatry Munich

18.) Yijiang Li: Thoracic & Cardiovascular Surgery, MHH

19.) Jianyun Liu: Beijing (V.R China)

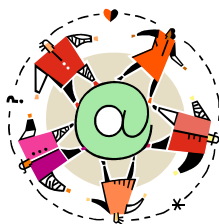
20.) Tom Lüdde: EMBL Mouse Biology Unit, Monterotondo, Italy; from 2007 Medical Clinics III, Aachen (Habilitation)

21.) Ebru Serinsöz-Pfeiffer: mother of one child; Associate Professor of Pathology, Mersin, Turkey

22.) Frank Tacke: Mount Sinai School of Medicine New York; from 2006 Medical Clinics III, Aachen (Habilitation), “Oberarzt” (senior physician)

23.) Mathewos Tessema: Pathology, CRF 225, New Mexico, HSC, USA

24.) Sonja Werwitzke: Haematology & Oncology, MHH



29.) Shashi Kant: Biochemistry & Molecular Pharmacology, Worcester, Massachusetts, USA

30.) Claudia Karacsonyi: Cell Biology, NHLBI, NIH, Bethesda, USA; from 2009 Drug development and Discovery, Italian Institute of Technology, Genoa, IT

31.) Varsha Kumar: Theodor Kocher Institute, Bern, Switzerland

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

33.) Anika Hoffmann (Meyerholz): Paediatric Pneumology, MHH

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

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

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

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

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

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

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

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

year 2002 (final exams 2005/2006/2007)

25.) Diya Abraham: Genes & Behaviour, Max-Planck-Institute for Biophysical Chemistry, Göttingen; from 2008 Dept. of Neurology, UCSF, San Francisco, USA

26.) Syed Raza Ali: Pharmacology, University of California, San Diego, USA

27.) Georg Bohn: Paediatrics, MHH, specialist; 7 months Médecins sans Frontières-MSF in Niger; from 09/2009 Paediatric Haematology Lectureship, Imperial College London

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

End of summer term
Relax after last lecture, 2009

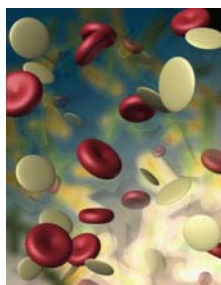




Alumni

year 2003 (final exams 2006/2007/2008)

- 42.) **Khaled Alkharsah:** Virology, MHH
- 42.) **Tammy Bohn (Chang):** Grenoble, France, from 08/2009 London
- 43.) **Anuhar Chaturvedi:** Lund, Sweden, from 2007 Haematology & Oncology, Marburg, Germany
- 44.) **Dorothea Dijkstra:** Dermatology, MHH; from 2008 Fraunhofer Institute ITEM Hannover
- 45.) **Dorothea Gadzicki:** Junior professor, Pathology, MHH
- 46.) **Jaba Gamrekelashvili:** Gastroenterology, MHH (TwinCore)
- 47.) **Arnab Ghosh:** Paediatric Haematology & Oncology, MHH; from 2007 Memorial Sloan Kettering Institute, New York, USA
- 48.) **Shipra Gupta:** Pharmacology, Experimental and Clinical Peptide Research; from 2007 Transplant Immunology, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, USA
- 49.) **Eric Hesse:** Harvard Medical School, USA
- 50.) **Kumaravelu Jagavelu:** Mayo Clinic, GI Research unit, Rochester MN, USA
- 51.) **Andri Pramono:** mother, Bonn
- 52.) **Rahul Purwar:** Dermatology, MHH; from 2007 Dermatology, Harvard Medical School, Boston, USA
- 53.) **Bishnudeo Roy:** HZI Braunschweig
- 54.) **Gustavo Salguero Lopez:** Haematology & Oncology, MHH
- 55.) **Tibor Veres:** Fraunhofer Institute ITEM
- 56.) **Anastassia Vertii:** UMASS Doxsey Lab, Worcester, Massachusetts, USA



year 2004 (final exams 2007/2008/2009)

- 57.) **Rannar Airik:** Molecular Biology, MHH; from 08/2009 Paediatrics & Human Genetics, Ann Arbor, Michigan, USA
- 58.) **Abdul Mannan Baru:** from 2008 Albert Einstein College of Medicine, New York, USA; from 2009 at TwinCore Hannover
- 59.) **Sangeeta Chauhan:** Gastroenterology, MHH
- 60.) **Mingmin Chen:** Gastroenterology, MHH

- 61.) **Prajeeth C.K.:** Clinical Microbiology & Immunology & Hygiene, University Clinics Erlangen
- 62.) **Kursheed Iqbal:** FAL Mariensee
- 63.) **Joanna Jagielska:** REBIRTH MHH
- 64.) **Adan Chari Jirmo:** Clinic for Immunology and Rheumatology, MHH
- 65.) **Gamze Kabalak:** just returned from UK (worked there for big pharmacy group)
- 66.) **Nonsikelelo Mpfu:** Gastroenterology, MHH
- 67.) **Frederick Onono:** Hematology/ Oncology, MHH
- 68.) **Erkhembulgan Purevdorj:** Senior Lecturer of Genetics, Health Science University, Mongolia
- 69.) **Aaheli Choudhury Roy:** Gastroenterology/ REBIRTH, MHH
- 70.) **Jessica Schwermann:** Physiological Chemistry, MHH
- 71.) **Meera Shah:** Burnham Institute for Medical Research, La Jolla, USA
- 72.) **Anurag K. Singh:** Gastroenterology, MHH
- 73.) **Leena Srivastava:** Postdoc New Jersey, USA; second Postdoc Georgia University, USA
- 74.) **Basant Thakur:** Paediatric Haematology & Oncology, MHH
- 75.) **Murat Ünal:** Paediatric Haematology & Oncology, MHH; soon Boston USA
- 76.) **Fei Zhao:** TwinCore Hannover

year 2005 (final exams 2008/2009)

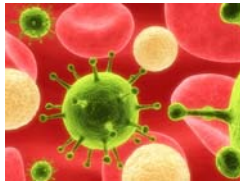
- 77.) **Matthias Christgen:** Pathology, MHH
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- 79.) **Harshvardhan:** University of Ulm
- 80.) **Henoch Hong:** Clinic for Immunology and Rheumatology MHH
- 81.) **Ananta Paine:** Transfusion Medicine MHH
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- 87.) **Katja Zscheppang:** Paediatrics MHH

Money won't buy happiness,
but it will pay the salaries of
a huge RESEARCH staff
to study the problem.

*Bill Vaughan (1915-1977, American Author,
Journalist)*



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PhD program "Infection Biology"

year 2003 (final exams 2006/2007/2008)

- 1.) **Simon Berberich:** Immunology, MHH
- 2.) **Tanja Bosse:** HZI Braunschweig; from Sept. 2007 Virology MHH
- 3.) **Eva Gellermann/née Brüning:** Virology, MHH; from 2008 dental prosthetics (CrossBIT), MHH
- 4.) **Michael Düwel:** GSF - National Research Center for Environment and Health, Munich, Germany
- 5.) **Heidi Imhoff:** Essex Pharma GmbH, Munich; Medical Science Liaison, Immunology, Schering-Plough Inc., Vancouver, Canada
- 6.) **Susanne Lerch:** ICON Clinical Research GmbH, Frankfurt, Germany; now ICON Clinical Research (UK) PLC, Marlow, UK
- 7.) **Petra Lühje:** Microbiology, Tumor and Cell Biology (MTC), Karolinska Institute, Stockholm, SE
- 8.) **Maren Mönkemeyer:** Clinical Immunology, MHH; from Oct. 2007 QUISIANA Pharma, Hannover
- 9.) **Patrick Olbermann:** Med. Microbiology, MHH
- 10.) **Simone Reinwald:** Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia
- 11.) **Melanie Rust:** Medical Microbiology MHH
- 12.) **Sebastian Seth:** Immunology, MHH
- 13.) **Jessica Thalmann:** Nephrology, MHH
- 14.) **Kristina Theusner:** Virology, MHH
- 15.) **Angelika Waltermann:** University of Hannover
- 16.) **Claudia Welz:** TiHo, Hannover
- 17.) **Ulrike Wittkopp:** Nephrology, MHH; from 2008 QUISIANA Pharma, Hannover
- 18.) **Tim Worbs:** Immunology, MHH

year 2004 (final exams 2007/2008/2009)

- 19.) **Vanessa Barroso:** Microbial Pathogenicity, HZI, Braunschweig
- 20.) **Maike Diddens-de Buhr:** Central Animal Laboratory, MHH; from 2009 Animal Evolutionary Ecology, University of Münster
- 21.) **Nicolas Fasnacht:** Experimental Immunology, HZI, Braunschweig; from 2009 EPFL Lausanne
- 22.) **Davide Ferraris:** University of Eastern Piedmont, Novara, Italy

- 23.) **Julia Heinzmann:** Friedrich-Loeffler-Institute of Farm Animal Genetics in Mariensee
- 24.) **Kay Johswich:** Med. Microbiology, MHH
- 25.) **Janet Krege:** Immunology MHH
- 26.) **Marcin Lyszkiewicz:** Immunology, MHH
- 27.) **Priyanka Narang:** University of York, UK
- 28.) **Julia Pulverer:** Molecular Biotechnology, HZI Braunschweig
- 29.) **Kerstin Radtke:** Virology, MHH
- 30.) **Peter Reichardt:** Institute of Molecular and Clinical Immunology, University of Magdeburg
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- 32.) **Sven-Christian Sensken:** Immunology, MHH
- 33.) **Nuno Viegas:** Molecular Immunology, HZI, Braunschweig
- 34.) **Stefanie Weiß:** Wolfson Institute of Biomedical Research, University College London, UK
- 35.) **Caroline Zaoui:** Cell Biology, HZI, Braunschweig
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year 2005 (final exams 2009)

- 37.) **Sara Bartels (Leschner):** Molecular Immunology, HZI, Braunschweig
- 38.) **Mandy Glaß:** Virology, MHH
- 39.) **Lydia Janus:** Central Animal Laboratory, MHH
- 40.) **Jessica Janus:** Virology, MHH
- 41.) **Vanessa Jensen:** Cell Biology, TwinCore
- 42.) **Julia Micklinghoff:** Medical Microbiology MHH
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