

MHH

Medizinische Hochschule  
Hannover

# Spotlight on the MHH



# Study programmes at MHH

More than 3,000 young people are currently enrolled at MHH: in **medicine or dentistry**, as undergraduates or in a doctoral or other advanced degree programme. In winter semester 2005/2006, a new **medical curriculum** was established: "**Hannibal**", an acronym for the Hannover Medical School's integrated, professionally oriented, adaptive training programme. All coursework focuses on practical applications. From the very first week, students are in direct contact with patients. Each year, three ten-week modules covering the same subject matters are offered in parallel (from October to December, January to March, and April to July). Students are assigned to three groups, so that only 90 are enrolled in a module at a given time. The impulse and essential ideas for this new curriculum were promoted by committed students and teachers of the committee for study affairs (chairman Professor Hermann Haller).

In order to recruit and keep the best young scientists, it is necessary to offer something special. Already in 2003, MHH founded its **Hannover Biomedical Research School** (HBRS). This graduate school represents an "umbrella organization" for existing and future structured postgraduate programmes [mainly PhD programmes, Research Training Groups (GKs)]. It co-ordinates teaching and ensures excellent training in high quality research laboratories, furthers motivation, and actively encourages integration and interdisciplinary exchange between students and young researchers from both medical and life science backgrounds.

A joint HBRS curriculum was established in 2004, and the excellent quality of the various training programmes was confirmed in 2005, when the DAAD acclaimed the MHH's MD/PhD programme Molecular Medicine as "Best-practise programme". Our structured training programmes for young scientists are clearly a success. In addition, HBRS was very successful in the national Excellence Initiative and will receive financial support through to 2011 by the federal and state governments. In 2006, MHH was the first German school of medicine to establish a so called "**patients' university**". Structured teaching activities convey current scientific knowledge and research results not only to specialists and experts, but also to the general public.



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Current enrolments: 2,988

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Study programmes:

- Human medicine
- Dentistry
- Biology<sup>1</sup>
- Biochemistry<sup>1</sup>
- Public Health<sup>2</sup>
- Master of Biomedicine

Hannover Biomedical Research School:

- MD/PhD Programme Molecular Medicine
- PhD Programme Infection Biology
- PhD Programme Regenerative Sciences
- StrucMed – structured training for doctoral candidates
- 3 German Research Foundation (DFG) Research Training Groups (GKs) (of which are 2 European DFG GKs )

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<sup>1</sup> In cooperation with the Leibniz University Hannover and the University of Veterinary Medicine Hannover, Foundation

<sup>2</sup> Supplemental course of study

# Occupational Training

MHH provides occupational training for nearly 500 young people in its schools of healthcare professions:

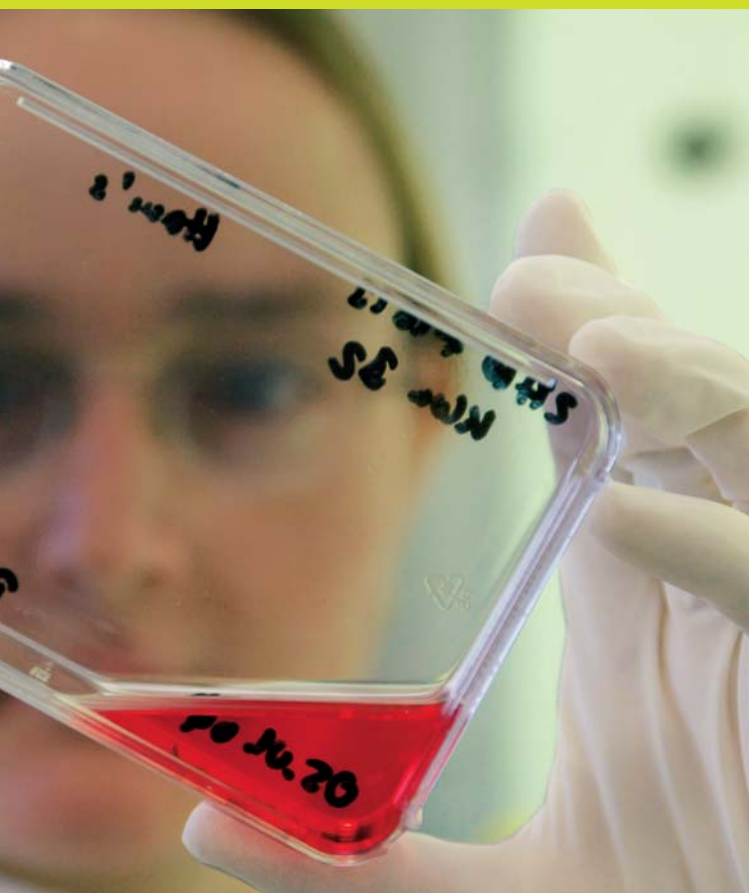
- School of Patient Care and Paediatric Care
- School of Nutrition Assistants
- School of Logopaediatrics
- School of Medical Laboratory Technology
- School of Medical Radiology Technology

Furthermore, up to 60 apprentices receive training at MHH to learn a wide range of professions regulated by the medical association, such as physician's assistant, medical data specialist, animal handler, dental technician and more.



# Continuing Education

MHH is exceptionally committed to the continuing education of physicians. Today's good medical practice requires more of physicians than the ability to examine patients, prescribe drugs and perform operations. It is becoming increasingly important that hospitals and medical practices work economically. The Hannover School of Health Management Ltd. is an independent unit founded by MHH. It offers a modular training programme including an MBA in cooperation with the Universities of Applied Sciences in Hannover and Neu-Ulm.



Unity in what is necessary,  
Liberty in case of doubt,  
Charity in all things.

Unitas in necessariis  
Libertas in dubiis  
Caritas in omnibus

Academic mission statement  
of Hannover Medical School

## International Relations

MHH is internationally renowned for excellence in patient care, research and teaching. There is great demand by students, physicians and scientists from all over the world to come to Hannover for study, work and research. International cooperations and networks with other universities and clinics worldwide are constantly being expanded. Furthermore, MHH organises internships and foreign exchange programmes for its students. People from more than 40 countries study, work and do research at MHH. Thus it is one of the most international working places in the capital of Lower Saxony.



## The Campus

The campus of MHH in Hannover-Gross Buchholz covers 400,000 square meters – more than 50 football fields. The centre of the campus represent the main Clinics, surrounded by the Clinics for Paediatrics, Gynaecology, Oral and Dental Medicine, the Transplant Research Centre and other research and teaching facilities, as well as the library, residential and administrative buildings, and sports facilities. The Department of Dermatology and Venerology is temporarily housed in the Clinics for Dermatology in Hannover-Linden, while the Department of Orthopaediatrics is permanently located in the Annastift hospital.

# Excellence in Medicine

Hannover Medical School (MHH) is one of Germany's leading universities in research, patient care and teaching. With its concentrated support of specialised research areas, it has become one of the best university clinics in the country. The outstanding **research** conducted at Germany's only institution of higher education exclusively devoted to medicine has been clearly recognised within the framework of the Excellence Initiative supported by the federal and state governments. MHH will receive more than 40 million euros funding by 2011 as the the best university clinics in the country. Excellence in **teaching** is reflected by the fact that its graduate school will also receive five million euros support for the next five years. The number of student's applications is proof that the exemplary training programme of medicine is highly attractive. MHH is known for its excellence in **patient care**: medical research of the highest quality is closely linked with the latest diagnostic procedures and therapies.



# The Clinic

Every year, more than 46,000 inpatients as well as over 143,000 outpatients are treated at the MHH, which provides full range of treatment and care of highest quality. In no other university clinics in Germany are patients with such severe conditions treated as they are in the 18 medical centres and 75 departments on the MHH campus. The MHH is also a pioneer in transplant medicine and is one of the world's leading transplant centres. More than 450 organ transplants are performed yearly, more than anywhere else in Germany. MHH is the world's leader in lung transplants. In addition, 140 bone marrow and blood stem cell transplants are handled every year. Moreover, MHH has a leading position in cochlear implants and electronic inner ear stimulating devices. Until now, 3,000 patients (250 per year) have been fitted with one of these devices, enabling them to hear again – or for the first time.



“Interdisciplinary cooperation” is the major aim of MHH: In the Centre for Tumour, Breast, Otiological and Rheumatic Disease and in the interdisciplinary Centre for Facial Malformations, specialists from various departments work closely together while also maintaining close contact to practicing physicians and rehab facilities. This type of integrated care in cooperation with external partners is becoming more and more important. The goal is clear: to provide every patient optimal treatment and care.



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Inpatients: 47,888

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Outpatients: 302,959

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Emergencies: 29,731

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Average stay in hospital: 8.57 days

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Stations: 90

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Statutory number of beds: 1,397

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Organ transplants: 486, including

- 200 kidney
- 151 liver
- 101 lung
- 34 heart transplants

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Bone marrow transplants: 122

Cochlear implants: 250

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All figures for 2006

## Major Areas of Clinical Specialisation:

- Transplant Medicine
- Infection Medicine and Immunology
- Cardiac and Vascular Medicine
- Hearing Systems (cochlear implants)
- Laryngology, Rhinology and Otiology
- Gastroenterology, Hepatology
- Oncology (cancer therapy for children and adults)
- Pneumology
- Neurology and Neurosurgery
- Emergency Surgery and Orthopaedics
- Plastic, Hand and Reconstructive Surgery, including Burn Unit
- Urology
- Obstetrics, neonatal Medicine and Gynaecology
- Ophthalmology
- Oral, Orthodontic and Maxillofacial Surgery, including Facial Reconstruction
- Dentistry

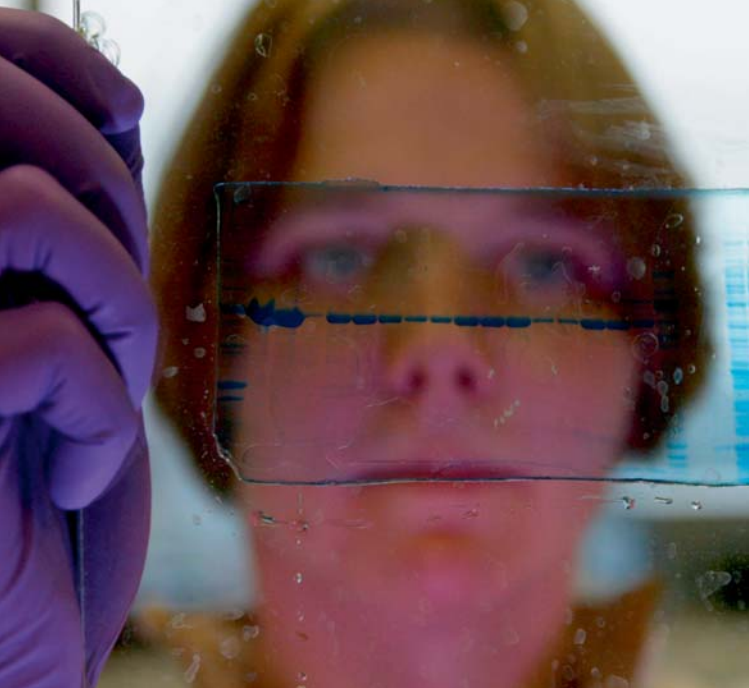


# Research

With its more than 1,200 scientists, 25,000 square meters of laboratory space, a Research Cluster for Regenerative Medicine as part of the federal and state Excellence Initiative, six DFG Collaborative Research Centres (SFGs), five clinical Research Groups and three DFG Research Groups, one Research Training Group (GK), two European GKs and three Federal Ministry for Education and Research Competence Networks for Rheumatic Diseases, Hepatitis and Pneumonias, a Competence Centre for Cardiovascular Implants, and hundreds of other research projects, MHH is one of the most active research institutions of higher education in Germany. On the basis of the number of German Research Foundation (DFG) projects awarded to its professors, MHH was ranked number two among all German universities by the DFG, from which it received nearly 330,000 euros in 2006. Overall, MHH is the number one German medical faculty regarding extramural funding in relation to the number of professors, comprising a total of 51.6 million euros.

The Excellence Initiative of the federal and state governments pointed out the vast research potential present in the Capital of Lower Saxony by providing start-up funding through 2011 for its "Rebirth" Excellence Cluster, making the MHH the nation's leader in regenerative medicine. This cluster is based on the work of outstanding research groups, particularly those dedicated to stem cell research and culturing of regenerative heart, liver and blood tissue. The transplant research centre was established in 2004, and a new facility, the "Hans Borst Research Centre for Regenerative Medicine", will be operational in 2008.

MHH is also a leader in the research of Infection and Immunology, cooperating with the Helmholtz Centre for Infection Research in Braunschweig. Twincore, a new research facility, was established directly adjacent to the MHH campus. Outstanding basic research by scientists from Braunschweig in combination with the excellent clinical and basic research at the MHH will guarantee the success of this new facility with 1,800 square meters of research space and four new professorships.



## Major Research Foci

- Transplant and Stem cell research
- Regenerative Medicine
- Infection Biology and Immunology
- Biomedical Technology

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Staff (full-time): 6,335.6

- Medical services: 1,163.9
- Research: 324.4
- Grant funded positions: 547.7

Total external funding: 51.6 million euros

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All figures for 2006

**Hannover Medical School**  
**Medizinische Hochschule Hannover**  
Carl-Neuberg-Strasse 1  
30625 Hannover, Germany  
Telephone: +49 (0)511 532-0 (reception)  
Telefax: +49 (0)511 532-5550 (reception)  
www.mh-hannover.de

**Members of the Presidium**  
Division of Research and Teaching  
Professor Dr. med. Dieter Bitter-Suermann  
Division of Patient Care  
Dr. med. Andreas Tecklenburg  
Division of Business Management and  
Administration  
Holger Baumann, Diplomate Economist  
Assistant to the Presidium  
Almuth Plumeier, Diplomate Administrator

#### **Public Relations Office**

Stefan Zorn  
Telephone: +49 (0)511 532-6773  
Telefax: +49 (0)511 532-3852  
pressestelle@mh-hannover.de

#### **Office of Student Affairs**

Harald Friedrichs  
Telephone: +49 (0)511 532-6016  
Telefax: +49 (0)511 532-6020  
Friedrichs.Harald@mh-hannover.de

#### **Office of International Academic Affairs**

Ritva Bargsten, Jutta Hombach  
Telephone: +49 (0)511 532-6026  
Telefax: +49 (0)511 532-6027  
Bargsten.Ritva@mh-hannover.de  
Hombach.Jutta@mh-hannover.de

#### **HBRIS Office**

Dr. Susanne Kruse, Marlies Daniel  
Telephone: +49 (0) 511 532-6011  
Telefax: +49 (0) 511 532-2611  
daniel.marlies@mh-hannover.de

#### **General Student Committee (AStA)**

Telephone: +49 (0)511 532-5409  
Telefax: +49 (0)511 532-8414  
info@mhh-asta.de  
www.mhh-asta.de

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Medizinische Hochschule  
Hannover  
Text: Stefan Zorn  
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Judith McAlister-Hermann  
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Wangler & Abele