



Sponsoring concept

International MD/PhD Program „Molecular Medicine“

Hannover Medical School, Germany

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I. Mission and Aims

1. Mission

„The international MD/PhD program „Molecular Medicine“ at Hannover Medical School (MHH) provides a well-structured education towards independent, excellent and original biomedical research in a project-orientated, international postgraduate program for students holding a Master degree, diploma or Staatsexamen in medicine or life sciences. Our students will form an important bridge between science and clinic, in research as well as teaching.“

2. Global Aims

The program focusses on fund raising (third parties).

3. Strategic Aims

Fundraising should be accomplished through sponsors. A sponsoring concept will be developed for specific projects.

II. Sponsoring concept

1. Analysis of program

What are the main features of the program? Where is financial support needed?

1.1. Figures and facts (March 2004)

<i>Existence:</i>	since 2000 (Nov. 2003 first final exams)
<i>Structure:</i>	3-year research project, lectures, presentations
<i>Focus:</i>	Immunology; Infection; Oncology / Differentiation; Genetics / Cell Biology
<i>Language:</i>	completely in English (German courses for international students)
<i>Curriculum:</i>	specific in-depth seminars for medical students and life scientists (separately); 1. year Basics (Focus on methods), 2. year applied aspects (Focus on research projects; applications); strongly interdisciplinary
<i>Soft skills:</i>	a lot of effort is laid on „soft skills“! (Presentation techniques, Scientific writing, Ethics, Animal experiments, excursions to industry, guest lecturers from politics, industry etc.)



<i>EU Standards: (Bologna)</i>	ECTS and modules (highly structured)
<i>Accreditation:</i>	since December 9th, 2003; as the first PhD program in Germany; fully accredited according to European standards (ZEvA)
<i>Students:</i>	medical students as well as life scientists
<i>Capacity:</i>	20 students/year
<i>Selection criteria/ Requirements</i>	Master, Diploma, Staatsexamen; not older than 32; excellent certificates/references; project description; achievements: publications, prizes, stipends
<i>Selection process:</i>	3-step, highly competitive (e.g. 2003: 300 applicants for 20 places) = selection of „the best“ from all over the world (quality-orientated)
<i>Start:</i>	in October (deadline for application April 1st)
<i>Final degree:</i>	after 3 years; PhD, or Dr.rer.nat (only for life scientists)
<i>Current status:</i>	58 students [23 female, 35 male; 35 international, 23 German; 34 medical students (incl. veterinary) and 24 life scientists]
<i>International:</i>	over 60% international students [Argentina (1), China (3), Columbia (1), Ethiopia (1), Georgia (1), Hungary (1), Indonesia (2), India (19), Japan (1), Slovakia (1), Syria (1), The Netherlands (1), Turkey (1), Ukraine (1).]
<i>Stays abroad:</i>	short-term stays abroad possible and desired (3 months – max. 2 years)
<i>Financing:</i>	„Overhead“ from DAAD/DFG (ca. 120.000,- Euro/year, incl. personel); Students from departments, grants, third parties (BAT or 1.100,- Euro/month)
<i>Exams:</i>	intermediate exams after 18 months, Final exam: public defense, external board of referees
<i>Supervision:</i>	MD/PhD committee (8 professors, 2 scientists, 3 students (one from every year); Scientific coordinator; one main supervisor and two co-supervisors
<i>Social Support:</i>	MD/PhD office; 2 students; events; excursions in cooperation with the international office
<i>Faculty: (Supervisors/lecturers)</i>	ca. 100 (from many departments of the MHH and partner institutes)



Cooperations: with the Hannover Veterinary School, Fraunhofer Institute for „Toxicology and Experimental Medicine“ Hannover, GBF Braunschweig, Max-Planck Institute for „Experimental Endocrinology“ Hannover, IPF Hannover, „Centre of stem cell research“ Gaterleben; many international partner

Network: speaker of the German network of biomedical PhD programs; application for the membership in the European PhD coordination within the „European University Association“ (EUA)

Quality control: (internal) regular evaluation of lectures; consequences are taken
annual adaptation of Curriculum; time of probation for students
annual public presentation of projects and discussions; regular meetings with supervisors; exams

Quality control: (external) annual report on research of MHH; Evaluation of research by the Scientific committee of Lower Saxony; annual report for DAAD; accreditation; reevaluation

Marketing: homepage, flyer, poster, year book, congresses, advertisements, press articles

Current sponsors:

Grants: „Gesellschaft der Freunde der MHH“
WINKRA Energie GmbH

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Workshop/year book: Nord LB
Techniker Krankenkasse
Sparkasse Hannover
TUI AG
Bristol-Myers Squibb Company
Glaxo Smith Kline
Aventis Pharma
Octapharma GmbH
BioVision AG

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1.2. Summary

Hannover Medical School (MHH) nationally and internationally stands out for its excellent reputation and scientific activities. Within the scope of interdisciplinary education and cooperations, the MHH sets high value on the support of young scientists [Graduate programs, Graduate Colleges and Program projects (Deutsche Forschungsgemeinschaft, DFG)]. Main research fields of MHH are *Immunology, Infection, Oncology, Differentiation, Genetics* and *Cell Biology*.

To maintain high standards in biomedical research, the MHH has founded the international and interdisciplinary MD/PhD program “Molecular Medicine” in October 2000. In this structured training program, students learn to carry out thorough and independent scientific work while doing their own 3-year research project, and, thus, earn a further qualification for the performance of tasks in scientific research and teaching. The whole program is taught in English.



Besides the individual research projects, the program comprises of obligatory seminars and tutorials, which focus on basics and methods in biology and medicine, and then on more applied aspects through seminars on current research projects at the MHH. Furthermore, students attend a large catalogue of project-oriented and interdisciplinary seminars, including scientific colloquia, and complementary seminars. They gain specific scientific and technological competencies, including soft skills. Those highly qualified researchers are strongly needed throughout Europe.

The medical students in this program will receive more in-depth education in life sciences, especially in molecular medicine, whereas the students from life sciences will receive an education in basics of medicine.

Numerous cooperations with outstanding scientists and institutes guarantee scientific excellence. Short-term stays abroad within the scope of cooperations and projects are desired as well as the invitation of guest scientists.

On December 9th 2003, the MD/PhD program “Molecular Medicine” was accredited as the first German PhD program according to European standards (ECTS and modules; agency ZEvA).

The MD/PhD program is thought to be highly attractive for foreign students from all over the world.

1.3. Offer

The MD/PhD program „Molecular Medicine“ offers:

- Students: a well-structured and excellent PhD education; extensive supervision; preparation for future career (incl. teaching of „soft skills“); „top“ program and university
- Supervisors: excellent and highly motivated students, quality-orientated selection of applicants; minimal effort; financing through program possible; substantial support by MD/PhD office
- Lecturers: highly motivated students who like to discuss; counts for teaching deputat; involvement in „program of excellence“
- Medical School: excellent junior scientists; „figurehead“; marketing
- Pot. employers: excellent scientifically and internationally educated applicants (incl. „soft skills“, interdisciplinarity); pre-selection of „the best“; early contact possible (as lecturer, sponsor etc.)
- Sponsors: contact to students; grant will be named after sponsor; in all marketing material name will be mentioned; metal board of sponsors of MHH; invitation to all public activities and festive events; information
- Friends: contact to students; invitation to all public activities and festive events; information



MD/PhD Program „Molecular Medicine“



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