

Major Cancer Biology offers

- Comprehensive training in cancer research by internationally reputed scientists and excellent research groups at the DKFZ – German Cancer Research Center Heidelberg, Germany
- Contact to cutting edge science and interaction with internationally leading scientists in biomedical sciences early in your career
- >100 Faculty members from all Research Programs of the German Cancer Research Center are actively involved
- DKFZ infrastructure
 - Modern Teaching Labs and Equipment
 - Advanced Education and Training program
 - IT Core Facility
 - Library Services – e-journals
 - Congress Venue – free access
- Mentoring program, Career counselling service, Student retreat, Special workshops

Students of Major Cancer Biology

- come from all over the world
- are open-minded and motivated
- hold an above-average Bachelor degree
- have a solid background in standard cell and molecular biological methods
- have a strong interest in cancer research

Application

Info www.uni-heidelberg.de/fakultaeten/biowissenschaften/studium/studiengang/mbiomics/admission.html

Online application gateway open
1. February – 15. March of each year

Start of program
October of each year

Scholarships for outstanding students

Info www.dkfz.de/major



CLEVER
SCIENCE.

Major Cancer Biology at the German Cancer Research Center Heidelberg, Germany

contact:

Administrative Office
Major Cancer Biology (W071)
Attn. Eva Gundel
German Cancer Research Center DKFZ
Im Neuenheimer Feld 280
D-69120 Heidelberg

e.gundel@dkfz.de
<http://www.dkfz.de/major>
<https://www.linkedin.com/groups?gid=8173665>

dkfz.

GERMAN
CANCER RESEARCH CENTER
IN THE HELMHOLTZ ASSOCIATION

Research for a Life without Cancer

**Annual Application Period:
1st Feb. - 15th March
for Program Start in October**

Major Cancer Biology at the German Cancer Research Center Heidelberg, Germany



within the
International Master's Program
'Molecular Biosciences'

University of Heidelberg
Faculty of Biosciences



**International Master's Program
'Molecular Biosciences'
Heidelberg University
Faculty of Biosciences**

The Master's Program **Molecular Biosciences**, established in 2007, offers students from all over the world who hold a relevant, above-average Bachelor's degree the chance to continue their **academic career** in a specialized field of Biosciences.

Choice of specialization in 7 different **Majors**

- **Cancer Biology**
- Developmental and Stem Cell Biology
- Infectious Diseases
- Molecular and Cellular Biology
- Molecular Plant Sciences
- Neuroscience
- Systems Biology



Each Major is designed to provide a comprehensive but focused training in the most exciting fields of **modern biological research**.

Heidelberg is famous for its concentration of **world-class** biological research laboratories. Each Major represents a special research area in Heidelberg.



www.uni-heidelberg.de

**dkfz. GERMAN
CANCER RESEARCH CENTER
Heidelberg – Germany**

Cancer still remains one of the major causes of human death. **Scientists** at the German Cancer Research Center **DKFZ** systematically investigate the mechanisms of cancer development and progression and evaluate risk factors. Novel findings are exploited in translational research aimed at developing improved strategies to **prevent, diagnose, and treat** cancer.

DKFZ Research Programs

90+ Divisions, Research Groups and Clinical Cooperation Units, thematically grouped in six programs:



Cell Biology and Tumor Biology



Functional and Structural Genomics



Cancer Risk Factors and Prevention



Immunology and Cancer



Imaging and Radiooncology



Infection, Inflammation and Cancer

With the aim of promoting **teaching** and **research** in Cancer Biology, the Faculty of Biosciences and the DKFZ have launched this **Major in Cancer Biology** which offers comprehensive training in cancer research for graduate students.

The degree M.Sc. Molecular Biosciences with a Major in Cancer Biology provides students with an optimal start in the DKFZ graduate program, the **Helmholtz International Graduate School for Cancer Research**.

www.dkfz.de

**Major Cancer Biology
at the German Cancer Research Center
Curriculum and Structure**

The **study program** of Major Cancer Biology is designed to cover all relevant aspects of cancer research, reflecting all research programs of DKFZ.

- 2-year modular structure – fast-track possible
- all teaching in English
- 24 students accepted each year

Course Content

Semester 1 – Frontiers in Biosciences 1 & 2

- Lecture series with accompanying tutorials, providing a solid background in advanced molecular biosciences.
- 3-week practical laboratory courses with accompanying student seminars

Semester 2 – Focus Bioscience 1 & 2

- Lecture series with accompanying tutorials on "Molecular principles of cancer development" and "Tumor immunology, virology and cancer"
- 3-week practical laboratory courses with accompanying student seminars

Semester 3 – Biolab & Working in Bioscience

6-8 weeks lab rotations, working on a small research project in the laboratory of choice, attending literature seminars in that division, and writing a report.

Semester 4 – Master Thesis and Oral Defense

The master thesis work lasts 6 months, undertaking a research project relevant to the Major under the supervision of a faculty member, writing of a thesis, and defense in an oral presentation.

www.dkfz.de/major