

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
- Mentoring program
- DKFZ infrastructure
 - Modern Teaching Labs and Equipment
 - IT Core Facility
 - Advanced Education and Training program
 - Library Services – e-journals
 - Congress Venue – free access

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.hbiggs.uni-heidelberg.de/main_msc_fellowships.html

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

contact:

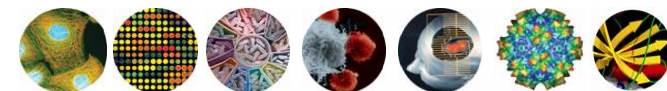
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dkfz.

GERMAN
CANCER RESEARCH CENTER
IN THE HELMHOLTZ ASSOCIATION

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



within the
International Master Program
'Molecular Biosciences'

University of Heidelberg
Faculty of Biosciences



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

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

Choice of specialization in 8 different **Majors**

- **Cancer Biology**
- Developmental Biology
- Infectious Diseases
- Evolution and Ecology
- Molecular and Cellular Biology
- Molecular, Cellular and Developmental Biology of Plants
- 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



Cell and Tumor Biology



Structural and Functional Genomics



Cancer Risk Factors and Prevention



Tumor Immunology



Imaging and Radiooncology



Infection and Cancer



Translational Cancer Research

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 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 Bioscience 1 & 2

- Lecture series with accompanying tutorials, providing a solid background in advanced molecular biosciences.
- 3-week laboratory practicals with accompanying 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 laboratory practicals with accompanying 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 laboratory and writing a report.

Semester 4 – Master Thesis and Oral Defense

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

www.dkfz.de/major