

Philosophy and Objectives / Admissions Policy

Philosophy

The Graduate School of Medicine, Hokkaido University leads the world with cutting-edge research in medical science, and aims to equip the next generation of medical researchers and medical professionals with a strong sense of ethics and a well-rounded character to contribute to the health and welfare of humanity.

Educational and Research Objectives

To help students develop advanced levels of knowledge and research skills in the fields of medical and life sciences and gain profound insights that will help them meet the needs of society. To promote world-leading research in the school in its role as part of a major Japanese university and to advance knowledge frontiers for the prosperity of humanity.

Admissions Policy (Expectations of Students)

We are looking for

- Students who are eager to engage in the research tailored to clarify life phenomena, to overcome diseases, and to improve human health standards
- Students who have intellectual curiosity, show the ability to analyze things logically, persevere as a team, and have competence to work as international leaders in each medical field
- Students who have fundamental reading and writing skills in English

Message from the Dean for the Doctoral Program 2023

The Hokkaido University Graduate School of Medicine set as its educational objective the cultivation and fostering of students equipped with advanced levels of knowledge and research skills in the fields of medical and life sciences who have profound insights that will help them meet the needs of society. This objective is in line with the school's philosophy of leading the world with cutting-edge research in medical science and contributing to the health and welfare of humanity by developing the next generation of medical researchers and medical professionals and ensuring they have a strong sense of ethics and a well-rounded character.

The Doctoral Program of the school is comprised of one division and three courses, which place emphasis on multidisciplinary education transcending the boundaries of academic disciplines while at the same time offering substantial curriculums that secure high levels of expertise on the courses. The courses are the Basic Medicine Course designed to nurture the next generation of medical researchers and physician scientists, the Social Medicine Course to develop future experts in social medicine and public health administration, and the Clinical Medicine Course to foster individuals capable of conducting advanced clinical studies.

The graduate school launched a Medical Scientist Training Program (MD-PhD Program) for students at the School of Medicine in 2009 to expedite the fostering of educators and researchers in basic medicine possessing a physician's license, whose declining number is a source of concern. The program allows sixth-year students in the School of Medicine to take classes offered by the Doctoral Program of the Graduate School of Medicine. Students can receive their doctoral degree in three years as long as they meet the program completion requirements. In 2013, the graduate school also initiated a new program named the CLARC (CLinic And Research Combination) Program, which allows clinicians in their second year of clinical training to enroll in the graduate school early. In this program, students take graduate classes offered in the evening while continuing clinical training. The program is popular with clinicians aspiring to become physician scientists because it allows them to enroll in the graduate school while still undergoing clinical training. In 2022, the MD-MBA Program was established. This program allows students to earn both a Doctor of Medicine and a Master of Business Administration simultaneously in a minimum of five years, with a one-year overlap period.

Students who pursue groundbreaking medical research at the Graduate School of Medicine will be required to help meet the needs of society by proactively working on creative knowledge practices and addressing social issues with high ethical standards as valued members of the scientific community. As we have built sufficient abilities and systems to meet the expectations of our students, we truly welcome those who are eager to do their part to support the future of medical science and medical care.

HATAKEYAMA Shigetsugu, M.D., Ph.D.

Dean, Graduate School of Medicine, Hokkaido University

April 2023



Students are accepted in the following departments.

(As of July 1, 2023)

Departments

【Division of Medical Science】

Physiological Science	Biochemistry	● Molecular Biology** ● Medical Chemistry
	Anatomy	● Anatomy and Embryology** ● Histology and Cytology
	Physiology	● Cell Physiology ● Systems Neuroscience
	Pharmacology	● Neuropharmacology ● Cellular and Molecular Pharmacology
Pathological Science	Pathology	● Pathology ● Cancer Pathology ■ Diagnostic Pathology
	Microbiology and Immunology	● Immunology ● Microbiology and Infectious Diseases
Social Medicine	Social Medicine	● Hygiene ● Public Health ● Forensic Medicine ● Health Care Policy** ● Biostatistics ● Medical Education and General Medicine ■ Regulatory Science** ■ Translational Research Management** ■ Patient Safety ■ Health Data Science ● Pharmaceuticals and Medical Devices Regulatory Science*** ■ Clinical Genetic and Medical Ethics
Internal Medicine	Internal Medicine	● Respiratory Medicine ● Rheumatology, Endocrinology and Nephrology ● Gastroenterology and Hepatology ● Cardiovascular Medicine ● Medical Oncology ● Hematology ★ Health Care Medicine ■ Clinical Cancer Genomics
	Radiology	● Radiation Oncology ● Diagnostic Imaging ● Comprehensive Radiological Science***
Surgery	Surgery	● Gastroenterological Surgery I ● Gastroenterological Surgery II ● Renal and Genitourinary Surgery ● Cardiovascular Surgery ■ Breast Surgery ■ Thoracic Surgery
	Anesthesiology and Critical Care Medicine	● Anesthesia and Perioperative Medicine** ● Acute and Critical Care Medicine
Specialized Medicine	Reconstructive Surgery and Rehabilitation Medicine	● Orthopedic Surgery ● Plastic and Reconstructive Surgery ■ Rehabilitation Medicine ■ Sports Medicine
	Reproductive and Developmental Medicine	● Pediatrics ● Obstetrics and Gynecology
	Sensory Organ Medicine	● Dermatology ● Otolaryngology - Head and Neck Surgery ● Ophthalmology
	Neurological Disorder	● Psychiatry ● Neurosurgery ● Neurology
Interdisciplinary Medicine	Medical Biology	● Neurobiology ● Human Evolution Studies**
	Immunology	▶ Immunobiology ▶ Molecular Psychoimmunology ▶ Biological Molecular Mechanisms
	Pathological Oncology	▶ Stem Cell Biology ▶ Biomedical Oncology
	Clinical Collaboration	Hospitals Serving as Clinical Collaboration

- * Collaborative Laboratory Established by Collaboration among Universities
- ** There will be no new enrollments for the 2024 academic year.
- Teaching staff of the Faculty of Medicine are in charge.
- Teaching staff of the Hokkaido University Hospital are in charge.
- ☆ Teaching staff of the Health Care Center Hokkaido University are in charge.
- ▷ Teaching staff of the Institute for Genetic Medicine are in charge.