

## 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 Master's Program 2022

Open to students from various academic backgrounds, including those from institutions other than the School of Medicine, the Master's Program of the Hokkaido University Graduate School of Medicine aims to promote the integration of knowledge from different related fields and nurture medical researchers and highly specialized professionals with creativity and broad perspectives by providing students with an opportunity to gain knowledge and experience on the cutting edge of basic medicine, social medicine and clinical medicine.

The graduate school has a wealth of outstanding faculty members engaged in internationally recognized research projects in various medical fields. In basic medicine, a host of studies are under way on the physiology and pathology of the human body, including innovative research regarding the brain, cancer and immunity. In the field of social medicine, epidemiological studies are being conducted to solve various issues faced by modern societies. Further, the school's Public Health Course offers students the opportunity to earn a Master of Public Health (MPH), an internationally recognized degree. In addition, a one-year course is in place for doctors, dentists, pharmacists and other medical professionals with practical experience to expeditiously provide society with personnel capable of dealing with local issues in Hokkaido, such as ongoing population aging and depopulation. In clinical medicine, outstanding studies are being conducted, including those intended to elucidate the causes and pathological conditions of diseases and to develop novel diagnostic and therapeutic methods, with a particular focus on developing state-of-the-art diagnostic and therapeutic apparatuses using biomedical science and engineering approaches and new therapies using highly functional novel materials.

Students who pursue leading-edge 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.

April 2022

HATAKEYAMA Shigetsugu, M.D., Ph.D.  
Dean, Graduate School of Medicine, Hokkaido University

Students are accepted in the following departments.

(As of July 1, 2022)

### 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*
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
	Immunology	●Immunobiology ●Functional Immunology ●Molecular Psychoimmunology ●Biological Molecular Mechanisms
	Pathological Oncology	●Stem Cell Biology ●Biomedical Oncology

\* Collaborative Laboratory Established by Collaboration among Universities (No student enrollments)  
\*\* There will be no new enrollments for the 2023 academic year.