

*This English translation is provided for information purposes only.*

**Hokkaido University Graduate School of Medicine**  
**Application Guidelines for**  
**Additional Recruitment, 2026**  
**for Doctoral (PhD) Program**  
**in Medicine**

(For enrollment April 2026)

<b>Application Period</b> : Wednesday, 4 February 2026 to Friday, 6 February 2026
---

**Hokkaido University Graduate School of Medicine**

**This PDF file does not contain the application documents,  
so you will need to order the booklet for your application.**

## Outline of Doctoral (PhD) Program in Medicine

### 1. Educational Philosophies, Educational Goals, Expectations of students, Basic Policy for Entrant Selection

Under the basic philosophies of Hokkaido University, “Frontier Spirit”, “Global Perspectives”, “All-round Education” and “Practical Learning” and the educational philosophies of the Graduate School of Medicine “to lead the world with cutting-edge research in medical science” and “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”, the Graduate School of Medicine sets its educational goal to nurture individuals who possess high ethical standards, highly specialized knowledge, and research and teaching capabilities regarding medicine, life science and social medicine (public health), as well as individuals who possess the deep insight to meet the diverse, wide range of health and safety requirements from local and international community. The Graduate School of Medicine expects “① students who are willing to be engaged in research tailored to clarify life phenomena, to overcome diseases, and to improve human health standards” and “② students who have intellectual curiosity, show the ability to analyze things logically, persevere as a team, and aspire to work as international leaders in each medical field.” and “③ Students who have fundamental reading comprehension in foreign language (English) and writing skills before enrollment ”

Selection shall be determined based on the comprehensive evaluation of entrance examinations, academic transcripts, and other relevant documents submitted.

- The evaluation methods and the evaluation weight and the relationship between Expectations of Students and the evaluation methods

Entrance exam classification	Evaluation method	Evaluation weight	Matters related to ①	Matters related to ②	Matters related to ③
general examination	Specialized subject	◎	✓	✓	
	English	◎			✓
	Application Documents	○	✓	✓	

The mark ◎ indicates elements that are particularly important

The mark ○ indicates elements that are important

✓ is the Expectations of Students evaluated in the each evaluation methods

### 2. Expected Competencies, Diploma Policy

Based on the “Educational Goals” of the Graduate School of Medicine, in the Doctoral Program, we aim to nurture highly qualified individuals who play active roles as (i) international researchers in domestic and international universities or research institutions, (ii) clinicians and medical scientists in medical institutions who excel in both clinical techniques and research competence, or (iii) highly specialized professionals engaged in health services administration and public health in administrative organizations, companies and so on.

In order to develop such human resources, we grant Doctor of Philosophy to those who have attained the competencies to continuously contribute to the development of basic medicine, clinical medicine, or social medicine research through properly understanding the backgrounds or circumstances of medical research, making plans for research theme which are academically and internationally significant or hypotheses which should be validated, analyzing the obtained results through verification of the validity and preparing another theme or hypotheses.

### 3. Course Introduction

In order to nurture individuals who attain “Expected Competencies”, we offer interdisciplinary education beyond the boundaries of existing academic disciplines, aiming at the acquisition of basic knowledge and technology of mutually related fields. In addition, to nurture talented individuals responding to the diversified social needs, we introduce three types of coursework to study systematically through multiple subjects. Students choose the course that suits best to their purpose.

### **【Basic Medicine Course】**

This course aims to train researchers and educators in medical and life science field. Students acquire broad expertise required to become independent researchers, learn various research approaches including techniques for designing experiments, and develop their research capabilities. They are also expected to acquire the competence and skills to apply and utilize their expertise to medical and life science fields with interdisciplinary approach.

### **【Clinical Medicine Course】**

This course aims to train clinicians who excel in clinical techniques and research competence. Rather than relying solely on the traditional research methods of basic medicine using model animals or cells, students gain the competence they need for research in clinical medicine by applying methods targeting human.

A system of Clinical Collaborative Departments is implemented for the students taking Clinical Medicine Course. Under this system, students can collect clinical data which may not be available at the university hospital, and can receive medical research instructions from institutions where advanced and specialized diagnoses, examinations and treatments are conducted which may not be feasible at the university hospital. This system combines theory with practice in education provided by multiple instructors including dedicated instructors and collaborative leading clinicians.

### **【Social Medicine Course】**

This course aims to train professionals who undertake the task of improvement of health and safety at the regional and international levels. Students start by learning research methods in social sciences including research ethics, basic and applied statistics, medical informatics and EBM (evidence-based medicine). This course emphasizes social medicine and preventive medicine, rather than biology and life science. Students aim at mastering the research approaches and skills that are necessary for research in public health and preventive medicine.

※ Students should state their preference course when applying and after the admission students will be allocated to courses based on their preference. It is possible to change the course after the admission.

## **4. Course Guidance**

The following 3 subjects are offered in the Doctoral (PhD) Program in Medicine.

- Required Core Subjects (Kyoutsu Koa Kamoku)
- Required Subjects (Hisshu Kamoku)
- Elective Subjects (Sentaku Kamoku)

“Required Core Subjects” are offered to cultivate the basic quality in the education at the Graduate School of Medicine, and are compulsory in all courses. “Required Core Subjects” include “Introduction to Medical Research” to provide basic and systematic knowledge of medical research, and “Experimental Methods and Research Designs” to master designing of research, basics of epidemiology and biostatistics. In line with “All-round Education”, one of educational philosophies of Hokkaido University, students learn “Medical Ethics” which cultivates bioethics for those engaged in medicine, “Presentation Skills I & II” which develops presentation skills and academic paper writing skills in English, and “Introduction to Translational Research” which promotes the understanding of bridging research aimed at establishing medical technology or pharmaceutical products in the clinical practice utilizing the results gained by basic research.

“Required Subjects” are offered according to the educational goal of each course, to acquire not only in-depth knowledge of specialized research field but also the knowledge of outside extensive fields. In addition, research work for doctoral thesis will be certified as credits. Furthermore, a supervisor in the laboratory will be in charge of the subject and carry out exercises for gaining the necessary ability to complete the dissertation.

“Elective Subjects” are offered to secure flexibility in selecting credits, and enable students to acquire a broad view and expertise beyond the course and a framework of specialized field.

Subjects		Subject	Credit	Details
Required Core Subjects		Introduction to Medical Research	1	
		Experimental Methods and Research Designs	1	
		Medical Ethics	1	
		Scientific Presentation and Communication	1	
		Presentation Skills I	1	
		Presentation Skills II	2	
		Introduction to Translational Research	1	
		Required Subjects	Basic Medicine Course	
Research Methods in Medical Sciences II	1			
Dissertation Research in Medical Sciences	10			
Clinical Medicine Course	Research Methods in Clinical Medicine I		1	
	Research Methods in Clinical Medicine II		1	
	Dissertation Research in Clinical Medicine		10	
Social Medicine Course	Research Methods in Social Medicine I		1	
	Research Methods in Social Medicine II		1	
	Dissertation Research in Social Medicine		10	
Elective Subjects		Principles of Medicine	[2]	Take 10 credits or more including 2 credits of Principles of Medicine offered by belonging laboratory.
		Classes offered by Other Graduate Schools		
		Inter-Graduate School Classes		
		Required Subjects from Other Courses		

※ As for the subject which credit number is indicated as [number], students can take multiple choices as far as the chosen subjects belong to different subject titles.

### Completion Requirements

Students are required to be enrolled in the Graduate School of Medicine for 4 years or more to complete Doctoral Program. (Students who achieved superior performance can complete the Doctoral Program as much as 1 year before the end of the course term.)

Students should acquire 30 or more credits in majored fields, and pass the qualifying review and examination of the Degree thesis (Dissertation) after receiving required research instruction from the supervisor.

### How to take subjects

Students should take 8 credits from Required Core Subjects, 12 credits from Required Subjects they enroll, 10 credits or more including Principles of Medicine offered by belonging laboratory from Elective Subjects.

**Application Guidelines for Additional Recruitment, 2026  
for Doctoral (PhD) Program in Medicine  
(For enrollment April 2026)**

**1. Number of Students Admitted**

Medicine: A few students (including a few working students)

Before applying, please contact Student Affairs Office, Graduate School of Medicine at first, because the office needs to refer the prospective supervisor for the possibility to accept the applicant. Please be noted that only those who have been given prior approval from prospective supervisor can apply. For the information of laboratories, please check “Organization of the Graduate School of Medicine and main research contents”.

Working students mean individuals who are working at public offices, institutes, hospitals or others and continue their service at their work place after enrollment.

**2. Qualifications of Applicants (April 2026 Enrollment)**

- (1) Those who have graduated or are expected to graduate from a six-year program in Medicine, Dentistry, Veterinary Medicine or Pharmaceutical Sciences by 31 March 2026.
- (2) Those who have completed or are expected to complete 18 years of formal education overseas (with a six-year final program in Medicine, Dentistry, Veterinary Medicine or Pharmaceutical Sciences) by 31 March 2026.
- (3) Those who have completed or are expected to complete 18 years of formal education provided by overseas educational institution by way of distance education (with a six-year final program in Medicine, Dentistry, Veterinary Medicine or Pharmaceutical Sciences) while residing in Japan by 31 March 2026.
- (4) Those who have completed or are expected to complete an undergraduate course of a foreign institution at an educational institution in Japan (limited to those who have completed 18 years of the said foreign country’s curricular education with a six-year final program in Medicine, Dentistry, Veterinary Medicine or Pharmaceutical Science) which is designated in the said foreign country’s education system and specifically designated in Japan by the Minister of Education, Culture, Sports, Science and Technology by 31 March 2026.
- (5) Those who have been awarded or are expected to be awarded by 31 March 2026 a degree equivalent to Bachelor’s degree from overseas university or overseas educational institution by completing five or more years of curriculum in Medicine, Dentistry, Veterinary Medicine or Pharmaceutical Science (including completing the said curriculum by overseas school by way of distance education while residing in Japan or completing the curriculum at an educational institution which is designated in the said foreign country’s education system as well as falls into the specification of above (4)).
- (6) Those designated by the Minister of Education, Culture, Sports, Science and Technology (see Notes 1&2)
- (7) Those have been or are expected to be fallen under one of the followings by 31 March 2026 are qualified for application if deemed by Hokkaido University Graduate School of Medicine of to have academic ability equal to or greater than university graduates in Medicine, Dentistry, Veterinary Medicine or Pharmaceutical Sciences. (see Note 2)
  - i ) Those who have been enrolled for four years or more in 6-year program in Medicine, Dentistry, Veterinary Medicine or Pharmaceutical Sciences Medicine.
  - ii ) Those who have completed 16 years of school education overseas (with a final program in Medicine, Dentistry, Veterinary Medicine or Pharmaceutical Sciences).
  - iii ) Those who have completed 16 years of formal education provided by overseas educational institution by way of distance education (with a final program in Medicine, Dentistry, Veterinary Medicine or Pharmaceutical Sciences) while residing in Japan.
  - iv ) Those who have completed an undergraduate course of a foreign institution at an educational institution in Japan (limited to those who have completed 16 years of the said foreign country’s curricular education with a program in Medicine, Dentistry, Veterinary Medicine or Pharmaceutical Science) which is designated in the said foreign country’s education system and specifically designated in Japan by the Minister of Education, Culture, Sports, Science and Technology.

- (8) Those who are deemed by Hokkaido University Graduate School of Medicine under individual qualification review to have academic ability equal to or greater than university graduates, and will be 24 years of age or older before 31 March 2026. (see Note 2).

**Note 1:** Those designated by the Minister of Education, Culture, Sports, Science and Technology.

- (A) Those who have graduated from a medical or dental faculty of a university under the former University Ordinance (Imperial Ordinance No. 388 of 1918) after completing a program in medicine or dentistry in the said faculty.
- (B) Those who have graduated or are expected to graduate from the National Defense Medical College under the Act for Establishment of the Ministry of Defense (Act No.164 of 1954) by 31 March 2026.
- (C) Those who have completed a master's course or a course of professional graduate school under the School Education Act (Act No. 26 of 1947) Article 99, paragraph 2 or those who are eligible to be awarded a master's degree. (including those who are expected to complete the said course by 31 March 2026), as well as those who have been enrolled for more than two years in a doctoral course that is not divided into two terms (first two-year term and second three-year term), have acquired 30 or more credits, have received necessary research instruction (including those who meet the requirement of the Rules for Degrees [Education Ministry Ordinance No.9 of 1953, Article 6, item 1] before it was partly revised by Education Ministry Ordinance No.29 of 1974), and have been deemed by Hokkaido University Graduate School to have academic ability equal to or greater than university graduates in 6-year program in Medicine, Dentistry, Veterinary Medicine or Pharmaceutical Sciences.
- (D) Those who have graduated from or completed one of the programs listed below, and have conducted research for at least two years at a university or research institute, and are deemed by Hokkaido University Graduate School to have academic ability equal to or greater than university graduates in Medicine, Dentistry, Veterinary Medicine or Pharmaceutical Sciences.
  - a) Those who have graduated from a university (other than 6-year programs in Medicine, Dentistry, Veterinary Medicine or Pharmaceutical Sciences).
  - b) Those who have completed 16 years of formal education outside Japan.

**Note 2:** Those who apply under Qualifications of Applicants (6), Note 1 (D), or Qualifications of Applicants (7) or (8), must undergo Qualification Review. Refer to 3. (4) Qualification Review for further information.

### 3. Application Procedure

#### (1) Application Period

Wednesday, 4 February 2026 to Friday, 6 February 2026

Office Hours: 09:00 to 17:00 (JST), excluding Saturday, Sunday and holidays. If the applicants send the application by post, send by express registered mail. Application documents must arrive at Student Affairs Office within the application period.

Those who apply under 2. Qualifications of Applicants (6) Note 1 (D), (7), or (8) must undergo Qualification Review. Apply for Qualification Review within the application period with all necessary documents described in 3. (4) Qualification Review. Application deadlines for Qualification Reviews are Friday, 16 January 2026.

#### (2) Application Documents and Examination Fee

Please request Student Affairs Office for the original booklet "Application Guidelines for Additional Recruitment, 2026 for Doctoral (PhD) Program in Medicine", which includes Application Form and other necessary documents for application.

Application Form	Prescribed form included in the original booklet. Please request the original booklet from Student Affairs Office. Fill in your information and paste your photograph taken within the last 3 months (full-face, 4 x 3cm, applicant's name printed on back) in the space provided.
Academic Transcripts	Must be issued by a university/college president or Dean. Those who have entered a graduate school must also submit the transcript issued by the Graduate School as well. Those who have graduated or are expected to graduate from Hokkaido University

	<p>School of Medicine or completed or are expected to complete the Master's Program of Hokkaido University Graduate School of Medicine do not need to submit this documentation.</p> <p>Applicants who have previously submitted an application as a research student must also submit a new original. <b>Copy not accepted.</b></p> <p>If your family name has been changed afterward, please attach the document such as abstract of your family register, to prove that you have changed your family name.</p>
Certificate of (expected) Graduation or Completion	<p>Must be issued by a university/college president or Dean.</p> <p>Those who have entered a graduate school must also submit the certificate issued by the Graduate School as well.</p> <p>Those who have graduated or are expected to graduate from Hokkaido University School of Medicine, or completed or are expected to complete the Master's Program of Hokkaido University Graduate School of Medicine do not need to submit this documentation.</p> <p>Applicants who have previously submitted an application as a research student must also submit a new original. <b>Copy not accepted.</b></p> <p>If your family name has been changed afterward, please attach the document such as abstract of your family register, to prove that you have changed your family name.</p> <p>*Those who graduated or will graduate from a university in China (excluding Taiwan, Hong Kong and Macau) must submit the following all documents.</p> <p>Graduates:</p> <ol style="list-style-type: none"> <li>Certificate of Graduation</li> <li>Online Verification Report of Higher Education Qualification Certificate (教育部学历证书电子注册备案表)</li> <li>Certified copies of your Graduation Diploma (毕业证书) that has been authorized by a university/college</li> <li>Certified copies of your Degree Diploma (学位证书) that has been authorized by a university/college</li> </ol> <p>Expected Graduates :</p> <ol style="list-style-type: none"> <li>Certificate of expected Graduation</li> <li>Online Verification Report of Student Record (教育部学籍在线验证报告)</li> </ol> <p>Obtain documents "b" above by requesting it at "中国高等教育学历证书查询" : <a href="http://www.chsi.com.cn/xlcx/bgys.jsp">http://www.chsi.com.cn/xlcx/bgys.jsp</a>.</p> <p>Also be sure that there are 15 or more days left until the expiration date of the online verification at the time of its submission.</p> <p>If you are unable to obtain the original certificates of documents c. and d. from your university, please consult with the Student Affairs Office in advance.</p>
Examination Card / Photo ID Card	<p>Fill in your information and paste your photograph taken within the last 3 months (full-face, 4 x 3cm, applicant's name printed on back) in the space provided.</p> <p>Included in the original booklet.</p>
Self-addressed Envelope	<p>Self-addressed prescribed envelope (23.5×12cm) with 410yen stamp affixed to receive your Examination Card.</p>
Address Card	<p>Fill in your postal code, address, and mailing address clearly written in all three places. For receive the acceptance letter and documents for admission. Included in the original booklet.</p>
Examination Fee	<p>JPY30,000. Pay by the attached remittance form at Japan Post Bank or other banks in Japan, which is attached to the original booklet. <b>【ATM payment not accepted】</b></p> <p>Government-financed international students (persons receiving MEXT Scholarship grants) are exempted from this fee but must include a statement to this effect when submitting the application.</p>
Form to Paste the Payment Certificate	<p>Prescribed form. Included in the original booklet.</p> <p>On this form paste the payment certificate of examination fee (certificate E) which is included in the original booklet and to be returned from the bank after payment.</p>

(If applicable) Photocopy of Residence Card	Submit regardless of your status of residence. Applicants from abroad must submit photocopy of passport.
(If applicable) Consent to Transfer and Process Personal Data	Applicants from EEA must confirm the Handling of Personal Information on page 11 and submit the consent.
<u>Applicants for Working Student Admission</u> must submit following additional documents. Please contact Student Affairs Office for further information. - Statement of Purpose (A4- paper free format, explaining your preferred laboratory, research plan and future goals) - Details of activities (conference presentation, publication, business content).	

### (3) Applicants with Physical Disability

Physically disabled applicants who require special attention during tests and classes should contact Student Affairs Office of the Graduate School of Medicine by Friday, 16 January 2026.

### (4) Qualification Review

Those who apply under 2. Qualifications of Applicants (6), Note 1 (D), or Qualifications of Applicants (7) or (8), must undergo Qualification Review. Apply within the application period with all necessary documents described as follows.

#### i ) Application Period for Qualification Review

Thursday, 15 January 2026 to Friday, 16 January 2026

Office Hours: 09:00 to 17:00 (JST), excluding Saturday, Sunday and holidays. If the applicants cannot hand in to Students Affairs Office, send the application by express registered mail.

Application documents must arrive within the application period.

#### ii ) Application Documents for Qualification Review

In addition to the documents described in (2) above, submit the documents described below.

After receiving the result of Qualification Review, pay examination fee using the attached remittance form by payment due date. Paste the payment certificate (Certificate E) on the form included in the original booklet, and mail to the address described in (5) below within (1) Application Period.

Application for Qualification Review	Prescribed form. Included in the original booklet.	
Self-addressed Envelope	Self-addressed envelope (23.5×12cm) with 410yen stamp affixed to receive the results of Qualification Review.	
Submission required depending on the qualification	Qualifications of Applicants	Documents to Submit
Certificate of Research Activity History	(6) Note 1 (D)	Certificate of research period issued by the university or the research organization where you engaged in research.
Research Plan	(7) i)	A4 paper (around 800words).
	(8)	
Letter of Recommendation	(7) i)	From chancellor or dean of the enrolled university. (Free format)
	(8)	From the head of research or business institutions, regarding research or business abilities. (Free format)



Materials to prove your academic ability to be equal to or greater than university graduates in Medicine, Dentistry, Veterinary Medicine or six-year program of Pharmaceutical Sciences.	(8)	Certificate of educational background. Reprints of research papers or other publications.
--	-----	--

Other Materials may be requested if necessary.

### iii) Procedure of Qualification Review

Qualification review is conducted by screening submitted documents.

### iv) Announcement of Results

Results of Qualification Review will be notified to applicants by postal mail.

## (5) Application Documents for both Entrance Examination and Qualification Review should be submitted to:

Student Affairs Office, Hokkaido University Graduate School of Medicine  
Kita 15 Nishi 7, Kita-Ku, Sapporo, Hokkaido, 060-8638 JAPAN  
Phone: +81-(0)11-706-5018

## 4. Selection of Entrants

Selection shall be determined based on the comprehensive evaluation of entrance examinations, academic transcripts, and other relevant documents submitted.

## 5. Date, Time and Place of Entrance Examination

Date	Time	Subject	Place
Tuesday, 17 February 2026	10:20-10:30	Introduction	Information of place and examination card will be sent by post beforehand.
	10:30-12:30	English	
	13:30-	Specialized subject	Will be informed at the day of the examination.

## 6. Notice for Entrance Examination

- (1) Information regarding place and time of the examination will be notified by postal email with Examination card. Applicants must be at the designated place by the time .
- (2) Use of dictionaries is prohibited in the English language exam.

## 7. Announcement of Successful Applicants.

10:00AM Friday, 6 March 2026 (JST)

Examinee numbers of successful applicants will be posted on the bulletin board at the main entrance lobby of the Graduate School of Medicine, as well as on the website of Hokkaido University Graduate School of Medicine around 10:00AM. A letter of acceptance will be mailed to each successful applicant. No telephone inquiries about the results of the examination will be accepted.

## 8. Admission Procedure

### (1) Registration Period(excluding Saturday and Sunday)

Monday, 9 March 2026 to Friday, 13 March 2026

### (2) Admission and Tuition fees

#### i ) Admission Fee: JPY 282,000 (estimate)

Those who are expected to complete the Master's Program of Hokkaido University Graduate School of Medicine and apply for Doctoral Program continuously, or government-financed international students (persons receiving MEXT Scholarship grants) are exempted from this fee but

must include a statement to this effect when submitting the application.

ii) Tuition Fee: : Half Year: JPY 267,900 (JPY 535,800/Year) (estimate)

\*Tuition of the first half-year should be paid, using the payment form which will be sent from the Graduate School of Medicine in the middle of the following month of the enrollment.

\*If the fee is revised, the new one will be adapted accordingly.

iii) Payments of admission and tuition fees could be exempted or postponed. Further information will be notified to successful applicants.

## 9. Important Notice

- (1) Before filling in a column of the preferred laboratory on the application for admission, refer to “Organization of the Graduate School of Medicine and main research contents” and consult your future supervisor about research contents and plan.
- (2) Incomplete application documents will not be accepted nor considered.
- (3) Submitted documents cannot be revised.
- (4) Examination fee is non-refundable unless 1) the application was not made, 2) application documents were not accepted due to the documents being incomplete, or 3) double-payments were made. It takes considerable time for refund. “Payment Certificate E” or “Receipt of Remittance D” included in the original booklet and to be returned from the bank after payment is required to claim the refund to Student Affairs Office.
- (5) Admission may be cancelled if the application documents contain false information.
- (6) Application documents should be enclosed in the envelope bound-in the original booklet and submitted by express registered mail.
- (7) Any inquiry regarding admission and examination should be sent by post enclosing a self-addressed return envelope with a postage stamp affixed.

## 10. Past Entrance Exam Questions

Past entrance exam questions of English for the last three years are available. Please request in writing to Student Affairs office enclosing a self-addressed return envelope (kaku-2 size, 24x33.2cm) with 320yen stamp affixed.

## 11. Long-Term Study Program

Please read the following page for further information.

## 12. Use of Personal Information

- (1) All personal information collected by Hokkaido University will be completely protected in compliance with the Act on the Protection of Personal Information Held by Independent Administrative Agencies, and the EU General Data Protection Regulation (GDPR) pursuant to the Hokkaido University Regulations on Personal Information Management.
- (2) Your name, address, and other personal information you provide to the university through application and individual admissions screening processes will be used solely for ① enrollee selection (application processing and the screening process), ② the announcement of exam results, ③ admission procedures, ④ surveys and research on enrollee selection methods, and ⑤ other related processes.
- (3) The personal information in section (2) above will also be used after enrollment, only for those who pass the exam, for processes related to ① academic affairs (registration, academic guidance), ② student support services (health management, scholarship applications, dorm admission selection, welfare services, etc.), ③ job search support services, ④ tuition, ⑤ use of the university library, ⑥ use of information education facilities, ⑦ confirming your safety and communication in a disaster or emergency situation, and ⑧ public relations (distributing newsletters, information on events, etc.).
- (4) Personal information contained in exam results will be used to conduct surveys and research on enrollee selection methods.
- (5) For recruiting purposes, when we receive a request for information from the Hokkaido University Frontier Foundation (Kita 8 Nishi 5, Kita-ku, Sapporo, Hokkaido; Tel: +81-(0)11-706-2017) or Hokkaido University Athletic Union (Kita 17, Nishi 7, Kita-ku, Sapporo, Hokkaido; Tel: +81-(0)11-716-4815), the only personal information listed in section (2) will be provided for use within the scope of that organization’s activities.
- (6) The personal information set forth in (2) will be retained for five years from the next academic year of our acquirement.

- (7) The university shall use Article 6, Paragraph 1 (a) of the EU GDPR as the basis for handling personal information and obtaining consent to use it. Personal information will only be used for the purpose for which consent has been given, except when required by laws and regulations.
- (8) The consent set forth in (7) may be revoked at any time. However, this does not affect the legal handling of personal information before consent was revoked.
- (9) Individuals who provide personal information may make the following requests to the university based on the EU GDPR and related laws and regulations:
  - ① Disclosure of personal information, ② Correction of personal information, ③ Erasure of personal information, ④ Limitation of the handling of personal information, ⑤ Objection to the handling of personal information, ⑥ Transfer of personal information to other service providers
- (10) If you have provided personal information within the European Economic Area, you may file an objection to a supervisory authority in accordance with Article 51, Paragraph 1 of the EU GDPR if you are dissatisfied with the university's handling of your personal information, etc.
- (11) Some of the processes in (2)–(5) mentioned above may be outsourced by the university to a contracted service provider (hereinafter referred to as “contractor”). All or some of the personal information provided by applicants may be provided to the contractor only as needed to perform the tasks for which it has been contracted.
- (12) This university is subject to Japan's Law for the Protection of Personal Information Retained by Independent Administrative Institutions, but not subject to adequacy decisions by the European Commission.

### 13. Notes to foreign applicants

#### (1) About your visa and residential status

Studying at Hokkaido University as an international student requires you to obtain a ‘Student’ visa. Please note in advance that the ‘Certificate of Eligibility (COE)’ needed for a ‘Student’ visa application may take more than 3 months to be issued after its application. Please refer to our university website, too. “HAND BOOK for International Students”

<https://intl-student-handbook.oia.hokudai.ac.jp/en/preparation-en/visa-en>

#### (2) About Security Export Control

Hokkaido University conducts strict screenings on exporting goods and providing skills (including incoming international students) by establishing ‘Hokkaido University Security Export Control Regulations (北海道大学安全保障輸出管理規程)’ based on ‘Foreign Exchange and Foreign Trade Act (外国為替及び外国貿易法)’.

In case you are subject to our regulations, you may be restricted from learning or researching your desired fields of education.

For further details of regulations regarding Security Export Control, please refer to the Ministry of Economy, Trade and Industry website below.

Ministry of Economy, Trade and Industry (METI) website: <https://www.meti.go.jp/policy/anpo/>

January 2026

Student Affairs Office of Hokkaido University Graduate School of Medicine

Kita 15 Nishi 7, Kita-Ku, Sapporo, Hokkaido, 060-8638, JAPAN

Phone: +81-(0)11-706-5018 \*Japanese only

[d-tanto@med.hokudai.ac.jp](mailto:d-tanto@med.hokudai.ac.jp)

## **Long-Term Study Program**

### **1. Purpose**

The standard term is four years. Long-Term Study Program (longer than four years) is offered for those who wish to study and acquire a degree through a long-term enrollment due to time limitations. Applicants are individually screened for eligibility.

### **2. Eligibility**

Those who have difficulties in completing the program within the standard term due to personal reasons such as (1) full time jobs, (2) part time jobs (3) child-raising or a long-term nursing care, or (4) visual disabilities, auditory disabilities, physical disabilities or other disabilities are eligible to apply for this program.

### **3. Period of Enrollment**

Students in Doctoral program may extend their term of study up to six years, and extension of study term can be applied by the year as a unit.

Students in a Long-Term Study Program are allowed to have four years leave as well as regular students.

### **4. Application Procedure**

#### **(1) Application Period**

Please request at the time of application for admission. Application form is available at Student Affairs Office of the Graduate School of Medicine.

#### **(2) Application Documents**

Please submit the following documents to Student Affairs Office of the Graduate School of Medicine.

i ) Application for the Long-Term Study Program (Form 1-1)

ii ) Reasons to apply to the Long-Term Study Program (Form 2)

iii ) Study plan of the Long-Term Study Program (Form 3)

iv ) Documents to prove the need for the Long-Term Study Program

### **5. Shortening or re-extension of Long-Term Study Program**

When deemed necessary by the Graduate School of Medicine, study term of Long-Term Study Program could be either shortened or re-extended once during the program.

Please contact Student Affairs Office of the Graduate School of Medicine for further information.

### **6. Tuition Fees**

Annual tuition fee of the Long-Term Study Program is determined by dividing the total fees of the regular program of standard term (annual fee×2 years) by the number of years allowed for the Long-Term Study Program. Tuition fee is non-refundable, and the tuition already been paid will not be adjusted.

\* Please do NOT pay tuition fee of the long-term study program before receiving a notice of determination.

## ※Organization of the Graduate School of Medicine and main research contents

	Department	Academic advisor		Research contents
Biochemistry	Molecular Biology	Professor	TAKEUCHI Jun	1. Research on the molecular mechanisms in congenital anomalies 2. Research on the epigenetic regulation in congenital anomalies 3. Research on the molecular mechanisms governing cell, tissue, and organ fate determination 4. Research on the phenotypic transformation during wound healing and tumorigenesis 5. Research on epithelial-mesenchymal transition (EMT) 6. Research on the molecular bases of cancer therapeutic resistance
	Medical Chemistry	Professor	HATAKEYAMA Shigetsugu	1. Ubiquitin system in protein degradation 2. Intracellular signal in cancer and immune system 3. Functional analysis of proteins/lipids by mass spectrometry
Anatomy	Anatomy and Embryology	Professor	FUJIYAMA Fumino	1. Visualization of expression and localization of neural signaling molecules 2. Glial roles in neural development and function 3. Molecular mechanisms for synaptic circuit development
	Histology and Cytology	Professor	FUJIYAMA Fumino	1. Anatomy and function of central nervous system 2. Elucidation of Parkinson's disease
Physiology	Cell Physiology	Professor	OHBA Yusuke	1. Visualization of cell functions using fluorescence bioimaging 2. Spatiotemporal regulation of intra- and intercellular signal transduction 3. Development and application of fluorescent biosensors
	Systems Neuroscience	Professor	TANAKA Masaki	1. Neural control of voluntary movements 2. Functional analysis of the frontal cortex 3. Functional analysis of the basal ganglia 4. Functional analysis of the cerebellum
Pharmacology	Neuropharmacology	Professor	YOSHIKAWA Takeo	1. Neuropharmacological studies of the histaminergic nervous system 2. Analysis of neuropeptides in wakefulness 3. Drug development targeting sleep disorders 4. Molecular biology of hyaluronic acid 5. Elucidation of sleep and memory neural mechanisms using calcium imaging and machine learning
	Cellular and Molecular Pharmacology	Professor	YOSHIKAWA Takeo	1. Analysis of the effects of tobacco smoke components on cellular functions 2. Research on neutrophil activation and its control mechanism
Pathology	Pathology	Professor	TANIGUCHI Koji	1. Research on inflammation and cancer 2. Research on inflammation and tissue regeneration 3. Mechanisms of autoimmune and inflammatory diseases 4. Research on tight junction 5. Development of new cancer-on-chip to elucidate the pathophysiology of intractable cancer 6. Human pathology and surgical pathology
	Cancer Pathology	Professor	TANAKA Shinya	1. Research on diagnostic and surgical pathology 2. Cancer progression, cancer stem cells, and therapeutics. 3. Profiling analysis of various diseases. 4. Bioimaging and rapid-immunohistochemistry. 5. Biomaterial for analysis of cellular reprogramming. 6. NGS-based research on brain tumor and sarcoma. 7. Student-oriented innovative research.
	Diagnostic Pathology	Professor Associate Professor	TANAKA Shinya TOMARU Utano	1. Diagnostic surgical pathology (including cytopathology) 2. Application of molecular studies in diagnostic pathology 3. Quality control and standardization in pathology laboratories 4. Clinicopathologic analysis of human malignancy
Microbiology and Immunology	Immunology	Professor	KOBAYASHI Koichi	1. Host protection mediated by TLR and NLR family proteins 2. Role of the innate immune system in the onset of infection and inflammatory diseases 3. Nod2-dependent intestinal mucosal homeostasis and pathogenesis of Crohn's disease 4. CITA/NLRC5: a key regulator of MHC class I genes 5. Mechanisms of immune evasion by cancers 6. Development of novel biomarkers and immunotherapies for cancer patients 7. Vaccine development against cancer and coronaviruses using a novel vaccine technology
	Microbiology and Infectious Diseases	Professor	KOBAYASHI Koichi	1. Studies on viral and host factors involved in the propagation of hepatitis virus (HBV, HCV) 2. Studies on the mechanism of pathogenicity of virus infection through molecular biological analysis and animal experimentation 3. Studies on the diagnosis and drug discovery of viral infection (Coronavirus, Flavivirus) 4. Epidemiological and molecular biological studies on zoonotic diseases (Hantavirus, Flavivirus)
Social Medicine	Hygiene	Professor	UEDA Kayo	1. Environmental epidemiological studies 2. Quasi-experimental assessment of population-level health interventions (interrupted time series, instrumental variables) 3. Emergency preparedness for climate change, natural disasters, and infectious diseases in healthcare facilities 4. Epidemiological study on behavioral and psychological symptoms of dementia 5. Assessment of health effects of climate change and global environment
	Public Health	Professor	TAMAKOSHI Akiko	1. Studies on diet, physical activity, social environment and physical and mental health in adults and elderly 2. Study of factors related to the health and development of children from conception 3. Research on infertility prevention and treatment support 4. Study on post COVID-19 condition
	Forensic Medicine	Professor	MATOBATA Kotaro	1. Studies on medico-legal diagnosis of cause of death, postmortem interval, wounds, asphyxia, identification and postmortem CT diagnosis. 2. Studies on the mechanisms of generation concerning exogenous unusual findings.
	Health Care Policy	Professor	KOMOTO Shigekazu	1. Research on medical and long-term care delivery systems in an aging society with a declining population 2. Research on countermeasures against cancer and other diseases 3. Evaluation of medical and long-term care policies using econometric methods with administrative databases 4. Research on the use of innovations to promote Well-being 5. Research on health technology assessment
	Biostatistics	Professor Associate Professor	TANAKA Shinya YOKOTA Isao	1. Multivariate survival analysis 2. Development and evaluation methodology for diagnostic method and clinical prediction model 3. Development and application of clinical trial design 4. Joint model of longitudinal data with flexibility 5. Clinical epidemiology using big-data and public database
	Medical Education and General Medicine	Professor	TAKAHASHI Makoto	1. Development of innovative teaching methods and materials 2. Development of innovative evaluation methods 3. Studies on factors that affect learning behavior 4. Studies on factors that affect physicians' career selection
	Patient Safety	Professor	NASUHARA Yasuyuki	1. Research on the methodology about system approach to patient safety 2. Research on the methodology for cultivating talented risk managers in hospitals 3. Research on the methodology about standardization of medical accident investigation
	Health Data Science	Professor	ITO Yoichi	1. Studies on the methodology of clinical trials 2. Studies on the methodology of drug safety data analysis 3. Studies on the multivariate data analysis
	Clinical Genetics and Medical Ethics	Professor	YAMADA Takahiro	1. Research on disclosure of secondary findings in genomic medicine 2. Research on newborn screening and genetic counseling 3. Research on tele-medicine in genetic counseling 4. Research on genetic counseling in presymptomatic genetic testing 5. Research on providing systems for prenatal genetic testing and genetic counseling
Internal Medicine	Respiratory Medicine	Professor Professor	KONNO Satoshi SAKAKIBARA Jun	1. Prospective cohort studies of asthma and/or COPD 2. Research on molecular mechanisms, diagnosis, and treatment of thoracic malignancies 3. Research on molecular mechanisms of chronic airway disease and/or diffuse lung disease 4. Basic/clinical research on pulmonary hypertension and cardiac sarcoidosis 5. Basic / clinical research on respiratory infectious diseases

	Department	Academic advisor		Research contents
	Rheumatology, Endocrinology and Nephrology	Professor Professor	ATSUMI Tatsuya NISHIO Saori	1. Basic and clinical research on autoimmune disorders 2. Research on the pathophysiology, diagnosis and therapy of diabetes and obesity 3. Research on the pathophysiology and therapy of endocrine diseases 4. Basic and clinical research on renal diseases
	Gastroenterology and Hepatology	Professor Professor	SAKAMOTO Naoya ONO Shoko	1. Research for pathophysiology, diagnosis and treatment of liver diseases 2. Research for pathophysiology, diagnosis and treatment of pancreatobiliary diseases 3. Research for pathophysiology, diagnosis and treatment of malignant tumor of digestive system 4. Research for pathophysiology and treatment of inflammatory bowel diseases 5. Research for pathophysiology, diagnosis and treatment of digestive diseases
	Cardiovascular Medicine	Professor Associate Professor	ANZAI Toshihisa NAGAI Toshiyuki	1. Research on pathophysiology, diagnosis, and treatment for ischemic heart disease 2. Molecular biological and clinical research on pathophysiology and treatment for heart failure 3. Research on etiology, diagnosis, and treatment for cardiomyopathy 4. Research on molecular and genetic basis, diagnosis, and treatment for lifestyle disorder 5. Research on etiology, diagnosis, and treatment for arrhythmia 6. Development of non-invasive technique for diagnosis of heart disease
	Medical Oncology	Professor	KONNO Satoshi	1. Research on diagnosis and treatment of malignant tumors 2. Research on molecular pathophysiology, diagnosis and treatment of lung cancers and mediastinal tumors 3. Research on molecular pathophysiology, diagnosis and treatment of tumors of the digestive organs 4. Research on cancer drug therapy 5. Research on molecular targeting therapy of cancer 6. Research on genome analysis, companion diagnostics and precision medicine of cancer
	Hematology	Professor	TESHIMA Takanori	1. Research on molecular pathogenesis, diagnosis, treatment of hematological malignancies 2. Basic and clinical research to improve outcome of hematopoietic stem cell transplantation and immune cell therapy 3. Basic research to understand cellular & molecular biology of hematopoiesis 4. Basic and clinical research on cell therapies against viral infections and malignant diseases 5. Pathogenesis, diagnosis, and treatment of immunodeficiencies, including AIDS 6. Research to improve safety and efficacy of blood transfusion 7. Research on platelet function, blood coagulation and fibrinolysis
	Health Care Medicine	Professor	ASAKURA Satoshi	1. Research for impaired health caused by stresses 2. Research for evidence based medicine in health examination 3. Research for occupational mental health 4. Research for adolescent mental health 5. Research for therapeutic interventions of mental disorders
	Clinical Cancer Genomics	Professor	KINOSHITA Ichiro	1. Research for cancer genomics 2. Research for genomic abnormality of cancer 3. Research for epigenetic alteration of cancer 4. Development of novel biomarker on cancer 5. Research for molecular targeted therapy on cancer
	Infectious Diseases	Professor	ENDO Tomoyuki	1. Research on novel therapeutic strategies for HIV infection 2. Research on diagnosis and treatment of opportunistic infections 3. Research on comprehensive pathogen analysis methods 4. Research on estimating the number of COVID-19 cases 5. Research on the life-prognosis improvement effects of AST interventions
Radiology	Radiation Oncology	Professor	AOYAMA Hidefumi	1. Research for external irradiation 2. Research for high precision X ray therapy 3. Research for Particle therapy and Proton therapy 4. Research for medical physics 5. Research for radiobiology for radiotherapy
	Diagnostic Imaging	Professor	KUDO Kohsuke	1. Diagnostic radiology using CT, MRI, ultrasound, and nuclear medicine 2. Vascular imaging and interventional radiology 3. Radioisotope treatment 4. Imaging analysis of tracer kinetics and artificial intelligence 5. Synthesis of contrast media and radiopharmaceuticals 6. Molecular imaging using stable isotopes and radio isotopes
Surgery	Gastroenterological Surgery I	Professor	TAKETOMI Akinobu	1. Basic research and treatment on the surgical GI tract and HPB diseases. 2. Development of endoscopic and/or robotic surgery for the GI tract and HPB diseases. 3. Study for the pathogenesis and management of transplant immunology 4. Research for the improvement of organ preservation 5. Clarification of pathogenesis and development of new strategy of cell transplantation 6. Artificial Intelligence (AI) applied research in the field of gastroenterological surgery 7. Study of the surgical education and surgical training 8. Basic research and treatment on pediatric surgical oncology and pediatric hepato-biliary diseases 9. Basic and clinical research on the function of pediatric digestive system
	Gastroenterological Surgery II	Professor Associate Professor	HIRANO Satoshi SHICHINOHE Toshiaki	1. Clarification of pathophysiology and development of surgical treatments of the malignancy of the digestive system 2. Development of endoscopic surgery and its devices 3. Clinical research for perioperative management of highly invasive digestive surgeries 4. Study for multidisciplinary treatment of pancreato-biliary cancer 5. Molecular research on biomarkers associated with oncological malignancy 6. Exploring translational research on immunotherapy 7. Analysis of immune responses in tumor microenvironments 8. Study of gene therapy for intractable cancers 9. Study for surgical education 10. Study for bariatric and metabolic surgery
	Renal and Genitourinary Surgery	Professor	ABE Takashige	1. The mechanism of development of detrusor overactivity associated with lower urinary tract obstruction 2. Neural transmitted pathway at the bladder stimulation 3. The development of chronic rejection in transplanted kidney 4. The analysis of immunology in renal transplantation and development of the treatment of immunological regulation 5. The mechanism of carcinogenesis and progression in kidney cancer 6. The mechanism of metastasis and progression of urothelial cancer 7. QOL study on the treatment of prostate cancer 8. The development of minimal invasive surgery 9. Motion analysis of surgical devices in laparoscopic surgery
	Cardiovascular Surgery	Professor	WAKASA Satoru	1. Research on surgery for severe heart failure 2. Research on surgery for functional mitral regurgitation 3. Research on myocardial protection 4. Research on cold preservation and autophagy in the heart 5. Metabolic disturbances in atrial fibrillation 6. Endovascular stent graft therapy for aortic diseases
	Breast Surgery	Professor	TAKAHASHI Masato	1. Research on biological characteristics in breast cancer 2. Research on endocrine therapy in breast cancer 3. Research on mechanisms of breast cancer development and prevention 4. Research on the development of new breast cancer screening methods 5. Research on the development of breast cancer surgical methods 6. Research on the perioperative drug therapy for breast cancer 7. Research on drug therapy for metastatic breast cancer 8. Research on hereditary breast cancer
	Thoracic Surgery	Professor	KATO Tatsuya	1. Development of minimally invasive thoracic surgery 2. Surgery in multimodality therapy for lung cancer 3. Lung transplantation 4. Photodynamic therapy using nanoparticle for thoracic malignant tumors 5. Development of early diagnosis and molecular targeted therapy using next generation sequence for lung cancer 6. Photoimmunotherapy for lung cancer 7. Therapy for malignant mesothelioma and dissemination of cancer

	Department	Academic advisor		Research contents
Anesthesiology and Critical Care Medicine	Anesthesia and Perioperative Medicine	Professor	MORIMOTO Yuji	1.Cerebral protection and resuscitation 2.Care and Cure for the whole body against invasive biological stress 3.Neurotoxicity by anesthetics 4.Mechanism of postoperative cognitive dysfunction 5.Mechanism and treatment of pain 6.Mechanism of respiratory cycle and effect of drugs 7.Hyperbaric oxygen therapy 8.Patient management system in the operating room and the medical economics
	Acute and Critical Care Medicine	Professor	WADA Takeshi	1. Elucidation of pathophysiological mechanisms and control strategies of dysregulated biological host responses to various insults 2. Intensive care medicine 3. Cardiopulmonary and cerebral resuscitation 4. Toxicology 5. Disaster medicine 6. Emergency medical transport and information systems 7. Traumatology
Reconstructive Surgery and Rehabilitation Medicine	Orthopedic Surgery	Professor	IWASAKI Norimasa	1. Elucidation of pathology and development of therapeutic strategy for arthritis 2. Identification of role of glycans in bone and cartilage metabolism 3. Study of pathology and development of therapeutic strategy for osteoporosis 4. Clarification of pathology and development of therapeutic strategy for intervertebral disc degeneration 5. Biomechanical study for pathology and treatment options of musculoskeletal diseases 6. Research about pathology and treatment strategy for spinal cord and peripheral nerve diseases 7. Development of novel analytic tools for musculoskeletal diseases using AI 8. Research about genetic and epidemiologic aspects of musculoskeletal diseases 9. Development of regenerative medicine for musculoskeletal diseases
	Plastic and Reconstructive Surgery	Professor	UJIIE Hideyuki	1. Translational research in wound healing 2. Translational research in treatment of keloid 3. Development of surgical technique in free tissue transfer 4. Basic research in surgical oncology 5. Translational research of angiogenesis of vascular and lymphatic vessel 6. Regenerative medicine based on tissue engineering method 7. Development of therapeutic technique in cranio-maxillo-facial surgery
	Rehabilitation Medicine	Professor	MUKAINO Masahiko	1. Research on motion analysis of movement disorders 2. Research on activity monitoring 3. Research on functioning statistics for daily life 4. Research on telerehabilitation 5. Research on assessment methods for cognitive impairment
	Sports Medicine	Professor	KONDO Eiji	1. Motion analysis of athletes for performance improvement 2. Development of reconstruction surgery for osteoarthritis 3. Tissue regeneration of joints 4. Elucidation of remodeling mechanism of soft tissue 5. Medical application of synthetic polymer gel 6. Development of advanced treatment technology for musculoskeletal disorder
Reproductive and Developmental Medicine	Pediatrics	Professor Professor	MANABE Atsushi CHO Yuko	1. Establishing methods for early diagnosis of primary immunodeficiency diseases. 2. Health literacy in children, adolescence and young adults. 3. Clinical and molecular study for diagnosis and management in pediatric hematology and oncology. 4. Clinical and molecular study in pediatric stem cell transplantation and cell therapy. 5. Molecular analysis of pediatric endocrine disease. 6. Pathological analysis and therapeutic development using neurological disease model animals. 7. Histopathological analysis on the role of activated glomerular parietal epithelial cell in childhood kidney disease. 8. Development of a Mitochondrial Drug Delivery System for Myocardial Regeneration Therapy. 9. Study to improve outcome of neonatal chronic lung disease. 10. Basic and Clinical study in inborn errors of metabolism.
	Obstetrics and Gynecology	Professor	WATARI Hidemichi	1. Basic studies on the physiology of fetus and amnion 2. Clinical studies on the antenatal diagnosis and fetal therapy 3. Studies on the development of new strategy for the management of complicated pregnancies 4. Clinical studies on the treatment of infertility 5. Intrafollicular physiology 6. Molecular mechanism of genesis and metastasis of uterine cancer 7. Chemoresistance of female reproductive cancer 8. Molecular mechanism of placental growth and differentiation 9. Development of novel molecular-targeting therapy for ovarian cancer 10. Establishment of new effective screening method for cervical cancer
Sensory Organ Medicine	Dermatology	Professor	UJIIE Hideyuki	1. Molecular biological research of epidermis 2. Research on pathophysiology, diagnosis and treatment of genetic skin disorders 3. Research on pathophysiology, diagnosis and treatment of autoimmune blistering skin diseases 4. Research on pathophysiology, diagnosis and treatment of malignant skin tumors 5. Research on pathophysiology, diagnosis and treatment of atopic dermatitis 6. Research on tissue engineering and wound healing 7. Research on novel therapeutic modalities for genetic skin disorders
	Otolaryngology–Head and Neck Surgery	Professor Associate Professor	HOMMA Akihiro NAKAMARU Yuji	1. Basic research and clinical analysis for pathogenesis of sensorineural hearing loss 2. Basic research and clinical analysis of sensorineural hearing loss by viral infection 3. Basic research and clinical analysis of nasal allergy 4. Basic research and clinical analysis of Eosinophilic chronic rhinosinusitis 5. Immunological approach for head and neck cancer 6. Basic research and clinical analysis of chemotherapy for head and neck cancer 7. Molecular biologic studies on head and neck cancer
	Ophthalmology	Professor	ISHIDA Susumu	1. Retinal cell biology 2. Ocular Immunology and inflammation 3. Ocular neuroprotection 4. Ocular oncology and pathology 5. Pathophysiology and treatment of ocular surface disease 6. Ocular circulation and metabolism
Neurological Disorder	Psychiatry	Professor	KATO Takahiro	1. Neuro-immunological research on psychiatric disorders (microglia) 2. Reverse-translational research on psychiatric disorders (brain imaging and blood biomarkers) 3. Development of multifaceted diagnostic and assessment systems for psychiatric disorders (including 4. Development of therapeutic techniques for psychiatric disorders (application of psychoanalysis, cognitive 5. Psychopathological research (social anxiety disorder, social withdrawal, eating disorders, crime, and 6. Development of psychotropic drugs and psychopharmacological research 7. Neurophysiological and neuropsychological research on psychiatric disorders
	Neurosurgery	Professor	FUJIMURA Miki	1. Basic and clinical research on malignant glioma 2. Basic and clinical research on cerebrovascular disorders 3. Basic and clinical research on spinal cord disorders 4. Translational research on CNS regeneration 5. Surgical anatomy of skull base surgery 6. Genetic research on cerebrovascular disorders 7. Cerebral blood flow and metabolism 8. Clinical research on pediatric neurosurgery
	Neurology	Professor	YABE Ichiro	1. Molecular biology and genetics for neurological disorders 2. Immunohistochemistry of muscles and peripheral nerves 3. Basic studies for the disease mechanism and therapeutic approach in neuro-immunological disorders 4. Biomarkers in neurological disorders 5. Clinical neuroelectrophysiology 6. Cognitive brain function 7. Neuroepidemiology
Medical Biology	Neurobiology	Professor	KAMIYA Haruyuki	1. Neurobiology of axon 2. Neurobiology of synapse

	Department	Academic advisor		Research contents
Immunology	Immunobiology	Professor	SEINO Kenichiro	1. Tumor Immunology 2. Transplant Immunology (including studies of xenotransplantation using gene modified pigs) 3. Study and development of cell therapy for inflammatory diseases
	Psychoimmunology	Professor	MURAKAMI Masaaki	1. Molecular mechanism for T cell-specific autoimmune disease development by the gateway reflexes 2. Bioelectronic medicine by the gateway reflexes and the VNS 3. Molecular mechanisms underlying inflammation development via the IL-6 amplifier activation 4. Research for functional roles of SNPs associated with chronic inflammatory diseases (the IL-6 amplifier) 5. Development of novel drugs and biomarkers for diseases associated with chronic inflammation (the IL-6 amplifier)
	Molecular Mechanisms	Professor	NODA Nobuo	1. Molecular mechanism of autophagy 2. Molecular mechanism of life phenomena regulated by liquid-liquid phase separation 3. Elucidating the molecular functions of biomolecules based on their structure
Pathological Oncology	Stem Cell Biology	Professor	KONDO Toru	1. Molecular mechanism involved in the maintenance and differentiation of neural stem/precursor cells 2. Molecular mechanism of neural stem/precursor aging 3. Characterization of cancer stem cells and analysis of their therapeutic targets 4. Relationship between neural stem cells and age-related disorders.
	Biomedical Oncology	Professor	SONOSHITA Masahiro	1. Studying how cancers develop 2. Elucidating the mechanisms of how drug resistance occurs in cancer 3. Generating novel anti-cancer therapeutics