# Hokkaido University Graduate School of Medicine Application Guidelines 2024

## Master's Program in Medical Science Medical Science Course Special Selection for International Applicants

(For enrollment October 2024)

**Hokkaido University Graduate School of Medicine** 

# Outline of Master's Program in Medical Science (Excerpted version)

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"

Admission shall be determined individually based on the comprehensive evaluation of Oral examination, and application 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			Matters related to ②	Matters related to ③
Special	0ral	0	<b>V</b>	<b>/</b>	<b>/</b>
Selection for	examination				
International	Application	$\circ$	<b>✓</b>	<b>✓</b>	
Applicants	Documents				

The mark  $\odot$  indicates elements that are particularly important

The mark  $\bigcirc$  indicates elements that are important

 $oldsymbol{\prime}$  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 Master's Program, we aim to nurture individuals who have basic knowledge and skills to play active roles in their own field as (i) researchers and educators in the fields of medicine, life science and public health, (ii) highly specialized professionals in the fields related to medical care and public health, or (iii) experts in health services and health policy management. In order to develop such human resources, in Master's Program in Medicine, we grant the diploma under the following policies.

We grant Master of Medical Science to those who have attained the competencies to continuously contribute to the development of medical and life science research field by understanding the backgrounds of the medical and life science research, making plans for research theme of biologic importance or hypotheses to be validated, analyzing the obtained experimental or research 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.

At Special Selection for International Applicants, only applications for the following course will be accepted.

#### [Medical Science Course]

This course aims to train highly specialized professionals who are capable of playing active roles with broad knowledge of medical and life science fields.

#### 4. Course Guidance

The following 4 subjects are offered in the Master's Program in Medical Science.

- Required Core Subjects (Kyoutsu Koa Kamoku)
- Required Subjects I (Hisshu Kamoku I)
- Required Subjects II (Hisshu Kamoku II)
- 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 Basic Medical Research" to provide basic and systematic knowledge of medical research, "Basic Experimental Methods and Research Designs" to master designing of research, basics of epidemiology and biostatics and so on. In line with "All-round Education", one of educational philosophies of Hokkaido University, students learn "Introduction to Medical Ethics" which cultivates bioethics for those engaged in medicine 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 I" are the subjects dedicated to the specialty of each course and offered according to the educational goal of each course.

"Required Subjects II" provides the courses aimed at developing skills of statistical analysis, presentation and so on. Furthermore, a supervisor in the department is in charge of "Required Subjects II", which grants credits to the practice and exercise related to master's thesis or the establishment of the research result of specific assignment.

"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.

Course	Medical Science Course			
Subjects	Subject	Credit		
Required Core Subjects (Kyoutsu Koa Kamoku)	Introduction to Basic Medical Research	1		
(Ryousu Roa Ramoka)	Basic Experimental Methods and Research Designs			
	Introduction to Medical Ethics	1		
	Introduction to Translational Research	1		
Required Subjects I (Hisshu Kamoku I)	Basic Research Methods in Medical Sciences I	1		
	Basic Research Methods in Medical Sciences II	1		
Required Subjects II	Scientific Presentation and Communication 1			
(Hisshu Kamoku II)	Presentation Skills I 1			
	Presentation Skills II	2		
	Master's Thesis Research in Medical Sciences	10		
Elective Subjects	Basic Principles of Medicine	[2]		
(Sentaku Kamoku)	Introduction to Clinical Genomics	2		
	Biomedical Informatics	1		
	Clinical Epidemiology	2		

	Clinical Pathology and Laboratory	1				
	Medicine					
	Introduction to Basic Medicine 1					
	Introduction to Clinical Medicine	1				
	Classes offered by Other Graduate Schools					
	Inter-Graduate School Classes					
	Required Subjects I and Required Subjects					
	II of Public Health Course (EXCEPT					
	Master's Thesis Research in Public Health)					
	Classes offered by Other Graduate Schools					
How to take subjects	Take 4 credits from Required Core Subjects, 2 credits					
	from Required Subjects I, 14 credits from Required					
	Subjects II, and 10 credits or more including Basi					
	Principles of Medicine offered by belonging departr					
	from Elective Subjects.					

<sup>\*</sup> 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 2 years.

Students should acquire 30 credits or more in majored fields, and pass the qualifying review and examination of the Master's thesis or research achievements of specific assignment after receiving required research instruction from the supervisor.

### Application Guidelines 2024 to Master's Program Special Selection for International Applicants (For enrollment October 2024)

#### 1. Major and Number of Students Admitted

Major in Medical Science, Medical Science Course: a few students

#### 2. Qualifications of Applicants

Those who cannot arrive in Japan during the date of examination designated by Hokkaido University Graduate School of Medicine and those who have obtained consent from the prospective supervisor prior to application. Applicants must satisfy either of the following requirements:

- (1) Those who have completed or are expected to complete 16 years of formal education overseas by 30 September, 2024.
- (2) Those who have been awarded or are expected to be awarded by 30 September, 2024 a degree equivalent to Bachelor's degree from an overseas university or an overseas educational institution (limited to the one which overall situation such as educational and research activities has been evaluated by the said foreign country's government or the agency accredited by related organization or the one which is specifically designated as equivalent to above by the Minister of Education, Culture, Sports, Science and Technology) by completing three or more years of curriculum (including completing the said curriculum by an overseas educational institution by way of distance education while residing in Japan or completing the curriculum at an educational institution which is specifically designated by the Minister of Education, Culture, Sports, Science and Technology).
- (3) Those who are not fallen under (2) and have completed 15 years of formal education overseas, and are deemed eligible to apply by Hokkaido University Graduate School of Medicine. (See Note)
- (4) 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 22 years of age or older by 30 September, 2024. (See Note)

**Note:** Those who apply under Qualifications of Applicants (3) or (4), must undergo qualification review. Refer to 3. (6) Qualification Review for further information.

Qualification review described in Qualifications of Applicants (4) is the process to examine research history and work experience of those who do not have university diploma.

#### 3. Application Procedure

#### (1) How to Apply

Applicants have to access the web site designated by the prospective supervisor. The website will be notified to only applicants who have obtained consent from the prospective supervisor. Applicants have to send the original application documents listed in the following (3) Application Documents 1-8 to Student Affairs Office by EMS or other international express mail.

#### (2) Application Period

#### **Online Registration:**

From 9:00 (Japan Standard Time), Monday, 10 June, 2024 to 17:00 (Japan Standard Time), Tuesday, 11 June, 2024

**Submission Deadline of Application Documents**: 17:00 (Japan Standard Time), Tuesday, 18 June, 2024 Original application documents must arrive at Student Affairs Office by EMS or other international express mail.

#### (3) Application Documents

Curriculum Vitae			
Paste your photograph (full-face, applicant's name printed on the back, 3cm) taken within 3 months before (2) Submission Deadline of Appli Documents in the space provided.  Must be issued by a university/college president or Dean, and submit a new or Copy not accepted.  Statement of Purpose  Download from the web site. Explain the following 3 points in English words.): 1. Past Research Activities, 2. The motive for the application is Future Goals.  Must be issued by a university/college president or Dean, and submit a new or Copy not accepted. (For graduates, 2. The motive for the application is Future Goals.  Must be issued by a university/college president or Dean, and submit a new or Copy not accepted. (For graduates, be sure that the certificate includes informate your degree).  *Those who graduated or will graduate from a university in China (excluding Those who graduates: a. Online Verification Report of Higher Education Qualification Certificate (教育:证书电子注册备案表) b. Certified copies of your Graduation Diploma(毕业证书)and Degree Diplom 位证书)that has been authorized by a university/college Expected Graduates: a. Online Verification Report of Student Record (教育部学籍在线验证报告) Obtain documents "a" above by requesting it at "中国高等教育学历证书自由tty/www.chsi.com.cn/xlcx/bgys.jsp. Also be sure that there are 15 or more days left until the expiration date of the verification at the time of its submission.  6 Copy of Passport The page which your photo and passport number are shown on.  If English is not your first language: Copies of the following test rest proof of English language proficiency taken within 2 years before the de of application. (e.g. TOEFL-ITP, TOEFL-IBT (Home Edition accepta of English language Skills ToEIC Listening & Reading Test, IELTS Academic) For TOEIC Listen Reading Test taken after April 2023, a printout of the PDF version of official digital certificate is acceptable.	1		Access the web site and fill in your information. Print them out on A4 size paper. (210mm x 297mm)
Copy not accepted.	2	Photo ID Card	Access the web site, fill in your information, and print it out on A4 size paper. Paste your photograph (full-face, applicant's name printed on the back, 4cm x 3cm) taken within 3 months before (2) Submission Deadline of Application Documents in the space provided.
words.): 1. Past Research Activities, 2. The motive for the application a Future Goals.  5 Certificate of (expected) Graduation or Copy not accepted. (For graduates, be sure that the certificate includes informated your degree).  *Those who graduated or will graduate from a university in China (excluding Thong Kong and Macau) must submit the following documents in addition Certificate of (Expected) Graduation (Completion).  Graduates:  a. Online Verification Report of Higher Education Qualification Certificate (教育:证书电子注册备案表)  b. Certified copies of your Graduation Diploma (毕业证书) and Degree Diplom 位证书) that has been authorized by a university/college Expected Graduates:  a. Online Verification Report of Student Record (教育部学籍在线验证报告)  Obtain documents "a" above by requesting it at "中国高等教育学历证书基http://www.chsi.com.cn/xlcx/bgys.jsp.  Also be sure that there are 15 or more days left until the expiration date of the verification at the time of its submission.  6 Copy of Passport  The page which your photo and passport number are shown on.  If English is not your first language: Copies of the following test resurroof of English language proficiency taken within 2 years before the de of application. (e.g. TOEFL-ITP, TOEFL-iBT (Home Edition accepta TOEIC Listening & Reading Test, IELTS Academic) For TOEIC Listening official digital certificate is acceptable.	3	Academic Transcripts	Must be issued by a university/college president or Dean, and submit a new original. Copy not accepted.
Graduation Completion  or Completion  or Copy not accepted. (For graduates, be sure that the certificate includes informat your degree).  *Those who graduated or will graduate from a university in China (excluding T Hong Kong and Macau) must submit the following documents in addition Certificate of (Expected) Graduation (Completion).  Graduates:  a. Online Verification Report of Higher Education Qualification Certificate (教育:证书电子注册备案表)  b. Certified copies of your Graduation Diploma (毕业证书) and Degree Diplom 位证书) that has been authorized by a university/college Expected Graduates:  a. Online Verification Report of Student Record (教育部学籍在线验证报告)  Obtain documents "a" above by requesting it at "中国高等教育学历证书查 http://www.chsi.com.cn/xlcx/bgys.jsp.  Also be sure that there are 15 or more days left until the expiration date of the verification at the time of its submission.  6 Copy of Passport  The page which your photo and passport number are shown on.  If English is not your first language: Copies of the following test rest proof of English language proficiency taken within 2 years before the de of application. (e.g. TOEFL-ITP, TOEFL-iBT (Home Edition accepta TOEIC Listening & Reading Test, IELTS Academic) For TOEIC Listen Reading Test taken after April 2023, a printout of the PDF version of official digital certificate is acceptable.	4	Statement of Purpose	Download from the web site. Explain the following 3 points in English (800 words.): 1. Past Research Activities, 2. The motive for the application and 3. Future Goals.
Hong Kong and Macau) must submit the following documents in addition Certificate of (Expected) Graduation (Completion). Graduates: a. Online Verification Report of Higher Education Qualification Certificate (教育語证书电子注册备案表) b. Certified copies of your Graduation Diploma (毕业证书) and Degree Diplom 位证书) that has been authorized by a university/college Expected Graduates: a. Online Verification Report of Student Record (教育部学籍在线验证报告) Obtain documents "a" above by requesting it at "中国高等教育学历证书查http://www.chsi.com.cn/xlcx/bgys.jsp. Also be sure that there are 15 or more days left until the expiration date of the verification at the time of its submission.  6 Copy of Passport  The page which your photo and passport number are shown on.  If English is not your first language: Copies of the following test resuproof of English language proficiency taken within 2 years before the de of application. (e.g. TOEFL-ITP, TOEFL-iBT (Home Edition accepta TOEIC Listening & Reading Test, IELTS Academic) For TOEIC Listen Reading Test taken after April 2023, a printout of the PDF version of official digital certificate is acceptable.	5	Graduation or	•
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	7		TOEIC Listening & Reading Test, IELTS Academic) For TOEIC Listening & Reading Test taken after April 2023, a printout of the PDF version of the
Applicants from EEA must confirm the Handling of Personal Informati page 8-9 and submit their consent. The form will be sent by the prosp supervisor via e-mail.	8		

Other documents may be designated by Hokkaido University Graduate School of Medicine and required to submit later as needed.

#### (4) Payment of Examination Fee

Follow the on-screen instructions after completing website registration, and pay the examination fee (JPY 30,000) by credit cards or Pay-easy. Please note that applicants have to pay transaction fee (JPY 500) besides examination fee (JPY 30,000).

Payment of examination fee is not required for applicants who wish to enroll on a Japanese Government (Monbukagakusho: MEXT) Scholarship, a Chinese Government (China Scholarship Council: CSC) Scholarship, or a Hokkaido University President's Fellowship.

Those who apply under 2. Qualifications of Applicants (3) or (4), must pay the examination fee after qualification review.

Examination fee is non-refundable unless:

- 1) The application was not made.
- 2) Application documents were not accepted due to the documents being incomplete.
- 3) Double-payments were made.

Please acknowledge that it takes considerable time for processing refund.

Please keep the receipt, as it is required when claiming the refund to Student Affairs Office.

#### (5) Important Notice

- 1) Online registration, payment of examination fee, and submission of application documents by post must be completed by (2) Submission Deadline of Application Documents.
  - 2) Printers and email address are required for online registration.
  - 3) Application documents submitted will not be returned.
- 4) Application documents should be sent to Student Affairs Office by safe and reliable methods such as Express Mail Service (EMS). Late arrival due to postal accident will not be accepted.
- 5) To check your Internet connection, we will conduct a connection test on Tuesday, June 25, between 9:00 and 17:00 (Japan Standard Time). The detailed date and time will be notified to your e-mail address.

#### (6) Qualification Review

Those who apply under 2. Qualifications of Applicants (3) or (4), must undergo individual qualification review. Applicants have to contact the prospective supervisor by email. Applicants have to send the original 2) Application Documents for Qualification Review 1-7 to Student Affairs Office by post.

#### 1) Application Period for Qualification Review

#### **Submission Deadline of Application Documents for Qualification Review:**

17:00 (Japan Standard Time), Monday, 27 May, 2024

Original application documents for qualification review must arrive at Student Affairs Office by post.

#### 2) Application Documents for Qualification Review

1	Application Form for Qualification Review	Sent by the prospective supervisor by email. Fill in your information. Print them out on A4 size paper. Paste your photograph in the space provided. (Full-face, applicant's name printed on back, 4cm x 3cm, taken within 3 months before 1) Submission Deadline of Application Documents for Qualification Review.)
2	Academic Transcripts	Must be issued by a university/college president or Dean, and submit a new original. Copy not accepted.
3	Certificate of (expected) Graduation or Completion	Must be issued by a university/college president or Dean, and submit a new original. Copy not accepted. (For graduates, be sure that the certificate includes information on your degree).  *Those who graduated or will graduate from a university in China (excluding Taiwan, Hong Kong and Macau) must submit the following documents in addition to a Certificate of (Expected) Graduation (Completion).  Graduates: a. Online Verification Report of Higher Education Qualification Certificate (教育部学历证书电子注册备案表) b. Certified copies of your Graduation Diploma (毕业证书) and Degree Diploma (学位证书) that has been authorized by a university/college Expected Graduates: a. Online Verification Report of Student Record (教育部学籍在线验证报告) Obtain documents "a" above by requesting it at "中国高等教育学历证书查询":http://www.chsi.com.cn/xlcx/bgys.jsp. 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.
4	Copy of Passport	The page which your photo and passport number are shown on.
5	Proof of English Language Skills	If English is not your first language: Copies of the following test results as proof of English language proficiency taken within 2 years before the deadline of application. (e.g. TOEFL-ITP, TOEFL-iBT (Home Edition acceptable), TOEIC Listening & Reading Test, IELTS Academic) For TOEIC Listening & Reading Test taken after April 2024, a printout of the PDF version of the official digital certificate is acceptable.
6	(If applicable) Consent to Transfer and Process Personal Data	Applicants from EEA must confirm the Handling of Personal Information on page 8-9 and submit their consent. The form will be sent by the prospective supervisor via e-mail.
7	Others	<ul> <li>i) Certificate of research experience issued by the enrolled university or research institute.</li> <li>ii) Letter of Recommendation issued by supervisors or mentors of the enrolled university or research institute. (Free format.)</li> <li>iii) Certificates of academic ability equivalent to or greater than university graduates, or statement of academic achievements. (Such as scientific papers, books, and reports.)</li> <li>iv) Other documents may be designated by the prospective supervisor as needed.</li> </ul>

#### 3) Announcement of Results for Qualification Review

Results for qualification review will be notified to applicants by email by Friday, 7 June, 2024.

After qualification review, eligible applicants have to see (1) How to Apply, and do necessary procedures. Applicants have to send the original (3) 1) Application Form and Curriculum Vitae, 2) Photo ID Card, and 4) Statement of Purpose to Student Affairs Office by post.

#### (7) Application Documents should be submitted to:

Student Affairs Office

Hokkaido University Graduate School of Medicine Kita 15 Nishi 7, Kita-Ku, Sapporo, 060-8638 JAPAN

Email: d-tanto@med.hokudai.ac.jp

#### 4. Selection Procedure

Admission shall be determined individually based on the comprehensive evaluation of internet video interview (Zoom interview), and application documents submitted. Applicants must prepare equipment such as a web camera and the proper network environment for internet video interview by 5. Examination Date and Time.

#### 5. Examination Date and Time

Designated date between Tuesday, July 2, 2024 or Wednesday, July 3, 2024. Detailed examination date and time will be notified to applicants by email.

#### 6. Announcement of Acceptance

A Letter of Acceptance will be sent to each successful applicant by email at 10:00 (Japan Standard Time) on Friday, 12 July, 2024. And the original letter of acceptance will also be sent by post. Any inquiry by telephone or other source concerning examination result will not be accepted.

#### 7. Enrollment Procedure

#### (1) Registration Period

From 9:00 (Japan Standard Time), Wednesday, 11 September, 2024 to 17:00 (Japan Standard Time), Friday, 13 September, 2024, excluding Saturday and Sunday

#### (2) Enrollment and Tuition Fees

1) Enrollment Fee: JPY 282,000 (estimate)

Please note that it is not required for those who is granted a Japanese Government (Monbukagakusho: MEXT) Scholarship, a Chinese Government (China Scholarship Council: CSC) Scholarship, or a Hokkaido University President's Fellowship.

2) Tuition Fee: JPY 267,900 per half year (JPY 535,800 per year) (estimate)

Tuition of the first period should be paid using the bank remittance form sent from Hokkaido University Graduate School of Medicine in middle of November 2024.

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

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

#### 8. Important Notice

- (1) Before filling in a column of the preferred field on the application for enrollment in 3. (3) 1) Application Form and Curriculum Vitae, refer to the following URL https://www.med.hokudai.ac.jp/en/faculty/ and consult your prospective supervisor about research contents and plan.
- (2) Incomplete application documents and/or lack of documents will not be processed.
- (3) Submitted documents are considered final and revision after submission will not be accepted.
- (4) Enrollment may be cancelled at any time, should submitted documents be found to contain false information.
- (5) Application documents must arrive at Student Affairs Office by post. Consider postal service situation and send early enough to be arrived. Late arrival after 3. (2) Submission Deadline of Application Documents will not be accepted.
- (6) Any inquiry regarding examination and enrollment should be sent by email.

#### 9. 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.

May 2024 Student Affairs Office Hokkaido University Graduate School of Medicine Kita 15 Nishi 7, Kita-Ku, Sapporo, 060-8638, JAPAN Phone: +81-(0)11-706-5018 \* Japanese only

## |%Organization of the Graduate School of Medicine and main research contents

	Department		Academic advisor	Research contents
				Cell integrity based on cellular metabolisms and nuclear geometry
	Molecular Biology	Professor	HATAKEYAMA Shigetsugu	Nano structures controlling organelle dynamics     Molecular bases of cancer therapeutic resistance
Biochemistry				Ubiquitin system in protein degradation
	Medical Chemistry	Professor	HATAKEYAMA Shigetsugu	Intracellular signal in cancer and immune system     Functional analysis of proteins/lipids by mass spectrometry
				Visualization of expression and localization of neural signaling molecules
Anatomy	Anatomy and Embryology	Professor	WATANABE Masahiko	Glial roles in neural development and function     Molecular mechanisms for synaptic circuit development
Tillatolliy	Histology and Cytology	Professor	FUJIYAMA Fumino	Anatomy and function of central nervous system
	Thistology and Cytology	1 10103301	T COTTAWN T UNITIO	Elucidation of Parkinson's disease     Visualization of cell functions using fluorescence bioimaging
	Cell Physiology	Professor	OHBA Yusuke	Visualization of een functions using indorescence olomaging     Spatiotemporal regulation of intra- and intercellular signal transduction
	Cen i nysiology	110105501	OHDII Tusuke	Regulation of membrane dynamics     Development and application of fluorescent biosensors
Physiology				Neural control of voluntary movements
	Systems Neuroscience	Professor	TANAKA Masaki	Functional analysis of the frontal cortex     Functional analysis of the basal ganglia
				Functional analysis of the cerebellum
				Neuropharmacological studies of the histaminergic nervous system     Analysis of neuropeptides in wakefulness
				Analysis of neuropeptues in wakefulness     Drug development targeting sleep disorders
	Neuropharmacology	Professor	YOSHIKAWA Takeo	4. Molecular biology of hyaluronic acid
Pharmacology				Optical imaging of learning-induced neural circuit reorganization     Neural basis of autism spectrum disorder and social behavior
				7. Cognitive mechanisms of virtual reality
	Cellular and Molecular			Development of novel neural activity imaging techniques     Analysis of the effects of tobacco smoke components on cellular functions
	Pharmacology	Professor	YOSHIKAWA Takeo	2. Research on neutrophil activation and its control mechanism
	3,			Elucidation of toxicological mechanisms and pathophysiological effects of environmental chemicals     Research on inflammation and cancer
		Professor		2. Research on inflammation and tissue regeneration
	Pathology	roiessor	TANIGUCHI Koji	Mechanisms of autoimmune and inflammatory diseases     Research on tight junction
				5. Development of new cancer-on-chip to elucidate the pathophysiology of intractable cancer
Pathology				Human pathology and surgical pathology     Research on diagnostic and surgical pathology
				2. Cancer progression, cancer stem cells, and therapeutics.
	Cancer Pathology	Professor	TANAKA Shinya	Profiling analysis of various diseases.     Bioimaging and rapid-immunohistochemistry.
	cancer ratheres			5. Biomaterial for analysis of cellular reprogramming.
				NGS-based research on brain tumor and sarcoma.     Student-oriented innovative research.
		Professor	TANAKA Shinya	Diagnostic surgical pathology (including cytopathology)
	Diagnostic Pathology	Associate		Application of molecular studies in diagnostic pathology     Quality control and standardization in pathology laboratories
		Professor	TOMARU Utano	Clinicopathologic analysis of human malignancy
				Host protection mediated by TLR and NLR family proteins     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
	Immunology	Professor	KOBAYASHI Koichi	CITA/NLRC5: a key regulator of MHC class I genes     Mechanisms of immune evasion by cancers
Microbiology and				6. Development of novel biomarkers and immunotherapies for cancer patients
Immunology				Vaccine development against cancer and coronaviruses using a novel vaccine technology     Studies on viral and host factors involved in the propagation of hepatitis virus (HBV, HCV)
	Microbiology and			Studies on the mechanism of pathogenicity of virus infection through molecular
	Infectious Diseases	Professor	FUKUHARA Takasuke	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)
				Environmental epidemiological studies     Quasi-experimental assessment of population-level health interventions (interrupted time series, instrumental).
	Hygiene	Professor	UEDA Kayo	3. Emergency preparedness for climate change, natural disasters, and infectious diseases in healthcare facilities
				Epidemiological study on behavioral and psychological symptoms of dementia     Assessment of health effects of climate change and global environment
				1. Studies on diet, physical activity, social environment and physical and mental health in adults and elderly
	Public Health	Professor	TAMAKOSHI Akiko	Study of factors related to the health and development of children from conception     Research on infertility prevention and treatment support
				4. Study on post COVID-19 condition
	Forensic Medicine	Professor	MATOBA Kotaro	<ol> <li>Studies on medico-legal diagnosis of cause of death, postmortem interval, wounds, asphyxia, identification and postmortem CT diagnosis.</li> </ol>
				2. Studies on the mechanisms of generation concerning exogeneous unusual findings.
				Study on measures of healthcare and welfare for community-dwelling people in low fertility and ageing society
	Health Care Policy	Professor	TAMAKOSHI Akiko	2. Epidemiological study on HIV/AIDS/STIs and other includes Zoonosis and Life-Related diseases
				Study on risk perception/management/communication for infectious diseases     Development of indicators to measure/raise community awareness against diseases
	Biostatistics			Multivariate survival analysis
		Professor	HATAKEYAMA Shigetsugu	Development and evaluation methodology for diagnostic method and clinical prediction model     Development and application of clinical trial design
	210000000000	Associate	YOKOTA Isao	4. Joint model of longitudinal data with flexibility
Social Medicine		Professor		Clinical epidemiology using big-data and public database     Development of innovative teaching methods and materials
	Medical Education and General Medicine	Professor	TAKAHASHI Makoto	2. Development of innovative evaluation methods
		roiessor	1 AKAHASHI Makoto	Studies on factors that affect learning behavior     Studies on factors that affect physicians' carrier selection
	-	D 6	4.D.4.MO. M	Studies on data necessary for the development of advanced biological medicines
	Regulatory Science	Professor	ARATO Teruyo	Studies on developmental strategy for orphan drugs     Studies on post marketing surveillance of pharmaceuticals and medical devices
		I	1	13. Gradies on post marketing survemance of pharmaceuticals and medical devices

	Department		Academic advisor	Research contents
				Methodology for clinical research
	Translational Research	Professor	SATO Norihiro	Data manegement of clinical trial
	Manegement	110100001	SIII O IIOIIIIIIO	Management of cell processing for cell therapy and regenerative medicine
				4. Methodology for translational research support
	Dationt Cofaty	Professor	NASUHARA Yasuyuki	Research on the methodology about system approach to patient safety      Research on the methodology about system approach to patient safety
	Patient Safety	rolessor	NASOTIANA Tasuyuki	Research on the methodology for cultivating talented risk managers in hospitals     Research on the methodology about standardization of medical accident investigation
				Research on the methodology about standardization of medical accident investigation     Studies on the methodology of clinical trials
	Health Data Science	Professor	ITO Yoichi	Studies on the methodology of drug safety data analysis
				3. Studies on the multivariate data analysis
				research on disclosure of secondary findings in genomic medicine
	Clinical Genetics and			2. Research on newborn screening and genetic counseling
	Medical Ethics	Professor	YAMADA Takahiro	3. Research on tele-medicine in genetic counseling
	Medical Ethics			4. Research on genetic counseling in presymptomatic genetic testing
				5. Research on providing systems for prenatal genetic testing and genetic counseling
				Prospective cohort studies of asthma and/or COPD
	Pagningtony Madigina	Professor	KONNO Satoshi	2. Research on molecular mechanisms, diagnosis, and treatment of thoracic malignancies
	Respiratory Medicine	Professor	SAKAKIBARA Jun	Research on molecular mecahnisms of chronic airway disease and/or diffuse lung disease     Basic/clinical research on pulmonary hypertension and cardiac sarcoidosis
				Basic / clinical research on respiratory infectious diseases
	DI I			Basic and clinical research on autoimmune disorders
	Rheumatology,	Professor	ATSUMI Tatsuya	Research on the pathophysiology, diagnosis and therapy of diabetes, obesity and dyslipidemia
	Endocrinology and	Professor	NISHIO Saori	3. Research on the pathophysiology and therapy of endocrine diseases
	Nephrology			Basic and clinical research on renal diseases
				<ol> <li>Research for pathophysiology, diagnosis and treatment of liver diseases</li> </ol>
	Gastroenterology and	Professor	SAKAMOTO Naoya	2. Research for pathophysiology, diagnosis and treatment of pancreatobiliary diseases
	Hepatology	Professor	ONO Shoko	3. Research for pathophysiology, diagnosis and treatment of malignant tumor of digestive system
	Trepatology	TOTOGOGOT	ONO Snoko	Research for pathophysiology and treatment of inflammatory bowel diseases
		-		Research for pathophysiology, diagnosis and treatment of digestive diseases     Reasearch on pathophysiology, diagnosis, and treatment for ischemic heart disease
				Reasearch on pathophysiology, diagnosis, and treatment for ischemic neart disease     Molecular biological and clinical reasearch on pathophysiology and treatment for heart failure
		Professor	ANZAI Toshihisa	Notecular biological and clinical reasearch on pathophysiology and treatment for heart failure     Reasearch on etiology, diagnosis, and treatment for cardiomyopathy
	Cardiovascular Medicine	Associate	NAGAI Toshiyuki	Reasearch on molecular and genetic basis, diagnosis, and treatment for lifestyle disorder
		Professor	NAGAI Tosmiyuki	5. Reasearch on etiology, diagnosis, and treatment for arrhythmia
				6. Development of non-invasive technique for diagnosis of heart disease
		Professor	KONNO Satoshi	Research on diagnosis and treatment of malignant tumors
	Medical Oncology			2. Research on molecular pathophysiology, diagnosis and treatment of lung cancers and mediastinal tumors
Internal Medicine				<ol><li>Research on molecular pathophysiology, diagnosis and treatment of tumors of the digestive organs</li></ol>
				Research on cancer drug therapy
				5. Research on molecular targeting therapy of cancer
				Research on genome analysis, companion diagnostics and precision medicine of cancer     Research on molecular pathogenesis, diagnosis, treatment of hematological malignancies
				Research of molecular pathogenesis, diagnosis, treatment of nematorogical mangnancies     Basic and clinical research to improve outcome of hematopoietic stem cell transplantation and immune cell
	Hematology	Professor		Basic research to understand cellular & molecular biology of hematopoiesis
			TESHIMA Takanori	Basic and clinical research on cell therapies against viral infections and malignant diseases
				5. Pathogenesis, diagnosis, and treatment of immunodeficiencies, including AIDS
				Reserch to improve safety and efficacy of blood transfusion
				7. Research on platelet function, blood coagulation and fibrinolysis
				<ol> <li>Research for impaired health caused by stresses</li> </ol>
				2. Research for evidence based medicine in health examination
	Health Care Medicine	Professor	ASAKURA Satoshi	3. Research for occupational mental health
		1 10168801	ASAKUKA Satosiii	
				4. Research for adolescent mental health
				5. Research for therapeutic interventions of mental disorders
				Research for cancer genomics
		I		2. Research for genomic abnormality of cancer
	Clinical Cancer Genomics	Professor	KINOSHITA Ichiro	3. Research for epigenetic alteration of cancer
				Development of novel biomarker on cancer
	+	1	+	5. Research for molecular targeted therapy on cancer
		I		1. Research for external irradiation
Radiology	Radiation Oncology	Professor	AOYAMA Hidefumi	Research for high precision X ray therapy     Research for Particle therapy and Proton therapy
		Professor	110 171WILL THUCKUM	Research for medical physics
		1		5. Research for radiobiology for radiotherapy
		1		Diagnostic radiology using CT, MRI, ultrasound, and nuclear medicine
		1		Vasicular imaging and interventional radiology
	Diagnostic Imaging	Professor KU	KIIDO Kaharda	3. Radioisotope treatment
			KUDO Kohsuke	4. Imaging analysis of tracer kinetics and artificial intelligence
				Synthesis of contrast media and radiopharmaceuticals     Molecular imaging using stable isotopes and radio isotopes

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Professor   Carterocetarchigical Surgery   Professor		-			
Professor   Prof					
Professor   Prof					7. Study of the surgical education and surgical training
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Surgery  Renal and Centiourinary Surgery  Renal and Centiourinary Surgery  Professor  TAKETOMI Akmoba AHE Talianshige  Professor  TAKETOMI Akmoba AHE Talianshige AHE Talianshige AHE Talianshige AHE Talianshige AHE Talianshige AHE Talianshige				SHICHINOHE Toshiaki	
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S. The development of minimal monable surgery			Professor		
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Cardiovascular Surgery					, , , , , , , , , , , , , , , , , , , ,
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Professor   Prof		Breast Surgery	Professor	TAKAHASHI Masato	5. Research on the development of breast cancer surgical methods
Record of minimally invasive thoracic surgery   Professor   KATO Tatauya   1. Development of minimally invasive thoracic surgery   2. Surgery in mallimodally therapy for lung cancer   1. Imperpendiction   2. Surgery in mallimodally therapy to lung cancer   1. Imperpendiction   2. Surgery in mallimodally therapy to lung cancer   1. Imperpendiction   2. Surgery in mallimodally therapy to lung cancer   1. Imperpendiction   2. Surgery in mallimodally therapy to lung cancer   1. Imperpendiction   2. Surgery in mallimodally therapy to lung cancer   1. Surgery to realize and cancer   1. Surgery for malliquant excepted from an discontination of cancer   1. Surgery for malliquant excepted from an discontination   2. Surgery   2. Surgery in mallimodally therapy to lung cancer   1. Surgery for malliquant excepted from an discontination of cancer   1. Surgery   2. Surgery in mallimodally therapy to lung cancer   1. Surgery   2. Surgery in mallimodally therapy to lung cancer   1. Surgery   2. Surgery in mallimodally therapy to lung cancer   1. Surgery   2. Surgery in mallimodally therapy to lung cancer   1. Surgery   2. Surgery in mallimodally therapy to lung cancer   1. Surgery   2. Surgery in mallimodally therapy to lung cancer   1. Surgery   2. Surgery in mallimodally therapy to lung cancer   1. Surgery   2. Surgery in mallimodally therapy to lung cancer   1. Surgery   2. Surgery in mallimodally therapy to lung cancer   1. Surgery   2. Surgery in mallimodally therapy to lung cancer   1. Surgery   2. Surgery in mallimodally therapy to lung cancer   1. Surgery   2. Surgery					
Thoracic Surgery   Professor   KATO Tatsuya   1. Development of minimally invasive thoracy surgery   2. Surgery in malimalialy invasive for his quarter   2. Surgery in malimalialy invasive for his quarter   3. Lung transplantation   4. Professor   4. Professor   5. Lung transplantation   4. Professor   6. Professor   6. Professor   7. Therapy for malignant enterphy using manoparticle for thoracic malignant tumers cancer   7. Therapy for malignant enterphy using manoparticle for thoracic malignant tumers cancer   7. Therapy for malignant enterphilicinos and dissemination of cancer   7. Therapy for malignant enterphilicinos and dissemination of cancer   7. Therapy for malignant enterphilicinos and dissemination of cancer   7. Therapy for malignant enterphilicinos in the solub color of particle of the whole body against mustice bodycal stress   7. Section   7. Sect					
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Thoracic Surgery					
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Season and the medical economics					
Medicine  Acute and Critical Care Medicine  Professor  MORIMOTO Yuji  I. Elucidation of the pathophysiology of host responses to various insults and establishment of their control 2. Multiple organ dysfunction syndrome—pathophysiology and treatment.  Cardiopulmonary cerebral resuscitation  Toxicology  Disaster medicine  Professor  Reconstructive  Reconstructive  Surgery and Reconstructive Surgery  Rehabilitation Medicine  Rehabilitation Medicine  Professor  Professor  Professor  WAMAMOTO Yuhei  Rehabilitation Medicine  Professor  WAMAMOTO Yuhei  Sports Medicine  Professor  WAMAMOTO Eiji  Professor  KONDO Eiji  Professor  KONDO Eiji  Professor Morimonal and Professor Morimon of the pathophysiology and treatment discourage transcribed in a pathophysiology and treatment discourage transcribed in a pathophysiology and treatment of poten of pathophysiology and treatment of poten pathophysiology and pathophysiology a	Anesthesiology and				
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Reconstructive   Plastic and   Reconstructive Surgery   Professor   Professor   YAMAMOTO Yuhei   Professor   Pro					
Orthopedic Surgery  Professor  IWASAKI Norimasa  Professor  Professor  Professor  Professor  Professor  Professor  Professor  Professor  IWASAKI Norimasa  2. Identification of role of glycans in bone and cartilage metabolism 3. Study 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 options of musculoskeletal diseases using AI 8. 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 pathology and treatment strategy for spinal cord and peripheral nerve diseases 9. Development of novel analytic tools for musculoskeletal diseases using AI 8. Research about pathology and treatment options of musculoskeletal diseases 9. Development of novel analytic tools for musculoskeletal diseases using AI 8. Research about pathology and treatment options of musculoskeletal diseases 9. Development of novel analytic tools for musculoskeletal diseases 9. Development of user periatric and epidemiologic aspects of musculoskeletal diseases 9. Development of user periatric and epidemiologic aspects of musculoskeletal diseases 9. Development of representative medicine for musculoskeletal diseases 9. Development of representative medicine for musculoskeletal diseases 9. Development of representative medicine for musculoskeletal diseases 9. Development of reconstructive for function free tissue transfer 1. Translational research in wound healing 1. Translational research in wound healing 1. Translational research in treatment of keloid 1. Development of analysis of anal					8. Traumatology
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5. Medical application of synthetic polymer gel		Sports Medicine	Professor	KONDO Eiji	
6. Development of advanced treatment technology for musculoskeletal disorder			1		5. Medical application of synthetic polymer gel
		1	L		6. Development of advanced treatment technology for musculoskeletal disorder

	Department		Academic advisor	Research contents
Reproductive and	Pediatrics	Professor Professor	MANABE Atsushi CHO Yuko	1. Establishing methods for early diagnosis of primary immunodeficiency diseases. 2. Molecular epidemiological studies on macrolide-resistant mycoplasma pneumoniae 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 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.
Developmental Medicine	Obstetrics and Gynecology	Professor	WATARI Hidemichi	Basic studies on the physiology of fetus and amnion     Clinical studies on the antenatal diagnosis and fetal therapy     Studies on the development of new strategy for the management of complicated pregnancies     Clinical studies on the treatment of infertility     Intrafollicular physiology     Molecular mechanism of genesis and metastasis of uterine cancer     Chemoresistance of female reproductive cancer     Molecular mechanism of placental growth and differentiation     Development of novel molecular-targeting therapy for ovarian cancer     Establishment of new effective screening method for cervical cancer
	Dermatology	Professor	UJIIE Hideyuki	Molecular biological research of epidermis     Research on pathophysiology, diagnosis and treatment of genetic skin disorders     Research on pathophysiology, diagnosis and treatment of autoimmune blistering skin diseases     Research on pathophysiology, diagnosis and treatment of malignant skin tumors     Research on pathophysiology, diagnosis and treatment of atopic dermatitis     Research on tissue engineering and wound healing     Research on novel therapeutic modalities for genetic skin disorders
Sensory Organ Medicine	Otolaryngology-Head and Neck Surgery	Professor Associate Professor	HOMMA Akihiro NAKAMARU Yuji	Basic research and clinical analysis for pathogenesis of sensorineural hearing loss     Basic research and clinical analysis of sensorineural hearing loss by viral infection     Basic research and clinical analysis of nasal allergy     Basic research and clinical analysis of Eosinophilic chronic rhinosinusitis     Immunological approach for head and neck cancer     Basic research and clinical analysis of chemotherapy for head and neck cancer     Molecular biologic studies on head and neck cancer
	Ophthalmology	Professor	ISHIDA Susumu	Notecular hologies studies on head and neck cancer     Retinal cell biology     Ocular Immunology and inflammation     Ocular neuroprotection     Coular oncology and pathology     Pathophysiology and treatment of ocular surface disease     Ocular circulation and metabolism
	Psychiatry	Professor	YABE Ichiro	Psychopathology of psychiatric diseases     Development of new psychotherapy techniques     Development of new diagnostic techniques and new treatment of epilepsy     Molecular genetic study of psychiatric diseases     Development of animal models of psychiatric diseases and neuroscience     Development of new psychotropic drugs and psychopharmacology     Neuroimaging in psychiatric diseases     Neurophysiological and neuropsychological study of psychiatric diseases
Neurological Disordor	Neurosurgery	Professor	FUJIMURA Miki	Basic and clinical research on malignant glioma     Basic and clinical research on cerebrovascular disorders     Basic and clinical research on spinal cord disorders     Translational research on CNS regeneration     Surgical anatomy of skull base surgery     Genetic research on cerebrovascular disorders     Cerebral blood flow and metabolism

	Department		Academic advisor	Research contents
				Molecular biology and genetics for neurological disorders     Immunohistochemistry of muscles and peripheral nerves     Basic studies for the disease mechanism and therapeutic approach in neuro-immunological disorders
	Neurology	Professor	YABE Ichiro	4. Biomarkers in neurological disorders 5. Clinical neuroelectrophysiology 6. Cogitive brain function 7. Neuroepidemiology
Medical Biology	Neurobiology	Professor	KAMIYA Haruyuki	Neurobiology of axon     Neurobiology of synapse
	Immunobiology	Professor	SEINO Kenichiro	Tumor Immmunology     Transplant Immunology (including studies of xenotransplantation using gene modified pigs)     Study and development of cell therapy for inflammatory diseases
Immunology	Psychoimmunology	Professor	MURAKAMI Masaaki	Molecular mechanism for T cell-specific autoimmune disease development by the gateway reflexes     Bioelectronic medicine by the gateway reflexes and the VNS     Molecular mechanisms underlying inflammation development via the IL-6 amplifier activation     Research for functional roles of SNPs associated with chronic inflammatory diseases (the IL-6 amplifier)     Development of novel drugs and biomarkers for diseases associated with chronic inflammation (the IL-6
	Molecular Mechanisms	Professor	NODA Nobuo	Molecular mechanism of autophagy     Molecular mechanism of life phenomena regulated by liquid-liquid phase separation     Elucidating the molecular functions of biomolecules based on their structure
Pathological	Stem Cell Biology	Professor	KONDO Toru	Molecular mechanism involved in the maintenance and differentiation of neural stem/precursor cells     Molecular mechanism of neural stem/precursor aging     Characterization of cancer stem cells and analysis of their therapeutic targets     Relationship between neural stem cells and age-related disorders.
Oncology  Biomedical Oncology Profess	Professor	SONOSHITA Masahiro	Studying how cancers develop     Elucidating the mechanisms of how drug resistance occurs in cancer     Generating novel anti-cancer therapeutics	