Admission in Spring (April)2025

Graduate School of Medicine (Doctoral Program)

Student Application Guideline

National University Corporation

Shiga University of Medical Science

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Our Philosophy

As the university which is supported by its local community, contributes to the community and plays an active part in the world, we contribute to development of medical and nursing science and promotion of human health.

Graduate School Mission

We strive to nurture outstanding researcher and expert with advanced knowledge and capability in medicine and nursing. Our mission is to apply advances in medicine and nursing to the betterment of welfare in our society.

The Admission Policies

O Students that we want

In accordance with the University's philosophy, we welcome individuals who have the knowledge, ability, and skills necessary to become excellent medical researchers and medical professionals, and who will work diligently and enthusiastically to acquire advanced medical research capabilities, as described below.

- 1. Those who are motivated to contribute to the progress and development of medicine and health care through scientific exploration in the fields of medicine, health care, life science, and medicine-related interdisciplinary fields.
- 2. Those who have international perspectives and a passion to play an active role in the world.
- 3. Those who have respect for life and high ethical standards.
- 4. Those who are motivated to play an active role as a leader to overcome diseases in a wide range of fields in industry-academia-government.

O Student Selection

- Advanced Medical Science Course, Advanced Medicine for Clinicians Course and Interdisciplinary Medical Science and Innovation Course
 - 1. The Graduate School conducts a General Medicine and Life Science exam that separately tests students' fundamental understanding and thinking abilities in the following areas: medicine, health care and life science, and medicine-related interdisciplinary fields.
 - 2. We also conduct a foreign language examination (English) to measure students' global sense and their ability to express themselves.
 - 3. In addition to the two abovementioned examinations, candidate students must undergo an interview that confirms their passion for research, cooperative abilities, and high ethical standards.
- NCD Epidemiology Leader's Course
 - 1. We conduct an essay examination to test applicants' basic knowledge about reducing the incidence of Non-Communicable Diseases (NCD).
 - 2. We conduct a foreign language examination (English) to measure students' global sense and their ability to express themselves.

- In addition to the two abovementioned examinations, candidate students must undergo an interview that confirms their passion for research, cooperative abilities, high ethical standards, and language ability.
- 4. We evaluate candidates by their submissions to confirm their passion for reducing the incidence of NCD in the world, doing research, and developing their language abilities.

The Curriculum Policies

To allow students to acquire advanced knowledge, skills, and ability stated in the Degree Policies, the curriculum is organized as follows.

1. Course Organization

The Graduate School provides common subjects (or core area subjects) so that students can acquire the specialized knowledge and research skills necessary for medical research, as well as sufficient knowledge and a robust understanding of ethics, including medical ethics, bioethics, and research ethics. In elective subjects, the School allows student to acquire cutting-edge knowledge and research skills through lectures, exercises, and practical trainings in each specialized area, and to develop the ability to carry out research independently.

2. Education Methods

- (1) By establishing four courses, the Graduate School provides students with an organically systematized education as well as research opportunities offered by our entire faculty. In addition, multiple faculty members shall be responsible for each student.
- (2) The Graduate School stipulates several common and elective subjects. The contents of the common subjects are as follows:
 - ①The Advanced General Medicine and Technical Seminar cultivates the expertise and research skills required to become a medical researcher.
 - ②Introduction to Ethics in Medicine and Life Science familiarizes students with knowledge and standards in the fields of medical ethics, bioethics, and research ethics.
 - ③Introduction to Epidemiology and Medical Statistics fosters the knowledge of epidemiology and statistics that is necessary to conduct medical research.
 - ④ A seminar on the Integration of Fundamental Knowledge and Clinical Research encourages students to learn knowledge and methodological approaches beyond the scope of conventional basic and clinical studies. Elective Subjects foster students' ability to independently conduct research by utilizing the most advanced knowledge in their areas of specialization, and their research skills.
- (3) Each course provides its own characteristic subjects as indicated below:
- ① The Advanced Medical Science Course fosters students' ability to conduct independent research by providing them with opportunities to participate in advanced and unique research projects that involve fundamental research ethics and the most advanced research techniques.

- ②Advanced Medicine for Clinicians Course develops students' ability to play leading roles in medical settings by educating them on medical-related ethical and legal issues with a focus on clinical research. Additionally, the course supports students in their training to qualify as specialized physicians by providing the medical techniques that are necessary to serve as experts.
- ③The Interdisciplinary Medical Science and Innovation Course fosters students' ability to play important roles in areas of the industry-academia collaboration by providing not only medical but also interdisciplinary knowledge, including engineering and physics, as well as practical research skills.
- ④ The NCD Epidemiology Leader's Course covers epidemiology, clinical epidemiology, and public health, and fosters leaders in areas of the industry-academia-government collaboration to play active roles in reducing the incidence of NCD. The course includes practical training with internships conducted outside the university.

3. Assessment of Learning Outcomes

Students' achievement of the learning objectives stated in the syllabus will be assessed objectively through multifaceted evaluation including examinations, reports, etc. In the third year, the progress of students' research will be evaluated in the Qualifying Examination (QE) based on their poster presentation, and the research advisory plan will be checked. Dissertation defense will be public for rigor and transparency, and examine candidates' knowledge, ability, and developmental potential.

The Diploma Policies

To produce medical professionals as stated in the Purpose of Education, the Graduate School of Medicine awards a Doctor of Philosophy (Medicine) degree to those who have attended the school for the prescribed period of time, completed the course requirements, passed the examinations, and acquired the following professional knowledge and skills.

- 1. Students must have the necessary expertise and research skills as medical researchers.
- 2. Students must possess the excellent knowledge and ethics in the fields of medical ethics, bioethics, and research ethics.
- 3. Students must have the ability to conduct research independently and disseminate research results to the world.
- 4. Students must have the ability to contribute to the society through research and promotion of medical science.
- 5. In addition to the above, students shall acquire the following abilities and knowledge for each of the Courses listed below:
 - (1) For the Advanced Medical Science Course, highly advanced knowledge and the ability to exert leadership in government, industry, and academic settings, including in international contexts.

- (2) For the Advanced Medicine for Clinicians Course, knowledge and medical skills required to serve as a specialist, and the ability to exert leadership in medical fields.
- (3) For the Interdisciplinary Medical Science and Innovation Course, interdisciplinary knowledge and research skills to integrate medical fields with other areas.
- (4) For the NCD Epidemic Leader's Course, capability in researching about epidemiology and clinical epidemiology and being leaders in the world of industry-academia-government who play an active role in reducing the incidence of NCD.

Student Application Guidelines

Admission Quota

30 students in Medical Science (including working students)

- -Advanced Medical Science Course
- -Advanced Medicine for Clinicians Course
- (* Including the Oncology Specialist Training Course and Forensic Generalist, Forensic Specialist Training Course)
- -Interdisciplinary Medical Science and Innovation
- NCD Epidemiology Leader's Course
- *1 For the details of "the Oncology Specialist Training Course" and "Forensic Generalist, Forensic Specialist Training Course," please refer to the attached application guidelines.
- (Note) For applicants who are willing to enroll while maintaining their job, "Special Exception of Education Method" according to Article 14 of Graduate Schools Establishment Standards shall apply, and we may provide education through appropriate means, which may include conducting classes or research guidance in the evening or other defined hours and periods.

Eligibility for Applicants

- 1. Those who have graduated or are expected to graduate from a school of medicine or dentistry of a university, or a six-year program of pharmacy or veterinary medicine by March 2025.
- 2. Those who have completed or are expected to complete 18 years of school education (must include medicine, dentistry, pharmacy, or veterinary medicine in the curriculum) by March 2025.
- 3. Those who have completed or are expected to complete 18 years of school education in a foreign country (must include medicine, dentistry, pharmacy, or veterinary medicine in the curriculum), by taking courses in correspondence education while in Japan provided by a school in a foreign country by March 2025.
- 4. Those who have completed a curriculum (an applicant must complete 18 years of school education in a foreign country (must include medicine, dentistry, pharmacy or veterinary medicine in the curriculum)) in an educational institution in Japan that is deemed to have courses offered by an overseas college according to the educational system of that country and have also been designated by the Ministry of Education, Culture, Sports, Science and Technology.
- 5. Those who have academic ability equivalent or superior to those who have completed a master's program or have earned a master's degree, and have also been designated by the Minister of Education, Culture, Sports, Science and Technology according to Notification No. 39 dated April 8, 1955, from the Ministry of Education and Notification No. 118 dated September 1, 1989, from the Ministry of Education, including those who are recognized to have an academic ability equivalent or superior to those who have graduated from a school of medicine, dentistry, or veterinary medicine.
- 6. Those who stayed in a six-year college for four years or more without graduating from it (a curriculum must include medicine, dentistry, pharmacy, or veterinary medicine) and are recognized by our school that they have earned a designated number of credits with excellent grades.
- 7. Those who have completed 16 years of school education in a foreign country (a curriculum must include medicine, dentistry, pharmacy, or veterinary medicine); those who have completed 16 years of school education in a foreign country (must include medicine, dentistry, pharmacy, or veterinary medicine in the curriculum), by taking courses in correspondence education provided by a school in a foreign country; or

those who have completed a curriculum (an applicant must complete 16 years of school education in a foreign country (must include medicine, dentistry, pharmacy, or veterinary medicine in the curriculum)) in an educational institution in Japan that is deemed to have courses offered by an overseas college according to the educational system of that country and have also been designated by the Minister of Education, Culture, Sports, Science and Technology, while being recognized by our school to have earned a designated number of credits with excellent grades.

- 8. Those who are recognized to have academic ability equivalent or superior to those who have graduated from a college (a curriculum must include medicine, dentistry, pharmacy, or veterinary medicine) through individual screening of requirements for admission and who will be 24 years old before or on March 31, 2025.
- (Notes) 1. Applicants for working students must apply to one of the above criteria, already work at the point of application, and obtain approval from their supervisor for enrollment while maintaining their job.
 - 2. If you apply, following any of the above criteria 5-8, please refer to "Screening of Eligibility for Application" on page 11.

Application Procedure

1. Period of Application

Monday, October 28 to Friday, November 1, 2024
(as indicated by the postmark on the envelope)

2. Address to Submit Application Documents and Inquiry

Admissions Division, Entrance Examination Section Shiga University of Medical Science Seta Tukinowa-cho, Otsu City, Shiga 520-2192, Japan

Tel: +81-77-548-2071 (direct)

3. Application Documents (Please use the designated forms for the documents marked with an asterisk*.)

	Required Document	Note
1	Application for Admission *	
2	Academic Transcript (Japanese or English)	Prepared and sealed by the President (Dean) of the school attended. Not required for those who have graduated/will graduate from our university. If you have completed/will complete a master's program, please <u>also submit</u> an academic transcript prepared and sealed by the President (Dean) of the graduate school attended.
3	Certificate of Graduation or Certificate of Expected Graduation (Japanese or English)	Prepared by the President (Dean) of the school attended. Not required for those who have graduated/will graduate from our university. If you have completed/will complete a master's program, please <u>submit only</u> a certificate of completion (or a certificate of expected completion) prepared by the President of the graduate school attended.
4	Payment verification form (included at the end of this booklet) *	After paying the 30,000 yen entrance examination fee using the deposit request form (designated by the university and included at the end of this booklet) between Friday, October 11and Friday, November 1,2024, at a bank, attach the "Certificate of Payment" with stamp of receipt in its designated spot.
5	Examination Admission Card/ Photo Card *	Attach your photo (upper front body, no hats, taken within the past three months, 4 cm high × 3 cm wide) on the designated column.
6	Envelope for sending an Examination Admission Card *	On the front of the envelope, write your name/address and attach postage stamps equivalent to 410 yen.
7	Address Card *	Fill in the address where you would like to receive a letter of acceptance. Please do not remove the sticker mount.
8	Letter of Permission for Examination from a Supervisor	Submit only if you are currently enrolled in another graduate school (unless expected to graduate by March 2025) or work in a government, medical institution, company, etc. (It is not required if you currently attend our university.) (Refer to the attached format example)
9	Personal Statement *	Form A In English (Only for applicants to the NCD Course)
10	Certification of English Proficiency *	Form B In English (Only for applicants to the NCD Course)
11	Recommendation letter *	Form C Prepared and sealed by a supervisor of the school or institute attended (Only for applicants to the NCD Course)

(Notes) 1. Applicants for the NCD Epidemiology Leader's Course should download Forms A-C from the following webpage. https://www.shiga-med.ac.jp/admission/graduate/requirements

Documents 1-8 are the same for all courses.

- 2. Any change in the description will not be accepted after submitting your application. Regardless of reasons, application documents will not be returned once they are submitted.
- 3. The documents submitted for eligibility screening also can be used for this application procedure. You do not need to submit the same documents twice.
- 4. If false information is found in the application documents, admission may be canceled even after enrollment.

4. Application Methods

(1) Send by Postal mail

Prepare application documents and send them in a designated envelop enclosed with this guideline by "registered express mail."

(2) Submit at School

Bring application documents to "2. Address to Submit Application Documents and Inquiry" on page 6. They will be accepted between 9:00 am and 5:00 pm. (except Saturdays and Sundays)

5. Consultation with our Faculty before the Submission of Application (Mandatory)

To determine a course you would like to apply for, please do not fail to consult with the faculty member whom you wish to receive guidance (refer to pages 23-31) before the submission of your application (or before Screening of Eligibility for Application if you take it.)

In that case, call our main phone number (077-548-2111) or contact the faculty member directly.

6. Considerations

- (1) An Examination Admission Card will be sent to an applicant by Monday, November 25. If you do not receive it by Wednesday, November 27, promptly contact "2. Address to Submit Application Documents and Inquiry" listed on page 6.
- (2) If you have any special considerations for taking the entrance examination or attending our school, such as a handicap, please inform us of "2. Address to Submit Application Documents and Inquiry" listed on page 5 prior to your application.
- (3) Refund procedure for those who are eligible to receive an examination fee refund:

 If you correspond with one of the following conditions, your examination fee can be refunded. If not, the fee will not be refunded for whatever reason. If you apply for a refund, contact "2. Address to Submit Application Documents and Inquiry" listed on page 6 by Wednesday, November 27, 2024.
 - ① Those who do not submit an application after paying the examination fee (application documents were neither submitted nor accepted)
 - ② Those who paid the examination fee twice by mistake

Selection Method, etc.

1. Selection Method

Written examination, interview, and application documents will be evaluated. Working applicants are not specially selected separately from other applicants. The same selection process will be used for working applicants.

2. Examination schedule

		Course name, examination type and point allocation					
Date	Hours	-Advanced Medical Science Course -Advanced Medicine for Clinicians Course -Interdisciplinary Medical Science and Innovation Course		Course -Advanced Medicine for Clinicians Course -Interdisciplinary Medical Science -NCD Epidemiology Lead Course		logy Leader's	
	10:00 – 11:30	English competence exam	120 points	English competence exam	50 points		
Tuesday, December 3	12:30 – 13:30	-Written exam on general medicine and life science	120 points	-Essay	50 points		
	14:00 –	Interview (individual)	*1	Interview (individual)	*2 *3		

- *1. In the interviews for Advanced Medical Science Course, Advanced Medicine for Clinicians Course, and Interdisciplinary Medical Science and Innovation Course, a scale is used to assess the qualities and aptitude to become an medical educator and/or researcher, and the results are taken into account in the overall evaluation.
- *2. For NCD Epidemiology Leader's Course applicants, an individual interview will be conducted in English to determine if the applicants are suitable for our program in terms of qualifications and academic ability.
- *3. For NCD Epidemiology Leader's Course applicants, the total points allotted for the interview and application documents (English essay, English proficiency, and recommendation letter) will be 140 points.
- (Note) 1. Only graphite pencils (including mechanical pencils), pencil sharpeners (not electronic), erasers, glasses, watches (with clock function only), eye drops, tissues, and handkerchief are allowed to use during the examination. Please take tissues out from their package.
 - 2. During the "English competence exam," it is permitted to bring in paper dictionaries (electronic dictionary are not allowed.). However, medical dictionaries are not allowed in this exam.
 - 3. Please be sure to refer to the attachment for information on the scope of the examination for General medicine and life science.
 - 4. Applicants for Advanced Medical Science Course, Advanced Medicine for Clinicians Course, or Interdisciplinary Medical Science and Innovation Course who have eligibility No.6 will take the essay exam instead of the exam on General medicine and life science.

3. Location

Shiga University of Medical Science (Please refer to the "Campus Map" on page 13.) Details will be sent together with the Examination Admission Card.

Result Announcement

10:00 am, Friday, December 13, 2024 (as scheduled)

Successful applicants' numbers will be announced on our homepage (https://www.shiga-med.ac.jp/), while "a letter of acceptance" will be sent to successful applicants.

We do not answer any inquiries regarding results by phone.

Enrollment Registration

- 1. Date and Time
 - · At school

From 9:00 am to 5:00 pm on Thursday, March 6, 2025

· By postal mail

Due by 5:00 pm, Friday, March 7, 2025

If you send documents via postal mail, please call the phone number given in item 2 below no later than 5:00 pm, Wednesday, March 5, 2025.

2. Place of registration (postal address) and contact

Admissions Division, Entrance Examination Section Shiga University of Medical Science Seta Tukinowa-cho, Otsu City, Shiga 520-2192, Japan

Tel: +81-77-548-2071 (direct)

- 3. Payment
 - Entrance fee: 282,000 yen
 Tuition fee: to be determined

 - ① Successful applicants will be notified of information regarding tuition fees, including the amounts and payment details, which are yet to be determined.
 - ② The tuition fee for the first half must be paid using the payment slip provided by SUMS before the end of May, 2025.
 - ③ The tuition fee may be paid for the entire year at once.
 - ④ When the tuition fee is revised during enrollment, the new fee shall be applied from the date the revision takes effect.

4. Exemption of Payment

Exemption and deferred payment of entrance fee and tuition may be applicable, and procedures for these will be announced separately to successful applicants. However, due to budgetary constraints, there may be cases where exemptions are not possible, so please carefully consider your payment plan for entrance and tuition fees.

5. Documents to Be Submitted

Documents and other information required for the registration will be announced with the letter of acceptance.

6. Considerations

- (1) <u>An Examination Admission Card will be necessary for the registration, so please be careful not to lose</u> it.
- (2) If you do not complete the registration by the above date, it will be considered as a withdrawal of enrollment.

Screening of Eligibility for Application

If you apply based on any of the criteria 5-8 listed in Eligibility for Applicants, you must undergo the following screening procedures to be certified as eligible to apply.

1. Application Documents for Screening

- (1) If you apply under criteria 5, submit following items from ① to ④.
- (2) If you apply under criteria 6 or 7, submit following items from ① to ⑥.
- (3) If you apply under criteria 8, submit following items from ① to ④ and ⑦.
 - ① Request for Screening of Eligibility for Application (designated form available)
 - ② Future research theme and research plan (about 700-800 words on an A4-size sheet)
 - 3 Academic Transcript (Prepared and sealed by the President (Dean) of the school attended.(Japanese or English) If you have completed/will complete a master's program, please also submit an academic transcript prepared and sealed by the President (Dean) of the graduate school.)
 - ④ Envelope for sending a screening result: Please write your name/address, and attach postage stamps equivalent to 410 yen on the front of a "Nagagata No. 3" size envelope (120 × 235 mm)
 - (5) Letter of recommendation (Prepared by the President (Dean) of the school attended. However, if you apply for NCD Course, please use the Form C.)
 - 6 Curriculum (copy) and syllabus (copy) of the school currently attended
 - ① Letter of recommendation (Prepared by the supervisor of a research/medical institution, etc. However, if you apply for NCD Course, please use the Form C.)

2. Period of Application

Monday, September 30 to Friday, October 4, 2024 (must arrive by 5:00 pm)

3. Place to Submit the Application Documents

The place and address for submission are the same as "2. Address to Submit Application Documents and Inquiry" on page 6.

If you send them by postal mail, send via "simplified registered mail" and write "Enclosed with the request for Screening of Eligibility for Application for Doctoral Program" in red ink on the front of the envelope. If you submit them at school, please bring it to the Admissions Division between 9:00 am and 5:00 pm.

4. Eligibility Screening

Eligibility screening is conducted based on documents you will submit. However, an interview may be required, and in that case, the applicant will be notified.

5. Screening Results

Screening results will be sent to the applicants by Thursday, October 24, 2024.

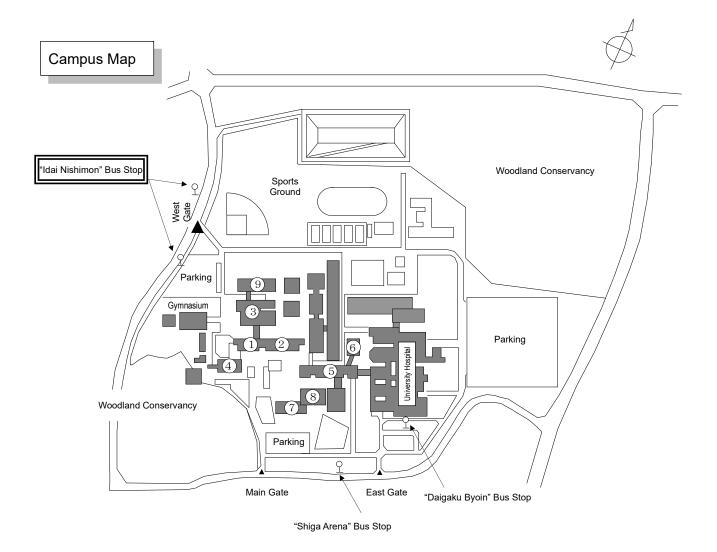
If you are eligible, please follow the application procedure stated in this guideline (refer to page 5.)

Please note that documents submitted for the Screening of Eligibility can be used for the subsequent application procedure, so there is no need to submit them in duplicate.

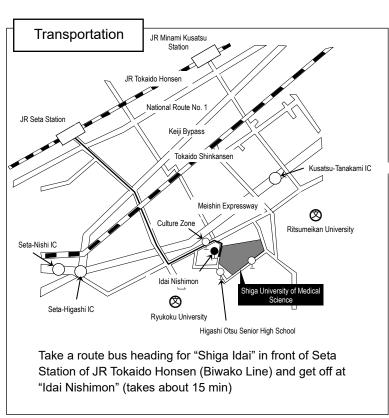
Handling of Private Information

Please be advised that private information obtained by the school during the admission process will be handled in accordance with the following conditions.

- 1. Private information will be handled in accordance with the "Act on the Protection of Personal Information" and "Protection of Personal Information Regulations Held by the National University Corporation, Shiga University of Medical Science (as translated)."
- 2. Name, address, and other private information on submitted application documents, etc., will be used for (1) applicant selection (application processing and selection), (2) notification of successful applicants, and (3) registration for enrollment.
- 3. Examination results obtained through applicant selection will be used to develop materials for future applicant selection.
- 4. Enrolling students' private information provided in application documents, etc. will be used for (1) teaching (student registration, study guidance, etc.), (2) support for students (health management, application for scholarship, etc.), and (3) administration regarding tuition payment.



- (1) General Education and Research Building
- (2) Medical Science Research Building
- (3) Basic Medicine Laboratories and Lecture Halls
- (4) Student Center
- (5) Clinical Medicine Education and Research Building
- (6) Clinical Lecture Halls
- (7) Administration Building and Health Management Center
- (8) Library and Multimedia Center
- (9) School of Nursing Building



Overview of the Graduate School of Medicine, Doctoral Program (Medical Science)

Purpose

The purpose of this Graduate School of Medicine (Doctoral Program) is to grow excellent researchers who have advanced research ability required to be independently engaged in creative research activities, high academic expertise that serves as a foundation for the former ability, and a sense of humanity; and our mission is to dedicate ourselves to the advancement of medical science and improvements in social welfare.

Structure

- Four courses are available under one major.
- "Oncology Specialist Training Course" and "Forensic Generalist, Forensic Specialist Training Course" has been established within Advanced Medicine for Clinicians Course.

Advanced Medical Science Course

Advanced Medicine for Clinicians Course

Advanced Medicine for Clinicians Course

Oncology Specialist Training Course

Forensic Generalist,
Forensic Training Specialist Course

NCD Epidemiology Leader's Course

Four courses are offered to grow (1) medical researchers and advanced clinicians who can perform unique and leading-edge research based on high academic expertise and broad knowledge in general medicine; (2) people with interdisciplinary knowledge and research abilities, for example, on medicine and engineering or medicine and biotechnology; and (3) physicians and medical researchers with high expertise, a sense of humanity, and high ethical standards.

Advanced Medical Science Course:

Students engage in medical research from basic medicine to clinical medicine and develop a doctoral dissertation to obtain the degree.

- Development of excellent researchers who have the advanced research abilities needed to be independently
 engaged in creative research activities, high expertise that serves as a foundation for the former abilities, high
 ethical standards, and a sense of humanity.
- 2. Development of highly motivated people who have an enthusiastic and inquisitive mind with creativity and who try to solve a variety of medical issues ranging from basic medicine to clinical medicine.

3. Development of physicians/medical researchers who have the latest knowledge and research abilities sufficient to play an active role in the international arena.

Advanced Medicine for Clinicians Course:

Students engage mainly in clinical research while working to be qualified as a specialist and develop a doctoral dissertation to obtain their degree.

- 1. Development of advanced clinicians who have excellent research abilities, advanced clinical skills, high ethical standards, and a sense of humanity.
- 2. Development of medical research to develop new diagnostic and therapeutic methods with the aim of adopting research outcomes in clinical medicine from clinical sites.
- 3. Study on medical ethics and legal theories with a focus on clinical research and the development of people who can be successful leaders in clinical sites.

Interdisciplinary Medical Science and Innovation Course:

Students study about the creation of a new academic discipline and medical innovation through the integration of medicine and other fields of study and develop a doctoral dissertation to obtain their degree. Classes are considered for those who have graduated from a department other than a medical school.

- 1. Development of researchers who have interdisciplinary knowledge and high research skills that transcend conventional academic disciplines, such as medicine, engineering, and biotechnology, combined with high ethical standards and a sense of humanity as clinicians.
- Development of people who lead innovations in medical science and practice with interdisciplinary knowledge and high research ability.
- Development of researchers who have not only broad knowledge on basic and clinical medicines but also
 interdisciplinary perspectives and research abilities to become successful in research institutions of college,
 private companies, and other organizations.

NCD Epidemiology Leader's Course:

Students research about NCD (Non-Communicable Disease) and develop a doctoral dissertation to obtain the degree.

- Development of well-balanced NCD leaders who possess medical knowledge concerning NCD, expertise in epidemiological methodology and biostatistics, as well as the ability to formulate novel solutions for improving public health in Asia.
- Development of global leaders who are internationally minded, proficient in English, and capable of engaging in logical discussion.
- Development of academic leaders with first-rate research skills based on extensive experience in large-scale epidemiologic research studies and international collaborative research.
- 4. Development of dynamic leaders capable of playing an active role at the front line of health-related industries and government agencies focused on public health issues.

List of Classes and Number of Credits

Refer to Appendix 1.

For Oncology Specialist Training Course and Forensic Generalist, Forensic Specialist Training Course please refer to "Student Application for Oncology Specialist Training Course" and "Forensic Generalist, Forensic Specialist Training Course," respectively.

Major Study Themes of Faculty

Refer to Appendix 2.

Study Guide

Advanced Medical Science Course, Advanced Medicine for Clinicians Course, Interdisciplinary Medical Science and Innovation Course:

- 1. Over the first, second, and third years, students must earn at least 30 credits in total, including 14 credits from compulsory subjects; and 4 credits from compulsory subjects among course subjects; and 12 or more credits from practice subjects.
- 2. In the third and fourth years, students should dedicate themselves in voluntary research activities, while receiving research guidance suitable for their research themes from their academic advisors, to nurture the advanced research abilities needed to be independently engaged in creative research activities and expertise that serves as foundations for the former abilities.
- For Oncology Specialist Training Course and Forensic Generalist, Forensic Specialist Training Course, please
 refer to "Student Application for Oncology Specialist Training Course" and "Student Application for Forensic
 Generalist, Forensic Specialist Training Course," respectively.

NCD Epidemiology Leader's Course:

- 1. During the four years of the program, students are required to earn 18 credits in the compulsory subjects and two credits in the elective subjects in core area; two credits in the elective subjects in supplemental area; and eight credits in the compulsory subjects and two credits in the elective subjects of practicum.
- 2. Starting in the second year, students will engage in their own research under the guidance of an academic advisor. They will participate in a training program at another institution in order to gain practical knowledge in association with their research subject. Through these experiences, students will acquire advanced research skills and become capable of conducting research independently and creatively.

Special Exception of Education Methods

In our Graduate School of Medicine (Doctoral Program), the "Special Exception of Education Method" has been adopted according to Article 14 of Graduate Schools Establishment Standards. We provide classes and research guidance not only during the daytime, but also in the evening and other special hours or periods so that workers can complete a program and receive education and research guidance while maintaining their job. (It does not apply to the Project for Reducing the Burden of Non-Communicable Disease (NCD) in the Asian Pacific Region.)

Grant of Academic Degree

- 1. The standard term of study is four years.
- 2. A doctoral degree (medicine) is granted.
- 3. The degree is granted to those who have stayed in this graduate school for four years or more, earned 30 credits or more in accordance with the above Study Guide, and passed a Qualifying Examination, furthermore passed a dissertation review and a final examination after receiving the necessary research guidance. However, those who have stayed in this graduate school for three years or more, achieved extraordinary research results, and fulfilled certain requirements may be granted a degree even if they stayed in the school for less than four years.

Advanced Medical Science Course, Advanced Medicine for Clinicians Course, Interdisciplinary Medical Science and Innovation Course List of Classes and Number of Credits

					Credits			
Subject classification		Class title	Grade	Lecture	Exercise	Practice	Note	
		Basic Science Fundamentals & Multidisciplinary SeminarsI	1-2	3				
ects		Basic Science Fundamentals & Multidisciplinary SeminarsII	1-2	3				
ubje	Foundational	Technical Seminar	1-2		2			
s uo	Foundational education	Bioethics and Medical Ethics	1-2	1			Compulsory	
Common subjects		Fundamentals of Epidemiology and Medical Statistics	1-2	1				
		Integrated Basic and Clinical SeminarI	1-2	2				
		Integrated Basic and Clinical SeminarII	1-2	2				
	Advanced Medical	Pioneer Seminar	1-2		2		Committee	
	Science Course	Frontier Medical Research Method	1-2			2	Compulsory	
, n		Clinical Research	1-2	2				
Course subjects	Advanced Medicine for Clinicians Course	Skills for Epidemiology and Medical Statistics	1-2			1	Compulsory	
se s		Medical Ethics and Law	1-2	1				
onic	Interdisciplinary	Biomedicine	1-2	1				
	Medical Science	Genome Science	1-2	1			Compulsory	
	and Innovation	Bioinformatics	1-2	1			Compulsory	
	Course	Infectious Diseases	1-2	1				
		Practice in Cellular Physiology A	1-3			2		
		Practice in Cellular Physiology B	1-3			2		
		Practice in Developmental and Functional Anatomy A	1-3			2		
		Practice in Developmental and Functional Anatomy B	1-3			2		
		Practice in Stem Cell Biology A	1-3			2		
ects		Practice in Stem Cell Biology B	1-3			2		
Practice subjects	Common	Practice in Regulation of Gene Expression A	1-3			2	Elective	
Practic		Practice in Regulation of Gene Expression B	1-3			2		
	-	Practice in Molecular Cell Biology A	1-3			2		
		Practice in Molecular Cell Biology B	1-3			2		
		Practice in Molecular Neuroanatomy A	1-3			2		
		Practice in Molecular Neuroanatomy B	1-3			2		
		Practice in Diagnostic Pathology A	1-3			2		
		Practice in Diagnostic Pathology B	1-3			2		

					Credits		
Suk	oject classification	Class title	Grade	Lecture	Exercise	Practice	Note
		Practice in Pathology and Immunology A	1-3			2	
		Practice in Pathology and Immunology B	1-3			2	
		Practice in Molecular Pharmacology A	1-3			2	
		Practice in Molecular Pharmacology B	1-3			2	
		Practice in Occupational Health A	1-3			2	
		Practice in Occupational Health B	1-3			2	
		Practice in Legal Medicine A	1-3			2	
		Practice in Legal Medicine B	1-3			2	
		Practice in Cardiology A	1-3			2	
		Practice in Cardiology B	1-3			2	
		Practice in Respiratory Medicine A	1-3			2	
		Practice in Respiratory Medicine B	1-3			2	
		Practice in Gastroenterology A	1-3			2	
		Practice in Gastroenterology B	1-3			2	
		Practice in Hematology A	1-3			2	
		Practice in Hematology B	1-3			2	
ts		Practice in Endocrinology, Metabolism & Nephrology A	1-3		2	2	
Practice subjects		Practice in Endocrinology, Metabolism & Nephrology B	1-3			2	.
ce s	Common	Practice in Neurology A	1-3			2	Elective
ract		Practice in Neurology B	1-3			2	
Ь		Practice in Pediatrics A	1-3			2	
		Practice in Pediatrics B	1-3			2	
		Practice in Psychiatry A	1-3			2	
		Practice in Psychiatry B	1-3			2	
		Practice in Dermatology A	1-3			2	
		Practice in Dermatology B	1-3			2	
		Practice in Gastrointestinal Surgery, and Breast, Pediatric and General Surgery A	1-3			2	
		Practice in Gastrointestinal Surgery, and Breast, Pediatric and General Surgery B	1-3			2	
		Practice in Cardiovascular Surgery A	1-3			2	
		Practice in Cardiovascular Surgery B	1-3			2	
		Practice in General Thoracic Surgery A	1-3			2	
		Practice in General Thoracic Surgery B	1-3			2	
		Practice in Orthopaedic Surgery A	1-3			2	
		Practice in Orthopaedic Surgery B	1-3			2	
		Practice in Hands-on Educational Program in Neurosurgery A	1-3			2	
		Practice in Hands-on Educational Program in Neurosurgery B	1-3			2	

Practice in Corbinolarymgology-Head and Neck Surgery A 1-3 2 2 2 2 2 2 2 2 2						Credits		
Practice in Orbital Associated Surgery B Practice in Obstetrics and Gynecology A Practice in Obstetrics and Gynecology A Practice in Obstetrics and Gynecology B Practice in Urology A Practice in Urology B Practice in Urology B Practice in Ophthalmology A Practice in Ophthalmology A Practice in Ophthalmology B Practice in Anesthesiology A Practice in Anesthesiology A Practice in Anesthesiology A Practice in Radiology B Practice in Radiology B Practice in Oral and Maxillofacial Surgery A Practice in Oral and Maxillofacial Surgery B Practice in Oral and Maxillofacial Surgery B Practice in Clinical Laboratory Medicine A Practice in Clinical Laboratory Medicine B Practice in Clinical Laboratory Medicine A Practice in Clinical Laboratory Medicine B Practice in Medical Oncology A Practice in Medical Oncology A Practice in Medical Oncology A Practice in Pistate & Reconstructive Surgery B Practice in Plastic & Reconstructive Surgery B Practice in Clinical Cancer Pharmacology A Practice in Clinical Cancer Pharmacology A Practice in Neuropathobilogy A Practice in Neuropathobilogy A Practice in Neuropathobilogy A Practice in Neuropatmacology B Practice in Neuropathoparmacology B Practice in Neuropat	Suk	oject classification	Class title	Grade	Lecture	Exercise	Practice	Note
Practice in Otorhinolaryngology-Head and Neck Surgery B Practice in Obstetrics and Gynecology A 1-3 2				1-3			2	
Practice in Obstetrics and Gynecology B Practice in Urology A Practice in Urology B Practice in Ophthalmology A Practice in Ophthalmology B Practice in Ophthalmology B Practice in Ophthalmology B Practice in Anesthesiology A Practice in Anesthesiology A Practice in Anesthesiology B Practice in Radiology B Practice in Radiology B Practice in Oral and Maxillofacial Surgery A Practice in Oral and Maxillofacial Surgery B Practice in Clinical Laboratory Medicine A Practice in Clinical Laboratory Medicine A Practice in Critical and Intensive Care Medicine A Practice in Critical and Intensive Care Medicine A Practice in Medical Oncology A Practice in Medical Oncology B Practice in Plastic & Reconstructive Surgery A Practice in Plastic & Reconstructive Surgery B Practice in Clinical Cancer Pharmacology A Practice in Clinical Cancer Pharmacology B Practice in Neuropathobilogy A Practice in Neuropathobilogy A Practice in Neuropathobilogy B Practice in Neuropharmacology B			Practice in Otorhinolaryngology-Head	1-3			2	
Practice in Urology A			Practice in Obstetrics and Gynecology A	1-3			2	
Practice in Urology B			Practice in Obstetrics and Gynecology B	1-3			2	
Practice in Ophthalmology A			Practice in Urology A	1-3			2	
Practice in Ophthalmology B			Practice in Urology B	1-3			2	
Practice in Anesthesiology A			Practice in Ophthalmology A	1-3			2	
Practice in Anesthesiology B			Practice in Ophthalmology B	1-3			2	
Practice in Radiology A			Practice in Anesthesiology A	1-3			2	
Practice in Radiology B			Practice in Anesthesiology B	1-3			2	
Practice in Oral and Maxillofacial 1-3 2 2 2 2 2 2 2 2 2			Practice in Radiology A	1-3			2	
Surgery A Practice in Oral and Maxillofacial 1-3 2 2 2 2 2 2 2 2 2			Practice in Radiology B	1-3			2	
Practice in Oral and Maxillofacial 1-3 2 2 2 2 2 2 2 2 2				1-3			2	
Common A Practice in Clinical Laboratory Medicine B Practice in Critical and Intensive Care Medicine A Practice in Critical and Intensive Care Medicine B Practice in Medical Oncology A 1-3 2 Practice in Medical Oncology B 1-3 2 Practice in Primary Care Medicine B Practice in Primary Care Medicine B 1-3 2 Practice in Plastic & Reconstructive 1-3 2 Practice in Plastic & Reconstructive Surgery A Practice in Plastic & Reconstructive 1-3 2 Practice in Clinical Cancer Pharmacology A Practice in Clinical Cancer Pharmacology B 1-3 2 Practice in Neuropathobilogy A 1-3 2 Practice in Neuropathobilogy B 1-3 2 Practice in Neuropharmacology B				1-3			2	
Practice in Critical and Intensive Care Medicine B Practice in Medical Oncology A Practice in Medical Oncology B Practice in Medical Oncology B Practice in Primary Care Medicine A Practice in Primary Care Medicine B Practice in Plastic & Reconstructive Surgery A Practice in Plastic & Reconstructive Surgery B Practice in Clinical Cancer Pharmacology A Practice in Clinical Cancer Pharmacology B Practice in Neuropathobilogy A Practice in Neuropharmacology A Practice in Neuropharmacology B Practice in Neuroscience A 1-3 2 2 2 2 2 3 4 4 5 6 7 7 8 7 8 7 8 8 8 8 8 8 8	jects			1-3			2	
Practice in Critical and Intensive Care Medicine B Practice in Medical Oncology A Practice in Medical Oncology B Practice in Medical Oncology B Practice in Primary Care Medicine A Practice in Primary Care Medicine B Practice in Plastic & Reconstructive Surgery A Practice in Plastic & Reconstructive Surgery B Practice in Clinical Cancer Pharmacology A Practice in Clinical Cancer Pharmacology B Practice in Neuropathobilogy A Practice in Neuropharmacology A Practice in Neuropharmacology B Practice in Neuroscience A 1-3 2 2 2 2 2 3 4 4 5 6 7 7 8 7 8 7 8 8 8 8 8 8 8	qns əc	Common	-	1-3			2	Elective
Medicine B	Practic			1-3			2	
Practice in Medical Oncology B Practice in Primary Care Medicine A Practice in Primary Care Medicine B Practice in Plastic & Reconstructive Surgery A Practice in Plastic & Reconstructive Surgery B Practice in Clinical Cancer Pharmacology A Practice in Clinical Cancer Pharmacology B Practice in Neuropathobilogy A Practice in Neuropathobilogy B Practice in Neuropharmacology A Practice in Neuropharmacology A Practice in Neuropharmacology A Practice in Neuropharmacology B				1-3			2	
Practice in Primary Care Medicine A Practice in Primary Care Medicine B Practice in Plastic & Reconstructive Surgery A Practice in Plastic & Reconstructive Surgery B Practice in Clinical Cancer Pharmacology A Practice in Clinical Cancer Pharmacology B Practice in Neuropathobilogy A Practice in Neuropathobilogy B Practice in Neuropharmacology A Practice in Neuropharmacology A Practice in Neuropharmacology A Practice in Neuropharmacology B			Practice in Medical Oncology A	1-3			2	
Practice in Primary Care Medicine B Practice in Plastic & Reconstructive Surgery A Practice in Plastic & Reconstructive Surgery B Practice in Clinical Cancer Pharmacology A Practice in Clinical Cancer Pharmacology B Practice in Neuropathobilogy A Practice in Neuropathobilogy B Practice in Neuropharmacology A Practice in Neuropharmacology A Practice in Neuropharmacology A Practice in Neuropharmacology A Practice in Neuropharmacology B Practice in Neuroscience A Practice in Neuroscience A			Practice in Medical Oncology B	1-3			2	
Practice in Plastic & Reconstructive Surgery A Practice in Plastic & Reconstructive Surgery B Practice in Clinical Cancer Pharmacology A Practice in Clinical Cancer Pharmacology B Practice in Neuropathobilogy A Practice in Neuropathobilogy B Practice in Neuropathobilogy B Practice in Neuropathobilogy A Practice in Neuropathobilogy B Practice in Neuropathobilogy B Practice in Neuropharmacology A Practice in Neuropharmacology B Practice in Neuroscience A Practice in Neuroscience A Practice in Neuroscience A			Practice in Primary Care Medicine A	1-3			2	
Surgery A Practice in Plastic & Reconstructive Surgery B Practice in Clinical Cancer Pharmacology A Practice in Clinical Cancer Pharmacology B Practice in Neuropathobilogy A Practice in Neuropathobilogy B Practice in Neuropharmacology A Practice in Neuropharmacology A Practice in Neuropharmacology A Practice in Neuropharmacology B			Practice in Primary Care Medicine B	1-3			2	
Surgery B				1-3			2	
Pharmacology A Practice in Clinical Cancer Pharmacology B Practice in Neuropathobilogy A Practice in Neuropathobilogy B Practice in Neuropathobilogy B Practice in Neuropharmacology A Practice in Neuropharmacology B Practice in Neuropharmacology B Practice in Neuropharmacology B Practice in Neuroscience A				1-3			2	
Pharmacology B Practice in Neuropathobilogy A Practice in Neuropathobilogy B Practice in Neuropharmacology A Practice in Neuropharmacology A Practice in Neuropharmacology B Practice in Neuropharmacology B Practice in Neuroscience A				1-3			2	
Practice in Neuropathobilogy B 1-3 2 Practice in Neuropharmacology A 1-3 2 Practice in Neuropharmacology B 1-3 2 Practice in Neuroscience A 1-3 2				1-3			2	
Practice in Neuropharmacology A 1-3 2 Practice in Neuropharmacology B 1-3 2 Practice in Neuroscience A 1-3 2			Practice in Neuropathobilogy A	1-3			2	
Practice in Neuropharmacology B 1-3 2 Practice in Neuroscience A 1-3 2			Practice in Neuropathobilogy B	1-3			2	
Practice in Neuroscience A 1-3 2			Practice in Neuropharmacology A	1-3			2	
			Practice in Neuropharmacology B	1-3			2	
Practice in Neuroscience B 1-3 2			Practice in Neuroscience A	1-3			2	
1 1 1 1 1 1 1 1 1 1			Practice in Neuroscience B	1-3			2	

Appendix 1

					Credits		
Sul	oject classification	Class title	Grade	Lecture	Exercise	Practice	Note
		Practice in Laboratory Animal Science A	1-3			2	
		Practice in Laboratory Animal Science B	1-3			2	
sts		Practice in Epidemiology Research A	1-3			2	
bjec		Practice in Epidemiology Research B	1-3			2	
Practice subjects	Common	Practice in Biocommunication Research A	1-3			2	Elective
Prac		Practice in Biocommunication Research B	1-3			2	
		Practice in Regenerative Medicine Research A	1-3			2	
		Practice in Regenerative Medicine Research B	1-3			2	

NCD Epidemiology Leader's Course List of Classes and Number of Credits

Aroo	Cluster	Subject	Grade		Credits		Elective/Required/
Area	Cluster	Subject G _i		Lecture	Exersice	Practice	semiobligatory subjects
	Public Health	Fundamentals of Public Health	1	2			Commulación
	Public Health	Health Administration and Public Health Law	2	2			Compulsory
		Fundamentals of Epidemiologic Methods	1	2			
	Epidemiology and Medical Statistics	Fundamentals of Clinical Trials	1	2			Compulsory
Core		Fundamentals of Medical Statistics	1	2			
	Advanced Topic of	Epidemiology of NCDs	1	2			Compulsory
	Epidemiology	Social Epidemiology	2	2			Compulsory
	International	Workshop for Discovering Asian Culture and Ethics	1		2		Compulsory
	Communication	Presentation and debates	2		2		Compulsory
ıtal	Clinical Medicine	Clinical medicine of NCDs	1	2			Elective
Supplemental	Medical Innovation	Medical innovation from bench to community	2	2			Elective
ns	Wedicai iiiiovatioii	Industrial Health	1		2		Elective
		Thesis preparation	2			4	Compulsory
		Global Research Training	2			2	
ı	Practicum	Research and Development in the Health Related Industries	2			2	Elective
		Fieldwork at an Asia-Pacific region	3			2	
		Presentaion at academic conferences	3			4	Compulsory

Major Study Themes of Faculty

Department / Centre	Division / Unit	Title	Name	Major Study Themes
				Study on nanomaterials, nanostructures and surfaces
		Professor	MERA Yutaka	2. Development of nano-spectroscopy
				3. Medical application of nanotechnology
				Research for optical properties of nano-,bio-materials
	Division of Physics			2. Research for material science using diffraction, microscopy, and
		Associate	NA DUIGE NUI	spectroscopy
		Professor	NARUSE Nobuyasu	3. Physics research contributing to environmental science,
				agriculture, disaster prevention, and medical science
				4. Research for science education
				Development of medical materials based on supramolecular
				chemistry
Department of	Division of Chemistry	Professor	FURUSHO Yoshio	2. Construction of soft materials utilizing formation of organic salt
Fundamental Biosciences				bridges driven by hydrogen bonding
				3. Design and Synthesis of Functional Polymers
				Molecular basis of immune cell trafficking
		Professor	HIRATA Takako	2. Control of lymphocyte migration to the skin and mucosa
				3. Immune regulation by cytoskeleton-associated proteins
	Division of Biology			Immunometabolism and redox signaling in autoimmunity
	Division of blology	Associate		2. The mechanism of CD8+ regulatory T cell differentiation and
		Associate Professor	SATOOKA Hiroki	the application of CD8+ regulatory T cell for autoimmune disease
		1 10100001		treatment.
				3. Non-lymphoid tissue-specific immune regulation
	Division of Mathematics	Associate Professor	KAWAKITA Motoko	Algebraic curves with many rational points
	5 (5	FIOIESSOI		research on bioethics (clinical ethics, research ethics, public health ethics)
	Division of Philosophy and Ethics	Professor	OKITA Taketoshi	2. research on the concept of care and responsibility
	55 _ 1.1100			3. research on ethical issues related to HIV infection and other infectious diseases
				Spatial cognition and language understanding
D	Division of Psychology	Associate Professor	KOJIMA Takatsugu	2. Affective information processing
Department of Culture and Medicine	1 10100001		3. Non-verbal cognition	
and medicine	Division of English	Professor	KATO Yutaka	International comparative research on bioethics
	Division of English	1 10100001	KATO Tulaka	2. Research on medical and nursing English education
	Division of Cultural			Anthropological studies on ethnic minorities of P.R.China
	Anthropology	Professor	KANESHIGE Tsutomu	2. Anthropological studies on Fengshui
	. 07			Anthropological studies on merit and merit-making
				Analysis of the function of the brain phospholipid to the behavior
				2. Analysis of the pathogenesis of nonalcoholic fatty liver disease related to
		Professor	UDAGAWA Jun	in utero environment
	Division of Anatomy and			3. Study on the relationship between hand structure and grasping
	Cell Biology			function
				Elucidation of the molecular mechanisms underpinning DOHaD
		Special Contract Associate	UCHIMURA Yasuhiro	(developmental origins of health and disease) hypothesis
Department of Anatomy		Professor		2. Elucidation of the function of the genes involved in the onset of
				sarcopenia
				1. Analysis of brain morphogenesis
		Professor	KATSUYAMA Yu	2. Analysis of mechanisms of maintenance and differentiation
	Division of			of the stem cells
	Neuroanatomy			Analysis of model animals of psychiatric diseases.
		Associate		Stem cell aging and tissue homeostasis
		Professor	KANEDA Hayato	2. Search for biomarkers of age-related diseases
				3. Brain morphogenesis
				1. Analysis of the generation, maintenance, and differentiation of
	Division of Integrative	D ,	LUTOSLUSSU	neural stem cells
	Physiology	Professor	HITOSHI Seiji	2. Development of regenerative therapy strategy for the damaged
				central nervous system
Department of Physiology				3. Understanding the pathogenesis of psychiatry diseases
. 37				1. Neural circuit mechanisms underlying motivation, decision-making, and attention
	Division of Systems			2. Computational algorithms of neural activities related to motivation, decision-making
	Physiology	Professor	OGAWA Masaaki	and attention
				3. Translational research that contributes to the understanding, diagnosis, and treatment
				of psychiatric disorders with impaired motivation, decision-making, and/or attention

Department / Centre	Division / Unit	Title	Name	Major Study Themes
				Epigenetic regulation of gene expression and cancer development
		Professor	AGATA Yasutoshi	2. Regulation of gene expression and cancer development by
	Division of Molecular			chromosome dynamics
	Physiological Chemistry			Regeneration of cancer specific T cells from iPS cells Molecular mechanism of antigen receptor gene rearrangement
5 , , , ,		Associate	TERADA Koji	in lymphocytes
Department of Biochemistry and		Professor	12KKB/KKoji	2. Gene-reglation for lymphocyte development
Molecular Biology				Signal transduction reseach and genetic analysis in the field of
		Professor	OGITA Hisakazu	cancer biology and cardiovascular diseases
	Division of Molecular			2. Molecular mechanism of cell adhesion
	Medical Biochemistry	Aggaigta		Signal transduction and cell-cell communication in cancer and
		Associate Professor	SATO Akira	inflammatory diseases.
				2. Adult diseases triggered by aberrant regulation of Wnt signaling.
		Professor	KUSHIMA Ryoji	Gastrointestinal pathology
	Division of Human			Diagnostic pathology Study on the progression potential of non-invasive cancer of
	Pathology	Associate	NAKAYAMA Takahisa	gastrointestinal tract
		Professor	TV/TV/T/TV// Takariisa	2. Research on antitumor therapy based on synthetic lethality
				Development of vaccines and therapeutic agents against influenza
				virus
Department of Pathology		Professor	ITOH Yasushi	2. Research on genetic diseases and aging using a non-human
	Division of Pathogenesis and Disease Regulation			primate model
	and Discuse regulation			3. Analysis of immune responses using cynomolgus macaques
		Associate	ISHIGAKI Hirohito	1. Immunology with using a primate model especially for tumor,
		Professor	1011107 ti ti 1111011110	transplantation, and infectious disease
	Division of Microbiology and Infectious Diseases	Associate	TANBE Yukihiro	1. Physiological function(s) of cancer-related genes.
	and intectious diseases	Professor		2. Search for novel anti-tumor compounds.
				Molecular mechanism and pathophysiological role of ectodomain
		Drofossor	NICHI Eijohiro	shedding 2. Regulatory role of transcriptional coregulator in matcheliam
		Professor		Regulatory role of transcriptional coregulator in metabolism Role of metallopeptidases in cardiovascular disease, cancer and
				inflammatory diseases
Department of Pharmacology	_			Molecular mechanism and pathophysiological roles of heart rate
				control by the multifunctional protease.
		Associate Professor	OLINIO MELTI	2. Usefulness of the novel biomarker for the early detection of ACS
			OHNO Mikiko	3. Regulatory role of protease in megakaryocyte maturation and
				platelet production
				4. Role of metalloprotease in Alzheimer's disease
				Prevention of Work-related Musculoskeletal Disorders
	Division of Occupational	Special	Special	2. Health and Safety of Persons with Disabilities (Prevention of
	and Environmental	Contract Associate	KITAHARA Teruyo	secondary disorders)
	Health	Professor	r	Support for Balancing Treatment and Work Social Barriers and Health of People with Disabilities or Information
				Vulnerable Populations
Department of Social				Amalysis of traffic injuries
Medicine		_ ,		2. Pathophysiological analysis for sudden death cases due to
	5	Professor	HITOSUGI Masahito	thrombosis
	Division of Legal Medicine			3. Preventive medicine for deaths of external causes
		Associate		Forensic Toxicology, clinical toxicology, physiology of abuse drugs
		Associate Professor	NAKAMURA Mami	2. Virtopsy, postmortem computed tomography
				3. Out-of-hospital death by infectious disease including COVID-19
		D/	NIAIZAGANAN	Coronary reconstruction in ischemic heart disease
	B	Professor	NAKAGAWA Yoshihisa	Primary and secondary prevention for atherosclerosis Optimal antithrombotic therapy
	Division of Cardiovascular Medicine			Optimal antitrioribotic therapy I. Elucidation of the pathophysiology of heart failure
	Caralovacoular moulonio	Associate	SAKAI Hiroshi	2. Research on diagnosis and treatment of pulmonary hypertension
		Professor	5. 3. 5. 1 III OOIII	3. Research on diagnosis and treatment of cardiac amyloidosis
				Structure and function relationship of the lung
		Professor	NAKANO Yasutaka	Structure and function relationship of respiratory diseases
				Research on the pathophysiology of severe asthma
Department of Internal	Division of Respiratory	Associate Professor	YAMAGUCHI Masafumi	2. Study on the pathophysiology and treatment of chronic intractable
Medicine	Medicine	5.55501		cough
		Associate		Research on body composition of COPD
		Associate Professor	KINOSE Daisuke	2. Research on lung structure and function in COPD
				3. Research on the gut microflora of COPD
		Associate	INIATOM! Occurs	Pancreatic fibrosis in pancreatic cancer and chronic pancreatitis
	Divinion of	Professor	INATOMI Osamu	New development of endoscopic device in ERCP
	Division of Gastroenterology	_		Mucosal immunity in inflammatory bowel disease
	Gasiroenterology	Associate	l	
		Professor	NISHIDA Atsushi	2. The gut microbiota in inflammatory bowel disease

Department / Centre	Division / Unit	Title	Name	Major Study Themes
				Mechanism of immune response after hematopoietic stem cell
				transplantation
	Division of Hematology	Professor	MURATA Makoto	2. Prognostic factor for hematological diseases
				3. Development of novel cellular therapy
				Pathogenesis of diabetic nephropathy
		Professor	KUME Shinji	2. Pathogenesis of chronic kidney disease
	Division of Diabetology,	1 10103301	TROME Offing	Renal energy metabolism
	Endocrinology and			Nethal energy metabolism Pathogenesis of diabetic kidney disease
	Nephrology	Associate	YAMAHARA Kosuke	
		Professor	TAIVIAHARA NOSUKE	2. Regulatory mechanisms of autophagy in the kidney
				3. Renal energy metabolism
Department of Internal				Molecular targeted therapy for amyotrophic lateral sclerosis
Medicine				2. Cell biological analysis of neurodegenerative diseases
		Professor	URUSHITANI Makoto	3. Noninvasive diagnosis of neurological diseases
				4. Molecular pathology of cerebrovascular diseases
				5. Functional brain image analysis of Nerve rehabilitation
				Engineering the novel molecular therapies with cell and tissue
	Division of Neurology			specific targeting
		Associate	TERASHIMA Tomoya	2. Application to the regenerative therapies with reprograming of bone
		Professor	TERASHINA TOMOYA	marrow-derived cells
				3. Analysis of the relation between bone marrow-derived cells and
				neurological diseases
		Associate	YAMAKAWA Isamu	Electrodiagnosis in clinical neurology
		Professor		2. Neurorehabilitation and Brain functional image
				Molecular genetic analysis of hereditary unconjugated
				hyperbilirubinemia
		Professor	MARUO Yoshihiro	Polymorphism of UDP-glucuronyltransferase and drug metabolism
				3. Genetic analysis of congenital hypothyroidism
		Associate Professor	TAGA Takashi	Clinical study for developing therapeutic approach of pediatric leukemia
Department of Pediatrics	_	1 10163301		Study on diagnosis and treatment of the atypical hemolytic uremic
•		Associate		syndrome
		Professor	SAWAI Toshihiro	Elucidation of the disease mechanism of C3 glomerulopathy
				Research on factors involved in complement dysregulation
				Research of factors involved in complement dysregulation Genetic back ground of prolonged hyperbilirubinemia in preterm
		Associate	YANAGI Takahide	infants
		Professor	I ANAGI TAKAHIDE	
		<u> </u>		Genetic back ground of bilirubin encephalopathy in preterm infants Figlery and pathonhysiology of achizophropic
		Professor	OZEKI Yuji	Etiology and pathophysiology of schizophrenia Gardiana advarsa affect by results transical.
				Cardiovascular adverse effect by psychotropics
		Special		1. Clinical research on sleep disorders
Department of Psychiatry	_	Contract	KADOTANI Hiroshi	2. Epidemiological research on sleep and mental health
, -,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Professor		Development and evaluation of wearable devices to analyze sleep
		Associate		Etiology and pathophysiology of schizophrenia.
		Professor	FUJII Kumiko	2. Mental illness with involuntary movemen.
		12.20001		3. Clinical studies of pregnant women with mental illness
				Analysis of regulatory B cells on autoimmune diseases
		Professor	FUJIMOTO Noriki	2. Investigation for the treatment of cutaneous mailgnant tumors
				3. Gene editing for treatment of epidermolysis bullosa
				T-cell Mediated Autoimmune Pathomechanism in Alopecia Areata and Psoriasis
Department of		Associate	ARAKAWA Akiko	2. Effect of T-cell receptor-Antigen interaction on T-cell differentiation
Dermatology	_	Professor		T-cell Mediated Tumor Immunity in Melanoma and Angiosarcoma
				Research for diagnosis and treatment of allergic skin diseases
		A = = - : :		Research for detecting the genomes of pathogens in infectious skin
		Associate Professor	TAKAHASHI Toshifumi	
		1 10169901		diseases
				3. Research for the pathogenesis and treatment of genetic skin diseases

Department / Centre	Division / Unit	Title	Name	Major Study Themes
		Professor	TANI Masaji	Clinical study for the prevention of post operative complications in pancreatectomy Development of immunotherapies for gastrointestinal diseases Study of the pancreatic function Evaluation of mechanisms for the metastasis
	Division of Gastrointestinal Surgery,	Associate		5. Study of the intervention for surgical skill 6. Interaction between cancer cells and fibroblasts 1. Study for Cancer fibrosis.
	and Breast, Pediatric, and General Surgery	Professor	MIYAKE Tohru	Study for Cancer metastasis. Study for peri operatire management in Colorectal Surgery.
		Associate Professor	ISHIKAWA Hajime	Research on improving the safety of hepatectomy Analysis of physiological response to cancer immunotherapy
		Associate Professor	KAIDA Sachiko	 Study on nutritional status after gastric cancer surgery Research on the usefulness and safety of robot-assisted gastrectomy Research on automatic recognition of the stomach and surrounding blood vesselsusing artificial intelligence (AI)
Department of Surgery		Professor	SUZUKI Tomoaki	 Long term outcome of total arterial off-pump CABG The outcome of total arch replacement under mild hypothermia Technical aspect or long-term durability of mitral valve repair Type A aortic surgery: optimal procedure or long-term remodeling
		Associate Professor	HANAOKA Jun	1. Minimally invasive surgery with VATS for chest diseases 2. A study of the operation method for lung cancer 3. da Vinch® robotic surgery in general thoracic surgery 4. A study of the identification technique of the interlobar/intersegmental plane
	Division of Cardiovascular Surgery and Thoracic Surgery			Evaluation of pulmonary function before and after lay resection using dynamic X-ray apparatus Uniportal video-assisted thoracoscopic surgery for non-small cell lung cancer
		Associate Professor	OSHIO Yasuhiko	 Surgical navigation system for non-small cell lung cancer 8K endoscopic system for thoracic surgery New method to detect and repair intraoperative pulmonary air leakage Antitumor immune response and tumor microenvironment
		Associate Professor	TAKASHIMA Noriyuki	1. Study of long-term outcome of thoracic aortic aneurysm 2. Surgical examination and long-term prognosis study for acute aortic dissection 3. Examination of arterial wall extensibility and clinical application 4. Study of surgical procedure and long-term outcome of aortic stenosis
		Professor	IMAI Shinji	1. Improvement of clinical output in arthroscopic shoulder surgery 2. Improvement of clinical output in shoulder arthroplasty 3. Regenerative medicine for injures of articular cartilage and spinal cord
		Associate Professor	MORI Kanji	 Research for the ossification of the spinal ligaments Research for the diagnosis and treatment for the disease with spine and spinal cord Research for bone matabolism
Department of Orthopaedic Surgery	_	Associate Professor	YAYAMA Takafumi	Research for ossification process in patients with ossification of spiual ligament Pathological analysis for hypertrophy of ligament tissue
		Special Contract Associate Professor	KUMAGAI Kosuke	1. Development of joint degenerative disease diagnostic method and suppressive therapy by comprehensive analysis of cell membrane ion channels. 2. A comparative study of drug use during the acquisition of low disease activity in rheumatoid arthritis patients. 3. Correlation between TKA postoperative satisfaction and patient-based outcome in RA patients.
Department of		Professor	YOSHIDA Kazumichi	Molecular pathophysiology and non-invasive diagnostic imaging of atherosclerosis Molecular pathophysiology and non-invasive diagnostic imaging of cerebral aneurysm Development of a novel surgical treatment for cerebrovascular diseases Epidemiology of cerebrovascular disease
Neurosurgery		Associate Professor	FUKAMI Tadateru	Research for the multidisciplinary treatment for glioma Research for the safety and the risk of awake surgery Research for the therapeutic indications about neuroendoscopic surgery
		Associate Professor	NITTA Naoki	Pathophysiology and treatment of mesial temporal lobe epilepsy Analysis of neurophysiological examination Pathophysiology and treatment of brain tumors

Department / Centre	Division / Unit	Title	Name	Major Study Themes
		Associate Professor	OWAKI Shigehiro	Diagnosis and treatment of voice disorder Diagnosis and treatment of headandneck cancer
Department of Otorhinolaryngology-Head and Neck Surgery		Associate Professor	KOHZAKI Hideaki	The mechanism and control of epithelial-derived airway allergic diseases The pathophysiological analysis of eosinophilic chronic rhinosinusitis The pathophysiological analysis of Japanese cedar pollen rhinitis
		Associate Professor	TOJIMA Ichiro	Study of eosinophilic inflammation in upper airway The pathophysiological research in allergic rhinitis Mucus production and its regulation in airway epithelium
	Female Pelvic Surgery	Professor	MURAKAMI Takashi	Minimally invasive gynecologic surgery (hysteroscopic, laparoscopic, and robotic surgery) Endometriosis and adenomyosis
	and Reproductive Medicine	Associate Professor	AMANO Tsukuru	Reproductive endocrinology and infertility Robotic-Assisted Surgery for Gynecological Tumors Elucidation of resistance to treatment of gynecological tumors using organoids Mechanism of carcinogenesis of endometriosis
Department of Obstetrics and Gynecology		Associate Professor	TSUJI Syunichiro	1. Elucidation of pathophysiology and development of treatment and prevention methods for cesarean scar syndrome 2. Elucidation of the pathogenesis and development of treatments for perinatal brain disorders 3. Diagnosis and treatment of cesarean scar syndrome 4. The role of resident microglia to neonatal hypoxic ischemic
		Associate Professor	TAKAHASHI Akimasa	Study on the association between ovarian cancer stem cells and resistance to treatment Investigation of minimally invasive surgery for gynaecological surgery Microimmune environment analysis of gynaecological cancers
		Professor	KAGEYAMA Susumu	Clinical research in robotic and laparoscopic surgery Development of new anti-cancer drugs for urologic malignancy Proteomics research in urologic oncology
	y —	Associate Professor	JOHNIN Kazuyoshi	Surgery in pediatric urology (Reseach for plastic and laparoscopic surgery) Reserch for voiding dysfunction in children Application of MRI imaging in pediatric urology
Department of Urology		Associate Professor	YOSHIDA Tetsuya	 Clinical research in urological robotic surgery Clinical research of nephron-sparing surgery for renal tumors Study of systemic therapy for advanced renal cancer
		Associate Professor	YAMANAKA Kazuaki	 Complement control in kidney transplant rejection Control of donor-specific antibodies in kidney transplantation Analysis of factors associated with renal fibrosis in chronic antibody-mediated rejection after kidney transplantation.
Department of		Associate Professor	SAWADA Osamu	Pharmacokinetics of intravitreal agents Treatment for diabetic macular edema
Ophthalmology		Associate Professor	OBATA Shumpei	 Treatment Prediction Model for Retinopathy of Prematurity Using Artificial Intelligence Pathophysiology of Retinopathy of Prematurity Pharmacokinetics of intravitreal agents in macaque monkeys
		Professor	KITAGAWA Hirotoshi	Multimodal in vivo monitoring of ischemia reperfusion injury Cardioprotection by anesthetic agents and opioids
Department of Anesthesiology		Associate Professor	KOJIMA Akiko	 Elucidation of molecular basis for the mechanisms underlying cardioprotective effect of anesthetics, focused on Ca2+ transport proteins. Investigation of modulatory effects of anesthetics on cardiac pacemaker function. Electrophysiological and molecular biological analyses for the interaction between anesthetics and ion channels. Investigation of modulatory effects of anesthetics on ionic mechanisms involved in arrhythmogenesis.
		Associate Professor	IWASHITA Narihito	1. Elucidating the brain mechanisms of pain using functional brain imaging 2. Multidisciplinary treatment for chronic pain 3. Development of minimally invasive treatment using pulse radiofrequency method
		Associate Professor	NAKANISHI Miho	1.Elucidation of the intracerebral mechanism of chronic pain using brain MRI for small animals (basic research) 2.Elucidation of the analgesic mechanism of Japanese herbal medicine (basic research) 3.Pathological evaluation and treatment effects of multidisciplinary treatment, drug therapy, in chronic pain patients (Clinical research) 4. Optimal conditions and long-term prognosis of peripheral nerve block using pulsed radiofrequency (Clinical research)

Department / Centre	Division / Unit	Title	Name	(As of July 2024 Major Study Themes
Department / Centre	אוטו / חווצוטון	ritie	INAME	Major Study Themes Study for pathophysiology of central nerves system disease and
				functional imaging using MRI and CT.
		Professor WATANABE Yoshiyuki 2. Artificial intelligence for medical imaging. 3. Human fluid flow imaging using MRI. 1. Difference in tracheal diameter changes during deep breathing in a supine position between restrictive ventilator impairment patients, obstructive ventilator impairment patients and normal respiratory function patients using dynamic chest radiography 2. Difference in the pixel value change of lung field during deep breathing between restrictive ventilator impairment patients, obstructive ventilator impairment patients and normal pulmonary function patients using dynamic chest radiography 3. The effect of botulinum toxin A injection into the perirenal arterial space to treat hypertension 1. Clinical research on radiation therapy for localized prostate cancer 2. A retrospective study of the safety and efficacy of multi-targeted stereotactic radiation for metastatic brain tumors 1. Research on improving the image quality of ultra-high-resolution CT of the lungs using artificial intelligence	WATANABE Yoshiyuki	
			Associate Professor SONODA Akinaga Sonoda Ak	Difference in tracheal diameter changes during deep breathing in a
				supine position between restrictive ventilator impairment patients,
			SONODA Akinaga	
		F 10165501		
Department of Radiology	_			3. The effect of botulinum toxin A injection into the perirenal arterial
				space to treat hypertension
		Associate		l · · · · · · · · · · · · · · · · · · ·
			KONO Naoaki	
				Efforts to improve the accuracy of diagnostic imaging in the
		Associate	KITAHADA Hitochi	musculoskeletal radiology
		Professor	KITAHARA HILOSHI	3. Efforts to improve the accuracy of diagnostic imaging in the
				pediatric radiology
				, , , , , , , , , , , , , , , , , , ,
		Professor	TAKAOKA Kazuki	
				3. The occlusal rehabilitation using jaw reconstruction and dental implants
				1. Oral Cancer
			Oral Cancer Jaw Defomities and Cleft Palate Anti-resorptive Agents-related Osteonecrosis of technology.	2. Jaw Defomities and Cleft Palate
Department of Oral and		Associate		3. Anti-resorptive Agents-related Osteonecrosis of the Jaw
Maxillofacial Surgery	_	Professor		
			I KUSHINI INA Shinya	development of new tissue regeneration and repair materials
		Associate Professor		2. Comprehensive analysis of oral flora
		Professor		3. Elucidation of the relationship between maxillofacial morphology and
				sleep apnea syndrome and various diseases
		Associate Professor	CHANO Tokuhiro	
Department of Clinical	_			
Laboratory Medicine				biomarkers
				4. Drug development from targeting RAB39A
Diagnostic Dathology	_	Associate	MODITANI Suzuko	1. Diagnostic pathology
Diagnostic Pathology		Professor	MORITAINI SUZUKO	2. Pathology of the breast and gynecological organs
		Professor	SHIOMI Naoto	Study on multimodal treatment of severe head injury
				2. Clinical research on brain death and resuscitation
Department of Critical and Intensive Care Medicine Department of Medical Oncology (Cancer Center)				
	_			
		Associate	TSUJITA Yasuyuki	Study of septic organ dysfunction
		Professor		Epidemiological study of cardiovascular shock
		Associate	FUJINO Kazunori	
		Professor	T CONVO RAZATION	
				proteomics analysis.
				Development of molecular targted drugs (small compounds, antibody,
				nucleic acid medicine)
		Professor	DAIGO Vataro	Development and translational research of cancer vaccine and
		1 10103301	Driigo Talaiu	immunomodulator drugs
			SONODA Akinaga 2. Difference in the pixel value change of lung field during deep breathing between restrictive ventilator impairment patients, obstructive ventilator impairment patients and formst patientary, obstructive ventilator impairment patients and normst patientary function patients using dynamic chest radiography 3. The officed obsorbination box A impection into the perior and arterial space to troat hypotension 1. Clinical research on radiotion therapy for localized prostate cancer 2. A retrospective study of the safety and efficacy of multi-targeted sterestactic radiation for metastatic brain tumors KITAHARA Hilderin 3. Respective to the sacruacy of diagnostic imaging in the mechanism of the image value place of the production of the image value place of the patients of the patients of the image value place of the patients of the patient	
	_			
(Cancer Center)				ı anu men transialıonal research towards personalized medicine
(Cancer Center)				i ·
(Cancer Center)				6. Activity of supporting research by establishing biobanking and using biospecimen
(Cancer Center)				Activity of supporting research by establishing biobanking and using biospecimen Analysis of mechanisms and development of treatment for metastasis
(Cancer Center)		Associate	AHIDATA	Activity of supporting research by establishing biobanking and using biospecimen Analysis of mechanisms and development of treatment for metastasis after surgery for gastrointestinal cancer
(Cancer Center)		Associate Professor	MURATA Satoshi	Activity of supporting research by establishing biobanking and using biospecimen Analysis of mechanisms and development of treatment for metastasis after surgery for gastrointestinal cancer Control over the perioperative tumor microenvironment in
(Cancer Center)			MURATA Satoshi	Activity of supporting research by establishing biobanking and using biospecimen Analysis of mechanisms and development of treatment for metastasis after surgery for gastrointestinal cancer Control over the perioperative tumor microenvironment in gastrointestinal cancers

Department / Centre	Division / Unit	Title	Name	Major Study Themes
				Medical diagnosis Avoiding diagnostic errors
		Professor		Rural medicine Clinical electrolyte acid-base abnormalities electrolyte; acid-base
		1 10103301	30GIWOTO TOSTIIIO	abnormalities
				Development of continuing professional development using ICT
		Associate		Pathophysiology and therapy of chronic heart failure
		Professor	OHNISHI Masato	2. Diagnosis and therapy of hypertension in primary care
				Simulation-based instruction in healthcare professionals Percutaneous endoscopic gastrostomy and management of that
Department of				patient.
Comprehensive Internal Medicine	_	Associate Professor	ITOH Akihiko	2. Indication and complications of enteral nutrition.
				3. Nutritional support team management and multi-occupation
				collaboration. 1. Development of effective regional cooperation for medical care of the
		Associate		diabetic patients
		Professor	MAENO Yasuhiro	Development of effective educational techniques for the diabetic or
				pre-diabetic people
		Associate		Research for the efficacy of regional cooperation in respiratory
		Professor	WADA Hiroshi	medicine examination.
				Clinical examination of obstructive pulmonary disease. Multimodality therapy for colorectal cancer
		Dest	NACIZATA C	Development of the resin of the surgical instrument
		Professor MEKATA Eiji 3. Anticancer drug sensitivity test		
				4. Oncology (disease state, therapy and community cooperation)
		Associate	VAMA CLICHI Taurrashi	Research on efficacy and safety of bariatric and metabolic surgery
Department of Comprehensive Surgery	_	Professor		Research on upper gastrointestinal surgery Research on efficacy and safety of treatment of peptic ulcer
				Study of gastrointestinal surgical stress
		Associate Professor	AKABORI Hiroya	Development of microwave surgical device
		1 10103301		3. Clinical study of the operation method for pancreas
		Associate	KITAMURA Naomi	Development of new endotoxin measurement method.
		Professor		
		Special		
		Contract Professor	ofessor KITAMURA Naomi 2. Postoperative analgesic effect for laparoscopic cholecystectomy. 1. Evaluation of percutaneous osteotomy for callus distraction 2. Research of monitoring for tissue transfer 3. Research of survival rate and number of vascular anastomosis for digital replantation	_
Department of Plastic and	_			digital replantation
Reconstructive Surgery		Associate Professor		Establishment of a novel scaffold which leads to the regeneration of
	1		OKANO Junko	heterogenous tissues in deep wounds 2. Development of bacteriophage therapy for multi-antibiotic-resistant
				bacteria
				Development of minimally invasive treatment for gastrointestinal
	_		KIMURA Hidenori	tumors
Endoscopy		Associate Professor		2. Research on observation methods to improve the detection rate of
		Professor		gastrointestinal tumors 3. Pathophysiological analysis in the development of gastrointestinal
				tumors focusing on the gut microbiota
Blood Purification	_	Associate		1. Blood purification
		Professor	TO WO TO WAR MAGAINI	2. Mechanism of development of diabetic nephropathy
Blood Transfusion and Cell Therapy Center	_	Associate Professor	MINAMIGUCHI Hitoshi	Phenotypic analysis of hematopoietic stem cell Phenotypic analysis of leukemic stem cell
				Prienotypic analysis of leukernic stem cell I.Perioperative nutritional support for esophageal cancer surgery
Clinical Nutrition	_	Associate	TAKEBAYASHI Katsushi	The mechanism leading to postoperative recurrence of gastric and
Cililical Nutrition		Professor		esophageal cancer
				Multidisciplinary treatment strategy for esophageal cancer
Medical Informatics and Biomedical Engineering	_	Associate	SUGIMOTO Yoshihisa	Medical electronics Medical information system
		Professor		Biomedical engineering for cardiology
				Research on lipid transporters and lipid metabolism
Department of		Professor	Í	2. Development of methods for measuring lipids
Pharmacotherapeutics (Pharmacy)	_	Λ		Study of personalized medicine Research on lipid transporters
		Associate Professor	IKEDA Yoshito	2.Research on metal transporters
				Study of surgical stress
Medical Safety Section		Professor	SHIMIZU Tomoharu	2. Development of new endotoxin measurement method
	_			3. Studies of treatment for colorectal cancer and inflammatory bowel
-				diseases 1. In-hospital emergency system
		Associate Professor	MANDAI Ryoichi	In-hospital emergency system
				A study of bone and soft tissue tumors
Rehabilitation Section	_	Associate Professor	KODAMA Narihito	Microsurgical approach for orthopedics and reconstructive surgery
		riolessor		3. A study of the idiopathic interosseous nerve palsy

Department / Centre	Division / Unit	Title	Name	Major Study Themes
				Healthcare management
		Professor	KASAMA Shu	2. Medical sociology
				3. Pathophysiology using nuclear cardiology
Center for Clinical				1. A Recognition Investigation about Living Donor Transplantation:
Research and Advanced Medicine	_			Analysis of the free description answer of the citizen by the Internet survey
Widdioirio		Associate Professor	KURATA Mayumi	2. Construction of the study entry applicant support system which
		Professor		utilized the Internet
				3. Critical Review of Priority Relative-Offers in Revision of Organ
				Transplant Law
		Drofossor	KANA CAKI Taku	1. Hip and knee arthroplasty
Clinical Education Center	_	Professor	KAWASAKI Taku	Epidemillogy of rheuamatoid arthritis Locomotive rehabilitation
for Physicians				
		Associate Professor	YAMAHARA Mako	Podocyte injury in diabetic kidney disease Mechanism of progression of chronic kidney disease
		1 10100001		Study of the pathogenesis involved in neurodegenerative disorders
				and dementia
				2. Therapeutics development for neurodegenerative disorders and
		Professor	ISHIGAKI Shinsuke	
	Translational Research			dementia by antisense modulation 3. Development for novel biomarkers for neurodegenerative disorders
	Unit - Department of			and dementia by behavioral test batteries and imaging analysis
Molecular Neuroscience Research Center	Diagnostics and			Elucidation of Alzheimer's disease pathology for discovering novel
	Therapeutics for Brain Diseases			therapeutic targets.
	Diseases	A '- (-		Development of diagnostic biomarkers for dementia at very early
		Associate Professor	YANAGISAWA Daijiro	stage.
				3. Research on the pathology, diagnosis, and disease-modifying
				therapy of neurodegenerative diseases.
				The research about primate ES/iPS cells
				2. The research about the development of method to create genetically
				modified monkeys and its application to human disease modeling
		Professor	EMA Masatsugu	The research about primate early embryonic and placental
				development
				4. Molecular mechanism about angiogenesis
Research Center for				Therapeutic research of anti-ER stress drugs identified by a novel
Animal Life Science	_			luminous probe.
				2. Analysis of cellular pathology of sporadic amyotrophic lateral
		Associate		sclerosis focusing on translation products whose mRNAs are
		Professor	MORIMURA Toshifumi	recognized by TDP-43.
				3. Early diagnosis and therapeutic research of Alzheimer's disease by
				using transgenic cynomolgus monkeys bearing amyloid-beta
				precursor protein with disease associated mutations.
	Pioneering Research Division	Special Contract Associate Professor	HASHIMOTO Shoko	Elucidation of pathological mechanism of Alzheimer's disease
				using mouse models
				2. Analysis of the effect of oxidative stress on brain homeostasis
ļ		Special Contract Professor	WAN ZURINAH WAN NGAH	Research theme includes mechanisms in ageing and
	International Joint Research Division			neurodegenerative diseases such as Alzheimer's Disease and
				modulation by antioxidants such as palm oil vitamin E tocotrienol.
				2. Modulation of the gut microbiome and metabolome and correlation
				with cognitive function by tocotrienol in an APP/PS1 AD mouse
Medical Innovation				model.
Research Center				3. Tocotrienol isomers effects on differentiated APP Swedish/PS1
				transfected SH-SY5Y cells
				4. Systems integration of the transcriptome, proteome and metabolome
				of the hippocampus of AD APP/PS1 mice treated with tocotrienol
				(Collaboration with UKM)
		Special	YAMADA Atsushi	1. Bending mechanisms for medical devices
	Advanced Medical Research and Development Division	Contract		2. Flexible medical devices
		Associate Professor		3. Flexible robot mechanisms
				4. Image guided surgeries
				Elucidating the mechanism of the activation of hepatic stellate cells
Central Research Laboratory		Λ - ' '		in liver fibrosis.
	_	Associate Professor		2. Interaction of peritoneal macrophages and mesothelial cells covering
Laboratory				the internal organs in the peritoneal cavity.
				3. Role of macrophages in pancreatic cancer.
		,		Research on the pathogenesis of chronic obstructive pulmonary
11 10 4		١ , .		, ,
Health Administration Center	-	Associate Professor	OGAWA Emiko	disease (COPD)

	T	I	I	(As of July 2024
Department / Centre	Division / Unit	Title	Name	Major Study Themes
				Development of new strategy of catheter ablation for refractory arrhythmias.
				2. Studies on the mechanism of electrical defibrillation and the
		Professor		development of new defibrillator.
lafa was ation. To also a la sur	_			3. Application of human iPS cell-derived cardiomyocytes to the studies
Information Technology and Management Center				on cardiovascular diseases.
3				4. Studies on cardiovascular diseases by in silico, artificial intelligence,
				and biomedical engineering.
		Associate		1. studies on star formation process
		Associate Professor	MOTOYAMA Kazutaka	2. studies on evolution of interstellar medium
				3. high performance computing
		Professor	ITO Toshiyuki	1. Medical education
				Gastric and esophageal carcinogenesis using various animal models
Education Center for	_			2. Analyses of extra-esophageal symptoms of GERD using reflux animal
Medicine and Nursing		Professor		models
				3. Influence of bile acids on carcinogenesis and cancer progression
				4. Morphology of cancer cells using a novel 3D cell culture system
		Professor	1	Epidemiologic research of cardiovascular diseases
	Division of Preventive Medicine			2. Preventive medicine of cardiovascular diseases
				3. Nutritional epidemiology
		Associate Professor	KADOTA Aya	Epidemiology of Diabetes mellitus and NCDs
NCD Epidemiology				2. Epidemiology of Cardiovascular disease and subclinical
Research Center				atherosclerosis
				3. MWAS on Dementia
	Division of Medical Statistics	Associate Professor		Statistical methods for epidemiologic researches
				2. Statistical methods for health services research
				3. Epidemiologic research of physical activity and aging
	_	Associate Professor		Fibrinolysis factors (uPA etc.) and adhesion factors (CD44 variant
Community Healthcare Education and Research Center				etc.) related to the breast cancer invasion and the metastasis.
				2. MRI mapping for the intraductal area of breast cancer
				3. Tumor infiltrating cells around of the breast cancer, related to the
				trastuzumab after neoadjuvant chemotherapy
		Special Contract Associate Professor	HAYAKAWA Koichi	Research for regulatory mechanism of smooth muscle contraction.
Research Administration	Research Strategy Promotion Office			2. Drug discovery research for GPCR.
Office				3. Research for intellectual property management in university.

検定料振込用紙等

- ※1 下切り取り以下の用紙により、令和6年10月11日(金)から 11月1日(金)の期間に振り込んでください。
 - 2 右の台紙に「振込金受領証明書」を貼り付けたものを関係書類と 共に送付してください。

振込金受領証明書 (大学提出用)

金 額

C

¥30.000-

受取人

滋賀医科大学

(フリガナ) 志願者氏名

取扱銀行収納印



Д	振込金(兼手数料)受領書
	(本人保存)

依頼日	年 月 日				
金額	¥30,000-				
	滋 賀 銀 行・瀬田駅前支店				
上 先 方→ 銀 行	関西みらい銀行・草津南支店				
	三菱UFJ銀行・草 津 支 店				
受取人	滋賀医科大学				
志願者氏名(フリガナ)					
	N/ # 74 77				
消費税込					
上記の金額正に受取りました。 取扱銀行収納印					

銀行

支店

印 紙

検定料納付確認書

この枠内に振り込み後の「振込金受領証明書」を貼り付けてください。

手数料ご依頼人負担 振込依頼書 電信扱 科目 (取扱店保存) ¹0 右 依頼日 日 | 振 込 指 定 消費税込 電信扱 印言 手 数 料 預金種目 座 番 号 方 滋 賀 銀 行・瀬田駅前支店 普通 0146970 ¥30,000-金 額 関西みらい銀行・ 草津南 支店 普通 0514443 当手 枚 普通 三菱UFJ銀行·草 津 支 店 1102147 他手 > h * (h \$ * (h *) 受取人 大 学 医 志願者氏名(フリガナ):もれのないよう打電してください。 合 計 い選 依 氏 名(漢字) 取扱銀行収納印 住 所 〒

◎取扱銀行へのお願い

В

- ①太線内を必ず打電してください。
- ②金額の訂正はできません。
- ③収納印は1・2・3にもれなく正確に押印し、A・C票は必ず依頼人にお返しください。
- ④滋賀銀行以外の銀行・信用金庫から振り込まれる場合は手数料が必要です。
- ⑤本振込依頼書は、令和6年11月2日以降は取り扱わないでください。



Contact for Admission Selection, etc.

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