Admission in Autumn (October) 2026

Graduate School of Medicine
SUMS-UKM International Joint Ph.D. Program in Ageing Science
(Doctoral Program)

Student Application Guideline

National University Corporation

Shiga University of Medical Science

Table of Contents

Admission Policies, etc.

The Admission Policies

We welcome individuals who meet the criteria described below.

1. Those who have a desire to serve society by contributing to the advancement and development of medicine and medical care through scientific inquiry in the field of ageing science.
2. Those who have a sense of the dignity of life and respect for diversity.
3. Those who have an international perspective and a desire to play an active role in Asia, including Japan and Malaysia.
4. Those who have a desire to be an international leader in overcoming the problems of ageing.

The Curriculum Policies

1. Acquire the necessary expertise and research skills as a medical researcher.
2. Plan and conduct research independently while acquiring the necessary knowledge and awareness of medical ethics, bioethics, and research ethics.
3. Study the history and culture of Asian countries and ethnic groups different from their own to cultivate an attitude of understanding and acceptance of diversity and learn the methods of international collaborative research.
4. Study the current situation of ageing issues in Asia and publish the results of the research on ageing science in international academic journals.

The Diploma Policies

Based on the image of “an international leader who possesses the specialized knowledge and research skills necessary to become a researcher in the field of aging science, as well as a firm sense of ethics,” the following abilities are required for completion of the program.

1. Have the necessary expertise and research skills as a medical researcher.
2. Be able to conduct research independently with sufficient knowledge and awareness of medical ethics, bioethics, and research ethics.
3. Have the adaptability to accept different cultures and the practical skills to conduct international collaborative research.
4. Be able to independently promote research on ageing science and disseminate research results worldwide.

Admission Policies, etc.

Admission Quota

Course	Enrollment Quota	Admission Quota
SUMS-UKM International Joint Ph.D. Program in Ageing Science	2	1 (For SUMS enrollment)

(Note) For adult admission students, we may provide education through appropriate means, including conducting classes or research guidance in the evening or other defined hours and periods as described in the “Special Exception of Education Method” according to Article 14 of Graduate Schools Establishment Standards.

Admission Period

October 2026

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 September 2026.
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 September 2026.
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 September 2026.
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 September 30, 2026.

(Notes) 1. Adult admission students must meet one of the above criteria, have work at the point of application, and obtain approval from their supervisor for enrollment.

2. If you apply, following any of the above criteria 5-8, please refer to "Screening of Eligibility for Application" on page 9.

Application Procedure

1. Period of Application

Thursday, May 28 to Wednesday, June 3, 2026

(as indicated by the postmark on the envelope)

2. Address to Submit Application Documents and Inquiry

Admissions Office, Student Affairs Division

Shiga University of Medical Science

Seta Tsukinowa-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 Documents	Notes
1	Application for Admission *	Form Ⅰ
2	Curriculum Vitae *	Form Ⅱ
3	Statement of purpose *	Form Ⅲ
4	Future research theme and research plan	About 700-800 words on an A4-size sheet
5	Academic Transcript (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 also submit an academic transcript prepared and sealed by the President (Dean) of the graduate school attended.
6	Certificate of Graduation or Certificate of Expected Graduation (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 submit only a certificate of completion (or a certificate of expected completion) prepared by the President of the graduate school attended.
7	Payment verification form *	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 Wednesday, May 13 and Wednesday, June 3, 2026, at a bank, **attach the "Certificate of Payment" with stamp of receipt in its designated spot.**
8	Examination Admission Card/ Photo Card *	Attach your ID photo (upper front body, no hats, taken within the past three months, 4 cm high × 3 cm wide) on the designated column.
9	Envelope for sending an Examination Admission Card	**On the front of a "Nagagata No. 3" size envelope (120 × 235 mm), write your address and attach postage stamps equivalent to 410 yen.**
10	Address Card *	Fill in the address where you would like to receive a letter of acceptance.
11	Letter of Permission for Examination	Submit only if you are currently enrolled in another graduate school (unless expected to graduate by September 2026) or work in a government, medical institution, company, etc. (It is not required if you currently attend our university.) (Refer to the example forms on the website.)
12	Certificate of English Proficiency	Following test scores or equivalent taken within the past two years of the date of application. ・IELTS: Band 6.5 or higher ・MUET: Band 4.5 or higher ・TOEFL iBT: 79 or higher ・Pearson Test of English: 63 or higher ・Cambridge English Qualifications and Test: 176 or higher ・The EIKEN Test in Practical English Proficiency：Pre-1 or higher

(Notes) 1. Applicants should download Forms Ⅰ-Ⅲ from the following webpage.
https://www.shiga-med.ac.jp/admission/graduate/requirements

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 by "registered express mail."

(2) Submit at School
Bring application documents to "2. Address to Submit Application Documents and Inquiry" on page 3. 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 15-19) 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, June 22. If you do not receive it by Wednesday, June 24, promptly contact "2. Address to Submit Application Documents and Inquiry" listed on page 3.

(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 3 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 3 by Wednesday, June 24, 2026.

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

Admission Policies, etc.

Selection Method, etc.

1. Selection Method

Entrance examination will be conducted by the first and second selection as follows.
Working applicants are not specially selected separately from other applicants. The same selection process will be used for adult admission.

The first selection

Written examination, interview, and application documents will be evaluated, using the entrance examination prepared for the admission 2026 Autumn (October) for the Advanced Medical Science Course, Graduate School of Medicine, Shiga University of Medical Science.

The second selection

Applicants who have passed the first selection will undergo a comprehensive evaluation of their academic level, aptitude, English proficiency, etc. This assessment, which is based on the results of the first examination and conducted in accordance with the Admission Policies, will also include an interview.

2. Examination schedule

	Date	Hours	Course name, examination type and point allocation	
The first selection	Thursday, July 2nd	10:00 - 11:30	English competence exam	120 points
		12:30 - 13:30	-Written exam on general medicine and life science	120 points
		14:00 -	Interview (individually)	*1
The second selection	Tuesday, July 14 *2	Separately specified *2	Interview (individually)	100 points*3

*1. In the interviews of the first selection, a scale is used to assess the qualities and aptitude to become a medical researcher, and the results are taken into account in the overall evaluation.

*2. The date and time of the second selection will be notified to successful applicants of the first of selection by mail at a later date.

*3. In the interviews of the second selection, an interview will be conducted in English to evaluate the applicant's qualifications and aptitude to become a researcher who can deal with medical problems associated with the aging of the population.

(Note) 1. Only graphite pencils (including mechanical pencils), Pencil cap, pencil sharpeners (not electronic), Plastic erasers, glasses, watches (time 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 who qualify under the eligibility criteria 6 will take an essay exam instead of the exam on General medicine and life science.
5. Applicants who passed the first selection but did not pass the second selection may enroll in the Advanced Medical Science Course, Graduate School of Medicine, Shiga University of Medical Science.

3. Location

Shiga University of Medical Science (Please refer to the "Campus Map" on page 11.)
Details will be sent together with the Examination Admission Card.

Result Announcement

The first selection: 10:00 am, Thursday, July 9, 2026 (as scheduled)

The second selection: From the end of July to the beginning of August in 2026

Successful applicants' numbers will be announced on our website (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

- **By postal mail**
  Due by 5:00 pm, Friday, September 18, 2026
  If you send documents via postal mail, please call the phone number given in item 2 below no later than 5:00 pm, Wednesday, September 16 , 2026.

- **At school**
  From 9:00 am to 5:00 pm on Thursday, September 17, 2026
  If you are unable to prepare the documents by the specified date above, please call the following phone number and complete the necessary procedure between 9:00 a.m. and 5:00 p.m. on Friday, September 18, 2026.

2. Place of registration (postal address) and contact

Student Affairs Division, Admissions Office
Shiga University of Medical Science
Seta Tsukinowa-cho, Otsu City, Shiga 520-2192, Japan
Tel: +81-77-548-2071 (direct)

3. Payment
   (1) Entrance fee: 282,000 yen
   (2) Tuition fee: 267,900 yen (for the fall semester)
      ① The second selection successful applicants will be notified of information regarding tuition fees, including the amounts and payment details.
      ② The tuition fee for the fall semester must be paid using the payment slip provided by SUMS before the end of November, 2026.
      ③ 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) An Examination Admission Card will be necessary for the registration, so please be careful not to lose it.
   (2) If you do not complete the registration by the above date, it will be considered as a withdrawal of enrollment.

Admission Policies, etc.

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 (Please download the designated form from the website. https://www.shiga-med.ac.jp/admission/graduate/requirements)
   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.)
   ⑥ Curriculum (copy) and syllabus (copy) of the school currently attended
   ⑦ Letter of recommendation (Prepared by the supervisor of a research/medical institution, etc.)

2. Period of Application
   Wednesday, April 22 to Friday, May 8, 2026 (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 **"Application for SUMS-UKM International Joint Ph.D. Program in Ageing Science"** in red ink on the front of the envelope. If you submit them at school, please bring it to the Admissions Office, Student Affairs Division between 9:00 am and 5:00 pm.

4. Eligibility Screening
   Eligibility screening is conducted based on documents submitted. 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 **Friday, May 22, 2026**.
   If you are eligible, please follow the application procedure stated in this guideline (refer to page 3.)

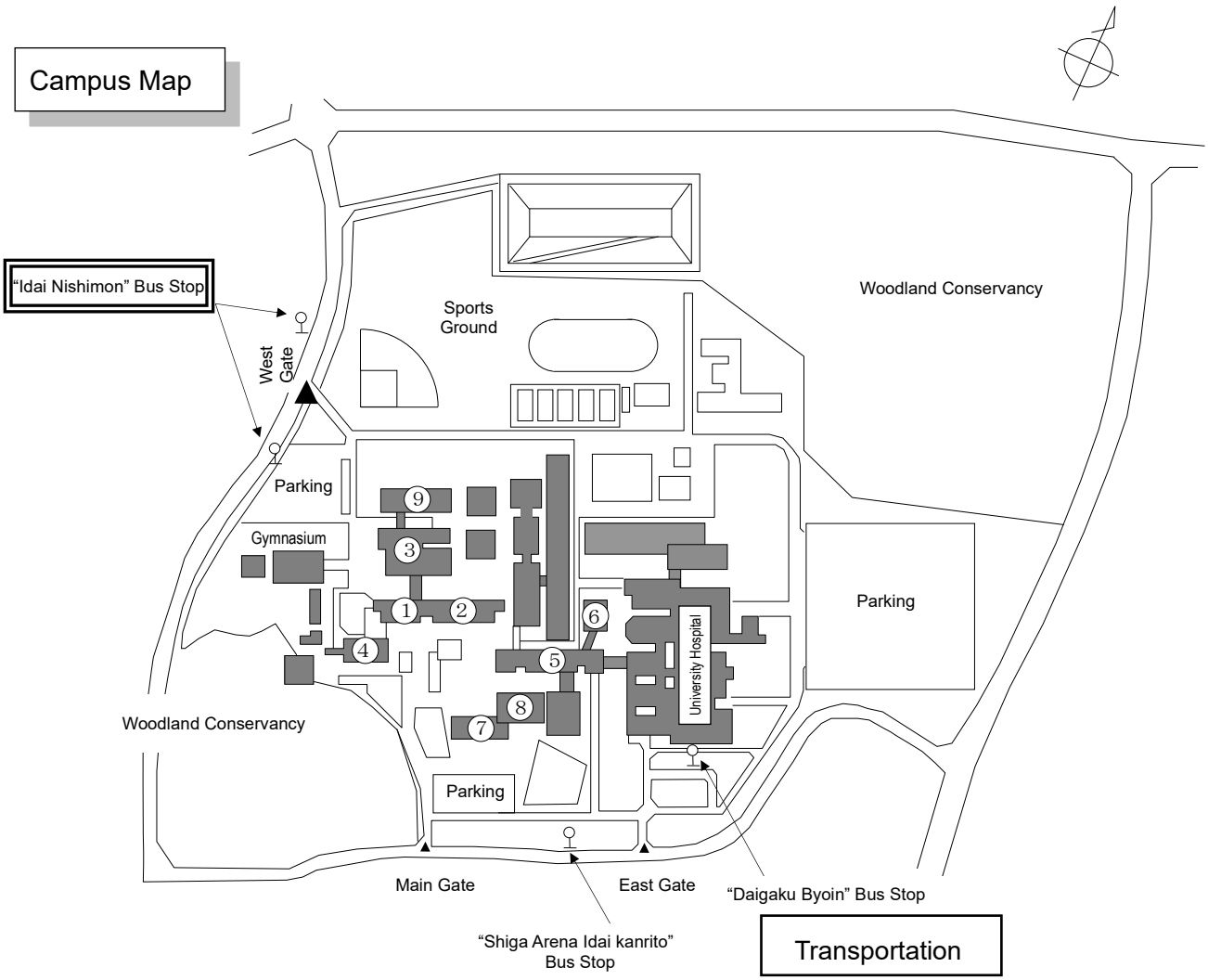
Please note that documents submitted for the Screening of Eligibility can be used for the subsequent application procedure, so there is no need to submit them in duplicate.

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.

Campus Map



(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

Transportation

Take a route bus heading for "Shiga Idai" in front of Seta Station of JR Tokaido Honsen (Biwako Line) and get off at "Idai Nishimon" (takes about 15 min)

Overview of
SUMS-UKM International Joint Ph.D. Program in Ageing Science
Graduate School of Medicine

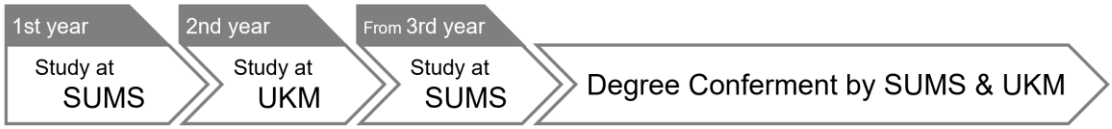
Purpose

In this program, we aim to develop researchers who can address medical problems associated with ageing, upholding the theme of training "international leaders who possess the necessary expertise and research skills as researchers in medical science focusing on ageing science, as well as a firm sense of research ethics."

Structure

"SUMS-UKM International Joint Ph.D. Program in Ageing Science" by Shiga University of Medical Science (SUMS) and Universiti Kebangsaan Malaysia (UKM) is an advanced collaboration that built on the academic exchange agreement established in 2011, focusing on issues related to aging, which are challenges for both countries. This program offers education that systematically covers specialized knowledge and research techniques from the basics to the cutting edge, including medicine, life sciences, and research ethics. It aims to cultivate human resources who can perform as international leaders in aging science, at the two universities jointly confer a PhD degree through the joint degree program. The language used for student guidance, lectures, and student presentations in this program is primarily English.

▼ If you complete the enrollment procedure at SUMS, here is an image of the study and graduation process.



List of Classes and Number of Credits

Refer to Appendix 1.

Major Study Themes of Faculty

Refer to Appendix 2.

Study Guide

In the first and second years, students are required to earn 20 credits from the compulsory "Core Subjects" and 3 credits from the elective subjects. In the third and fourth years, they must complete 7 credits from the electives of "Advanced Ageing Research Subjects," for a total of 30 credits.

Grant of Academic Degree

1. A degree of "Doctor of Philosophy in Medical Science" will be granted.
2. The requirements for completing this program are as follows.
   i. Have been enrolled in this program for 4 years or more (however, if a student has been enrolled for 3 years or more and has achieved outstanding research results while meeting the specified requirements, the degree may be awarded even if the enrollment period is less than 4 years.)

ii. Earn at least 30 credits (See "Study Guide")

iii. Pass the Qualifying Examination (QE) in the second year.

iv. Authored 2 research or review papers that have been published or accepted in journals listed in Journal Citation Report (JCR) or Web of Science (WOS), subject to any further conditions or requirements established by SUMS and UKM. However, one of the research papers shall be published or accepted in journals listed in JCR and has an IF 1.0 higher. In the case of you graduate in 3 years, refer to (vi).

v. Present research findings at least once at a conference.

vi. When you graduate in 3 years, you must submit the authored 2 research or review papers that have been published or accepted in journals listed in JCR or WOS, subject to any further conditions or requirements established by SUMS and UKM. However, one or two of the research papers must be published or accepted in journals listed in JCR and have an IF 6.0 higher cumulatively.

Appendix 1

List of Classes and Number of Credits

Subject classification	Subject	Grade	Semester	Credits			Compulsory/ Elective
				Lect.	Ex.	Prac.	
Core Subjects	Basic Science Fundametals & Multidisciplinary Seminars	1-2	year-around	3			Compulsory
	Research Methodology	1-2	year-around	4			Compulsory
	Bioethics and Medical Ethics	1-2	year-around	1			Compulsory
	Japanese Language and Culture	1-2	year-around		3		Elective
	Bahasa Melayu for International Communication	1-2	year-around		3		Elective
	Ageing Science Research in Japan	1-2	year-around			6	Compulsory
	Ageing Science Research in Malaysia	1-2	year-around			6	Compulsory
Advanced Ageing Research Subjects	Pathophysiology of Ageing and Social Medicine	3-4	year-around			7	Elective
	Ageing Neuroscience	3-4	year-around			7	Elective
	Ageing and Cancer	3-4	year-around			7	Elective
	Ageing and Non-Communicable Diseases	3-4	year-around			7	Elective

Credits required for completion

Subject classification	Credits			Note
	Compulsory	Semi-Compulsory	Elective	
Core Subjects	20	—	3	In the first and second years, students are required to complete 20 credits from the compulsory subjects and 3 credits from the elective subjects. In the third and fourth years, students must take 7 credits from the electives of "Advanced Ageing Research Subjects," for a total of 30 credits.
Advanced Ageing Research Subjects	—	—	7	
Total	20	0	10	

Study Themes of Faculty Members

(As of Mar 2026)

Department	Title	Name/Study Themes
Division of Physics, Department of Fundamental Biosciences		
	Associate Professor	**NARUSE Nobuyasu** 1. Research for optical properties of nano-,bio-materials 2. Research for material science using diffraction, microscopy, and spectroscopy 3. Physics research contributing to environmental science, agriculture, disaster prevention, and medical science 4. Research for science education
Division of Chemistry, Department of Fundamental Biosciences		
	Professor	**FURUSHO Yoshio** 1. Development of medical materials based on supramolecular chemistry 2. Construction of soft materials utilizing formation of organic salt bridges driven by hydrogen bonding 3. Design and Synthesis of Functional Polymers
	Associate Professor	**MORI Yasuyuki** 1. Development of polymeric materials with biocompatibility 2. Development of functional adhesives 3. Synthesis of functional polymers using carbon dioxide
Division of Biology, Department of Fundamental Biosciences		
	Associate Professor	**SATOOKA Hiroki** 1. Immunometabolism and redox signaling in autoimmunity 2. The mechanism of CD8+ regulatory T cell differentiation and the application of CD8+ regulatory T cell for autoimmune disease 3. Non-lymphoid tissue-specific immune regulation
Division of Mathematics, Department of Fundamental Biosciences		
	Associate Professor	**KAWAKITA Motoko** 1. Algebraic curves with many rational points
Division of Philosophy and Ethics, Department of Culture and Medicine		
	Professor	**OKITA Taketoshi** 1. research on bioethics (clinical ethics, research ethics, public health ethics) 2. research on the concept of care and responsibility 3. research on ethical issues related to HIV infection and other infectious diseases
Division of Psychology, Department of Culture and Medicine		
	Associate Professor	**KOJIMA Takatsugu** 1. Spatial cognition and language understanding 2. Affective information processing 3. Non-verbal cognition
Division of English, Department of Culture and Medicine		
	Professor	**KATO Yutaka** 1. International comparative research on bioethics 2. Research on medical and nursing English education
Division of Anatomy and Cell Biology, Department of Anatomy		
	Professor	**UDAGAWA Jun** 1. Analysis of the function of the brain phospholipid to the behavior 2. Analysis of the pathogenesis of nonalcoholic fatty liver disease related to in utero environment 3. Study on the relationship between hand structure and grasping function
Division of Neuroanatomy, Department of Anatomy		
	Professor	**KATSUYAMA Yu** 1. Analysis of brain morphogenesis 2. Analysis of mechanisms of maintenance and differentiation of the stem cells 3. Analysis of model animals of psychiatric diseases.
	Associate Professor	**KANEDA Hayato** 1. Stem cell aging and tissue homeostasis 2. Search for biomarkers of age-related diseases 3. Brain morphogenesis
Division of Systems Physiology, Department of Physiology		
	Professor	**OGAWA Masaaki** 1. Neural circuit mechanisms underlying motivation, decision-making, and attention 2. Computational algorithms of neural activities related to motivation, decision-making and attention 3. Translational research that contributes to the understanding, diagnosis, and treatment of psychiatric disorders with impaired
Division of Molecular Physiological Chemistry, Department of Biochemistry and Molecular Biology		
	Professor	**AGATA Yasutoshi** 1. Epigenetic regulation of gene expression and cancer development 2. Regulation of gene expression and cancer development by chromosome dynamics 3. Regeneration of cancer specific T cells from iPS cells
	Associate Professor	**ITO Koyu** 1.Establishment of cancer-specific T cell therapy 2.Analysis of the function of lymph node stromal cells in cancer progression 3.Control of immune cell function via cell adhesion molecules

Department	Title	Name/Study Themes
Division of Molecular Medical Biochemistry, Department of Biochemistry and Molecular Biology		
	Professor	**OGITA Hisakazu** 1. Signal transduction reseach and genetic analysis in the field of cancer biology and cardiovascular diseases 2. Molecular mechanism of cell adhesion
	Associate Professor	**SATO Akira** 1. Signal transduction and cell-cell communication in cancer and inflammatory diseases 2. Adult diseases triggered by aberrant regulation of Wnt signaling
Division of Human Pathology, Department of Pathology		
	Professor	**—**
	Associate Professor	**NAKAYAMA Takahisa** 1. Study on the progression potential of non-invasive cancer of gastrointestinal tract 2. Research on antitumor therapy based on synthetic lethality
Division of Pathogenesis and Disease Regulation, Department of Pathology		
	Professor	**ITOH Yasushi** 1. Development of vaccines and therapeutic agents against influenza virus 2. Research on genetic diseases and aging using a non-human primate model 3. Analysis of immune responses using cynomolgus macaques
	Associate Professor	**ISHIGAKI Hirohito** 1. Immunology with using a primate model especially for tumor, transplantation, and infectious disease
Division of Microbiology and Infectious Diseases, Department of Pathology		
	Associate Professor	**TAMBE Yukihiro** 1. Physiological function(s) of cancer-related genes. 2. Search for novel anti-tumor compounds.
Department of Pharmacology		
	Associate Professor	**OHNO Mikiko** 1. Molecular mechanism and pathophysiological roles of heart rate control by the multifunctional protease 2. Usefulness of the novel biomarker for the early detection of ACS 3. Regulatory role of protease in megakaryocyte maturation and platelet production 4. Role of metalloprotease in Alzheimer's disease
Division of Occupational and Environmental Health, Department of Social Medicine		
	Special Contract Associate Professor	**KITAHARA Teruyo** 1. Prevention of Work-related Musculoskeletal Disorders 2. Health and Safety of Persons with Disabilities (Prevention of secondary disorders) 3. Support for Balancing Treatment and Work 4. Social Barriers and Health of People with Disabilities or Information Vulnerable Populations
Division of Legal Medicine, Department of Social Medicine		
	Professor	**HITOSUGI Masahito** 1. Amalysis of traffic injuries 2. Pathophysiological analysis for sudden death cases due to thrombosis 3. Preventive medicine for deaths of external causes
	Associate Professor	**NAKAMURA Mami** 1. Forensic Toxicology, clinical toxicology, physiology of abuse drugs 2. Virtopsy, postmortem computed tomography 3. Out-of-hospital death by infectious disease including COVID-19
Department of Respiratory Medicine		
	Associate Professor	**YAMAGUCHI Masafumi** 1. Research on the pathophysiology of severe asthma 2. Study on the pathophysiology and treatment of chronic intractable cough
Department of Gastroenterology		
	Professor	**IWASHITA Takuji** 1.Endoscopic management of pancreatobiliary diseases 2.Chemotherapy for pancreatobiliary malignancy 3.Nutritional management during chemotherapy for pancreatobiliary malignancy
Department of Hematology		
	Professor	**MURATA Makoto** 1. Mechanism of immune response after hematopoietic stem cell transplantation 2. Prognostic factor for hematological diseases 3. Development of novel cellular therapy
Department of Diabetology, Endocrinology and Nephrology		
	Professor	**KUME Shinji** 1. Pathogenesis of diabetic nephropathy 2. Pathogenesis of chronic kidney disease 3. Renal energy metabolism
Department of Neurology		
	Professor	**URUSHITANI Makoto** 1. Molecular targeted therapy for amyotrophic lateral sclerosis 2. Cell biological analysis of neurodegenerative diseases 3. Noninvasive diagnosis of neurological diseases 4. Molecular pathology of cerebrovascular diseases 5. Functional brain image analysis of Nerve rehabilitation

Department	Title	Name/Study Themes
Department of Pediatrics		
	Professor	**MARUO Yoshihiro** 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism
	Associate Professor	**YANAGI Takahide** 1. Genetic back ground of prolonged hyperbilirubinemia in preterm infants 2. Genetic back ground of bilirubin encephalopathy in preterm infants
Department of Psychiatry		
	Professor	**OZEKI Yuji** 1. Etiology and pathophysiology of schizophrenia 2. Cardiovascular adverse effect by psychotropics
	Associate Professor	**FUJII Kumiko** 1. Etiology and pathophysiology of schizophrenia. 2. Mental illness with involuntary movemen. 3. Clinical studies of pregnant women with mental illness
Department of Dermatology		
	Professor	**FUJIMOTO Noriki** 1. Analysis of regulatory B cells on autoimmune diseases 2. Investigation for the treatment of cutaneous mailgnant tumors 3. Gene editing for treatment of epidermolysis bullosa
Department of Cardiovascular Surgery		
	Professor	**SUZUKI Tomoaki** 1. Long term outcome of total arterial off-pump CABG 2. The outcome of total arch replacement under mild hypothermia 3. Technical aspect or long-term durability of mitral valve repair 4. Type A aortic surgery: optimal procedure or long-term remodeling
Department of Thoracic Surgery		
	Professor	**SHOJI Fumihiro** 1.Clinical research on minimally invasive surgery for pulmonary malignancies 2.Research on mechanisms of immune microenvironment regulation in lung cancer focusing on human microbiota 3.Immuno-nutritional intervention study in lung cancer patients
Department of Orthopedic Surgery		
	Associate Professor	**YAYAMA Takafumi** 1. Research for ossification process in patients with ossification of spiual ligament 2. Pathological analysis for hypertrophy of ligament tissue
Department of Neurosurgery		
	Professor	**YOSHIDA Kazumichi** 1. Molecular pathophysiology and non-invasive diagnostic imaging of atherosclerosis 2. Molecular pathophysiology and non-invasive diagnostic imaging of cerebral aneurysm 3. Development of a novel surgical treatment for cerebrovascular diseases 4. Epidemiology of cerebrovascular disease
	Associate Professor	**FUKAMI Tadateru** 1. Research for the multidisciplinary treatment for glioma 2. Research for the safety and the risk of awake surgery 3. Research for the therapeutic indications about neuroendoscopic surgery
Department of Otorhinolaryngology-Head and Neck Surgery		
	Professor	**TAKENAKA Yukinori** 1.Prognostic and predictive factors for immune checkpoint inhibitor therapy in patients with head and neck cancer 2.Clinical characteristics of squamous cell carcinoma variant in the head and neck 3.Optimization of chemoradiation therapy for head and neck squamous cell carcinoma
	Associate Professor	**OWAKI Shigehiro** 1. Diagnosis and treatment of voice disorder 2. Diagnosis and treatment of headandneck cancer
Maternal and Fetal Medicine, Department of Obstetrics and Gynecology		
	Professor	**TSUJI Shunichiro** 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 encephalopathy
Department of Urology		
	Professor	**KAGEYAMA Susumu** 1. Clinical research in robotic and laparoscopic surgery 2. Development of new anti-cancer drugs for urologic malignancy 3. Proteomics research in urologic oncology
Department of Ophthalmology		
	Professor	**SAWADA Osamu** 1. Pharmacokinetics of intravitreal agents 2. Treatment for diabetic macular edema
Department of Anesthesiology		
	Professor	**KITAGAWA Hirotoshi** 1. Multimodal in vivo monitoring of ischemia reperfusion injury 2. Cardioprotection by anesthetic agents and opioids

Department	Title	Name/Study Themes
Department of Radiology		
	Professor	**WATANABE Yoshiyuki** 1. Study for pathophysiology of central nerves system disease and functional imaging using MRI and CT 2. Artificial intelligence for medical imaging. 3. Human fluid flow imaging using MRI.
	Associate Professor	**SONODA Akinaga** 1. Difference in tracheal diameter changes during deep breathing in a supine position between restrictive ventilator impairment 2. Difference in the pixel value change of lung field during deep breathing between restrictive ventilator impairment patients, 3. The effect of botulinum toxin A injection into the perirenal arterial space to treat hypertension
Department of Oral and Maxillofacial Surgery		
	Professor	**TAKAOKA Kazuki** 1. Effect of senescence-associated secretory phenotype（SASP）on bone microenvironment 2. Animal models of medication-related osteonecrosis of the jaw 3. The occlusal rehabilitation using jaw reconstruction and dental implants
Diagnostic Pathology		
	Associate Professor	**MORITANI Suzuko** 1. Diagnostic pathology 2. Pathology of the breast and gynecological organs
Department of Critical and Intensive Care Medicine		
	Professor	**SHIOMI Naoto** 1. Study on multimodal treatment of severe head injury 2. Clinical research on brain death and resuscitation 3. Construction of pre-hospital emergency medical care system 4. End of life care in the Emergency medical field
	Associate Professor	**TSUJITA Yasuyuki** 1. Study of cardiac dysfunction and arrhythmia under excessive stress 2. Study of septic organ dysfunction 3. Epidemiological study of cardiovascular shock
Department of Medical Oncology		
	Professor	**DAIGO Yataro** 1. Isolation and functional analysis of cancer-related genes 2. Elucidation of molecular pathology of cancer by genomics and proteomics analysis 3. Development of molecular targted drugs (small compounds, antibody, nucleic acid medicine) 4. Development of cancer peptide vaccines and immune-regulating drugs and their translational research 5. Development of cancer biomarkers and diagnostic systems based on molecular pathology and their translational research towards 6. Activity of supporting research by establishing biobanking and using biospecimen
Department of Pharmacotherapeutics		
	Professor	**MORITA Shin-ya** 1. Research on lipid transporters and lipid metabolism 2. Development of methods for measuring lipids 3. Study of personalized medicine
	Associate Professor	**IKEDA Yoshito** 1. Research on lipid transporters 2.Research on metal transporters
Medical Safety Section		
	Professor	**SHIMIZU Tomoharu** 1. Study of surgical stress 2. Development of new endotoxin measurement method 3. Studies of treatment for colorectal cancer and inflammatory bowel diseases
Center for Clinical Research and Advanced Medicine		
	Professor	**KASAMA Shu** 1. Healthcare management 2. Medical sociology 3. Pathophysiology using nuclear cardiology
Clinical Education Center for Physicians		
	Professor	**KAWASAKI Taku** 1. Hip and knee arthroplasty 2. Epidemillogy of rheuamatoid arthritis 3. Locomotive rehabilitation
Translational Research Unit, Molecular Neuroscience Research Center		
	Professor	**ISHIGAKI Shinsuke** 1. Study of the pathogenesis involved in neurodegenerative disorders and dementia 2. Therapeutics development for neurodegenerative disorders and dementia by antisense modulation 3. Development for novel biomarkers for neurodegenerative disorders
	Associate Professor	**—**

Department	Title	Name/Study Themes
Research Center for Animal Life Science		
	Professor	**EMA Masatsugu** 1. 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 3. The research about primate early embryonic and placental development 4. Molecular mechanism about angiogenesis
	Associate Professor	**MORIMURA Toshifumi** 1. Therapeutic research of anti-ER stress drugs identified by a novel luminous probe 2. Analysis of cellular pathology of sporadic amyotrophic lateral sclerosis focusing on translation products whose mRNAs are 3. Early diagnosis and therapeutic research of Alzheimer's disease by using transgenic cynomolgus monkeys bearing amyloid-beta
	Special Contract Associate Professor	**TSUKIYAMA Tomoyuki** 1. Establishment of high-quality primate ES / iPS cells 2. Establishment of next-generation gene editing technology platform in primates
Pioneering Research Division, Medical Innovation Research Center		
	Special Contract Associate Professor	**HASHIMOTO Shoko** 1. Elucidation of pathological mechanism of Alzheimer's disease using mouse models 2. Analysis of the effect of oxidative stress on brain homeostasis
Advanced Medical Research and Development Division, Medical Innovation Research Center		
	Special Contract Associate Professor	**YAMADA Atsushi** 1. Bending mechanisms for medical devices 2. Flexible medical devices 3. Flexible robot mechanisms 4. Image guided surgeries
Central Research Laboratory		
	Associate Professor	**ASAHINA Kinji** 1. Elucidating the mechanism of the activation of hepatic stellate cells in liver fibrosis 2. Interaction of peritoneal macrophages and mesothelial cells covering the internal organs in the peritoneal cavity 3. Role of macrophages in pancreatic cancer
Health Administration Center		
	Associate Professor	**OGAWA Emiko** 1. Research on the pathogenesis of chronic obstructive pulmonary disease (COPD) 2. Clinical research using COPD cohort data
Information Technology and Management Center		
	Professor	**ASHIHARA Takashi** 1. Development of new strategy of catheter ablation for refractory arrhythmias 2. Studies on the mechanism of electrical defibrillation and the development of new defibrillator 3. Application of human iPS cell-derived cardiomyocytes to the studies on cardiovascular diseases 4. Studies on cardiovascular diseases by in silico, artificial intelligence, and biomedical engineering
	Associate Professor	**MOTOYAMA Kazutaka** 1. studies on star formation process 2. studies on evolution of interstellar medium 3. high performance computing
Education Center for Medicine and Nursing		
	Professor	**ITOH Toshiyuki** 1. Medical education
	Professor	**MUKAISHO Kenichi** 1. Gastric and esophageal carcinogenesis using various animal models 2. Influence of bile acids on carcinogenesis and cancer progression 3. Morphology of cancer cells using a novel 3D cell culture system
Division of Preventive Medicine, NCD Epidemiology Research Center		
	Associate Professor	**KADOTA Aya** 1. Epidemiology of Diabetes mellitus and NCDs 2. Epidemiology of Cardiovascular disease and subclinical atherosclerosis 3. MWAS on Dementia
Division of Medical Statistics, NCD Epidemiology Research Center		
	Associate Professor	**HARADA Akiko** 1. Statistical methods for epidemiologic researches 2. Statistical methods for health services research 3. Epidemiologic research of physical activity and aging
IR Office		
	Associate Professor	**SAWAI Toshihiro** 1. Study on diagnosis and treatment of the atypical hemolytic uremic syndrome 2. Elucidation of the disease mechanism of C3 glomerulopathy 3. Research on factors involved in complement dysregulation
Research Strategy Promotion Office, Research Administration Office		
	Special Contract Associate Professor	**HAYAKAWA Koichi** 1. Research for regulatory mechanism of smooth muscle contraction. 2. Drug discovery research for GPCR. 3. Research for intellectual property management in university

Contact for Admission Selection, etc.

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