¡ Admission Policy

The Graduate School of Biomedical and Health Sciences seeks the following students with necessary basic academic ability, based on its diploma policy and curriculum policy:

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< Program of Medicinal Sciences >

Based on its diploma policy and curriculum policy, the Program of Medicinal Sciences seeks the following students:

1 Those who are willing to acquire abilities to lead medicinal sciences research

2 Those who are willing to acquire abilities to take leadership in promoting education / research on drug discovery / life science in Japan

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3 Those who are willing to play an active part internationally on new drug development

In order to admit such individuals, the program selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using interviews, academic tests, and external examinations.

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< Program of Biomedical Science >

Based on its diploma policy and curriculum policy, the Program of Biomedical Science seeks the following students:

1 Those who are willing to acquire broad knowledge in life and medical sciences, medicine, and dentistry

2 Those who are willing to be engaged in basic/applied researches in life and medical sciences, medicine, and dentistry

3 Those who are willing to promote basic medicine and dentistry research at educational and research institutions

4 Those who are willing to be engaged in research/development or medical operations in companies engaged in biotechnology, medical services and other medical businesses

5 Those who are willing to be engaged in medical operations as a highly research-oriented medical professional in a medical institution

In order to admit such individuals, the program selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using interviews, academic tests, and external examinations.

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3 etc.) will be used for the purposes of selecting students, notifying, and processing their admission.

3 hips, tuition waiver, etc.), as well as investigation or study (such as investigation or analysis for potential improvements in admission examinations and application trend). Private information will not be used for other purposes or provided to people other than relevant staff of our school.

Graduate School of Biomedical and Health Sciences, Hiroshima University, is accepting Doctoral Course-seeking applicants (Division of Integrated Health Sciences) for October 2024 enrollment in the following programs.

2024 10

1 Admission Selection and Number of Students

Admission Selection	Programs	Number of Students
Special Selection for International Students (Internet Interview)	Program of Health Sciences	Several
	Program of Medicinal Sciences	Several
	Program of Biomedical Science	Several

Applicants must consult with a prospective academic supervisor before application.

If you apply without the informal consent of your academic advisor, you are not eligible to take the examination.

2 Eligibility for Application

(1) Those who are non-Japanese citizens residing outside of Japan

(2) s determined in Article 5-2, Rules for Degrees [Ordinance of the Ministry of Education No. 9 in 1953] based on the provision in Paragraph 1 of Article 104 of the Law. The same applies below.)
(104 1 (28 9) 5 2
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(3)

(4) ourse of education provided by a school of that foreign country in Japan

(5) onal institution in Japan that is deemed to have courses offered by an overseas graduate school according to the educational system of that country, and that has also been designated by the Minister of Education, Culture, Sports, Science and Technology (he ? 7

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(9) Those who are recognized by the Graduate School as having academic ability equivalent or superior to those who have graduated from a university, and who have reached 24 years of age(such recognition is done on a case-by-case basis and is based on the qualifications of each applicants)

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(10) Those who are expected to obtain one of the qualifications described above by September 30, 2024.

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3 Preliminary Evaluation for Application Eligibility

Applications will be evaluated for their eligibility in advance, so please submit all required documents by post to the address shown on page 9 (See Address for Application and Inquiries . It must arrive at the Student Support Office **between Monday, April 8, 2024 and Friday, April 26, 2024 by 3:00 PM.**

Then, applicants will be able to apply after receiving an evaluation result.

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In case of applying for the same course in two years after passing the preliminary examination, the applicants shall be permitted to apply for the admission without retaking the preliminary examination.

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(1) Documents required for submission

Applicants can download and use the prescribed form on the Hiroshima University website (https://www.hiroshima-u.ac.jp/bhs).
If, due to name change, etc., your current name is different from the name shown on the document you are providing, attach a copy of an official document issued by a public institution, such as a copy of your family register.

https://www.hiroshima-u.ac.jp/bhs

	Documents	Contents
	Application Form for the Preliminary Evaluation of the Entrance Examination	Please (o)33(u)336<38A2eW99.22 39 reW* nBT/F4 9 Tf1 0 0 1 176.78 329.33 Tm

		毕业证书 证书 (历证书查询 http://www.chsi.com.cn/xlcx/bgys.jsp) ( ) Web 20 (历证书电 备) (线验证报)

*1: Please enter your name as shown in your passport.

*2: If you submit more than two certificate, write the numbers corresponding to that indicated on Summary of Past Research and Clinical Activities etc. at the left top.

(4) Procedure of Online Application

The Online Application Page is only accessible via the Entrance Examination Information Web Site of Hiroshima University.

Hiroshima University - Online Application Home
https://www.webshutsugan.com/hiroshima-u-en/portal/top/
https://www.hiroshima-u.ac.jp/en/nyugaku

https://www.webshutsugan.com/hiroshima-u/portal/top/
https://www.hiroshima-u.ac.jp/nyushi

(5) Application documents

Applicants must submit all the documents listed below within the above stated Application Period.

If the name on the submitted documents is different from the name on the passport due to a change of family name, etc., please attach a copy of the document showing the change.

	Documents	Contents
(A)	Statement of motivation for application	About 1,200 words in English: Please fill in the prescribed form(Access the Hiroshima University Graduate School of Biomedical and Health Sciences website and download the form.) 1,200
(B)	3 ?	Three sheets of A4 paper, typed horizontally using a word processor or computer. Figures and tables may be included. A 4 3 5,000 Margins should be no less than 3 cm on the top, 2.5 cm on the bottom, and 2 cm on the both sides. 3 2.5 2 It should start with a title, applicant s name, and academic supervisor s name.
(C)	The government-sponsored international students only Documents certifying an English language test score	Certificate of the recent score of TOEFL®TEST, TOEIC or other equivalent test TOEFL®TEST TOEIC
(D)	The privately financed international students only Documents certifying an English language test score	Be sure to submit an original transcript of the External English language examinations that meets a 3 he CEFR Comparison Table The English Language Proficiency Tests designated by the Graduate School of Biomedical and Health Science . **If you are unable to submit this document, you will not be eligible to take the examination.**

The CEFR Comparison Table

Type / Level	Cambridge English	EIKEN test	GTEC CBT Type Only CBT	IELTS TM Academic Module	TEAP 4skills	TEAP CBT 4skills	TOEFL iBT®	TOEIC® Listening & Reading Test and TOEIC® Speaking & Writing Tests Note3
C2	200-230			8.5-9.0				

Note1) Please contact us for any inquiries.

Note2) Any transcript from online exams at home is unacceptable.

Note3) For TOEIC®, both L&R and S&W certificates are required. Please add up S&W score multiplied by 2.5 to L&R score.
TOEIC® L&R S&W S&W L&R

The English Language Proficiency Tests designated by the Graduate School of Biomedical and Health Science

Division	Program		
Doctoral Course（3 years） Division of Integrated Health Sciences	Program of Health Sciences（the fields of health sciences）	400 over	400 over
	Program of Health Sciences（the fields of oral health sciences）	400 over	400 over
	Program of Medicinal Sciences	500 over	500 over
	Program of Biomedical Science	400 over	400 over

Note1) Please contact us for any inquiries.

Note2) Any transcript from online exams at home is unacceptable.

(6) Others

The certificates to be submitted must be the originals or certified photocopies. Uncertified copies will not be recognized as official certificates. However, e-mail submissions are accepted as long as the documents are later replaced by official certificates.

Any forgery or falsification of the documents and/or academic fraud will result in cancellation of acceptance even after passing the entrance examination or being accepted for admission to the Graduate School, Hiroshima University.

If applicants cannot graduate from their current university before the admission date, they will not be admitted to the Graduate School, Hiroshima University.

5 Expected software to be used for internet interview and expected date, time and location

Date: Wednesday, June 5 and Thursday, June 6, 2024 2024 6 5 6 6

Time: UTC 00:00 09:00 JST 09:00 18:00

Interviews relating to expected educational subjects and research abilities will be conducted through Zoom or other software.

Zoom

A connection test shall be conducted before the examination. (Date, time and location shall be informed separately.) The date and time of the interview will be arranged within the university and each applicant will be contacted.

6 Student Selection Method (Academic Examinations)

Interview (in English) **Conducted by several professors etc.**

7 Standard Criteria for Marking, Evaluation, and Acceptance

Students shall be selected via interview based on their expected research theme. The admission committee shall evaluate students into 4 grades (A, B, C, and D). Students who are evaluated as D will fail to pass the examination.

4 A B C D D

8 Announcement of Successful Applicants

Friday, June 28, 2024 2024 6 28

A written notice will be sent to all successful applicants by e-mail.

9 Notes

(1) Changes to application documents are not accepted after the original application documents have been received.

(2) Application documents and fee cannot be returned/refunded for any reason.

(3) Personal information submitted upon application will not be used for any purpose other than for the admission selection.

(4) **Applicants must consult with a prospective academic supervisor before application.**

(5) **Uploading Photographs for Online Application**

The uploaded photo, which will be used for identification at the examination, will be also used for your student ID card after enrollment and will

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Therefore, please upload an appropriate photo for use after enrollment as well.

Once uploaded, your photo will not be allowed to be replaced.A fee of JPY 1,000 will be charged for changing the content of your student ID card (photo and your name) after enrollment.

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10 Admission Procedure

Successful applicants shall submit necessary documents and pay the specified fees within the period of the admission procedure. (Applicants will receive all relevant details regarding the submission of documents and the payment of fees in a separate correspondence).

For Reference

(1) Fee

Admission Fee	282,000JPY	
Tuition Fee	(Per half year)	267,900JPY
	(Per year)	535,800JPY

All fees paid are non-returnable.

The above fees are correct as of April 2024. Any changes to the tuition fee will be applied if the tuition fee is changed during the enrollment procedure.

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The admission fee :
criteria and academic criteria. More details will be sent separately. We will notify you of the relevant details.

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(2) Hiroshima University Excellent Student Scholarship

Hiroshima University offers the second semester tuition exemption system to students with an excellent academic performance. These students will be selected based on their research results and other achievements during the program.

11 Others

Smoke-free campus

Smoking has been prohibited entirely in all HU campuses from January, 2020.

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TSUNEMATSU Miwako TEL 082-257-5346 FAX 082-257-5344 E-mail tsunematsu@hiroshima-u.ac.jp Department of Health Informatics	1 Collection of health statistics data and analysis of health-related factors 2 Evaluation of local health standards and analysis of the effects of health measures 3 Analysis of health-related social survey data
MORIYAMA Michiko TEL 082-257-5365 FAX 082-257-5369 E-mail morimich@hiroshima-u.ac.jp Department of Chronic Care & Family Nursing 2027 3 Retirement at the end of March 2027	1 Chronic Illness Disease Management & Population Health Management 2 Family Nursing 3 Healthcare system, Nursing case management 4 End-of-life care & Palliative care in Chronic Illness
TANABE Kazuaki TEL 082-257-5380 FAX 082-257-5384 E-mail ktanabe2@hiroshima-u.ac.jp Department of Perioperative and Critical Care Management	1 Research on Peri-operative Management and Post-operative Complications and Functional Disorders 2 Research on Pathophysiology and Treatments of Metabolic diseases 3 Research on Supportive care during Cancer Therapy 4 QOL Research on QOL in Patients with various Cancer
To be decided Department of Gerontological and Oncology Nursing	
To be decided Department of Mental Health and Psychiatric Nursing	
URABE Yukio TEL 082-257-5405 FAX 082-257-5405 E-mail yurabe@hiroshima-u.ac.jp Department of Sports Rehabilitation 2025 3 Retirement at the end of March 2025	
MAEDA Naoki Associate professor E-	

HAMADA Hironobu TEL 082-257-5420 FAX 082-257-5344 E-mail hirohamada@hiroshima-u.ac.jp Department of Physical Analysis and Therapeutic Sciences	1 Study of pulmonary rehabilitation 2 Study of rehabilitation for internal diseases 3 Study of exercise for health promotion
FUJITA Naoto TEL 082-257-5423 FAX 082-257-5423 E-mail fujitan@hiroshima-u.ac.jp Department of Bio-Environmental Adaptation Sciences	1 Influence of childhood exercise and detraining in adulthood 2 Complementary and alternative therapy for exercise training 3 HowMCID30B84/LanKhes islie for hysical activity ontiute to hilhod oesity

HANAOKA Hideaki TEL 082-257-5400 FAX 082-257-5400 E-mail hhanaoka@hiroshima-u.ac.jp Department of Gerontological and Community-Based Occupational Therapy	1 Research of care prevention for community-dwelling elderly people 2 Research of frail elderly people 3 QOL Research of elderly people with dementia
MATANI Ayumu TEL 082-257-1657 FAX 082-257-1723 E-mail matani@hiroshima-u.ac.jp Department of Brain Function Imaging	1 Intervention in emotional processes in the brain with transcranial Extracellular Impedance Control (tEIC) 2 Intervention in conflict processes in the brain with tEIC 3 fMRI fMRI study on neural effects of tEIC 4 fMRI study on the neural basis of KANSEI information processing 5 fMRI study on the neural basis of visual imagery generation and manipulation

Program of Medicinal Sciences

Professor	Contents of education and research
NOMURA Wataru TEL 082-257-5308 FAX 082-257-5309 E-mail wnomura@hiroshima-u.ac.jp Department of Genome and Biomolecular Engineering for Drug Discovery	1 DNA Genome editing using DNA recombinases 2 Suppression of off-target effects for precise genome editing 3 DNA Epigenome editing using DNA methylases 4 Gene regulation by artificial transcription factors 5 Chemical biology by protein engineering and genome editing 6 Visualization of in situ protein dynamics using fluorescent imaging 7 BRET BRET-based compound screening for drug discovery 8 Roles of phosphoinositides in signal transduction system 9 Roles of phosphoinositides in intracellular vesicular trafficking 10 Research on tumor metabolism
KOTAKE Yaichiro TEL 082-257-5325 FAX 082-257-5329 E-mail yaichiro@hiroshima-u.ac.jp Department of Neurochemistry and Environmental HealthSciences	1 Neurotoxic mechanism of environmental chemicals and its evaluation 2 5 -related neurotoxic chemicals 3 Metabolism, toxicity and human prediction of chemicals including pharmaceuticals 4 Neurotoxicity and metabolism of designer drugs

TAHARA Hidetoshi
TEL 082-257-5290
FAX 082-257-5294
E-mail toshi@hiroshima-u.ac.jp

Department of Cellular and Molecular Biology

1
Molecular mechanism of cellular senescence and cancer
2 G-tail
Development of anti-cancer drug targeting telomere G-tail
3 G-tail
Risk assessment of age-related disease using telomere G-tail
4
Cellular immortalization using telomerase
5 RNA
Biomarker using circulating microRNA
6 RNA
Nucleic acid biomedicine for cancer treatments
7 RNA
Molecular mechanism of microRNA regulation in aging and cancer
8
Extracellular vesicles including exosome in aging and cancer

KAMIYA Hiroyuki
TEL 082-257-5300
FAX 082-257-5334
E-mail hirokam@hiroshima-u.ac.jp

Department of Nucleic Acids Biochemistry

1 DNA
Mutagenesis by DNA damage
2 DNA DNA
Functions of DNA repair
3

NAGASE Kenichi TEL 082-257-5323 FAX 082-257-5323 E-mail nagase@hiroshima-u.ac.jp Department of Functional Molecular Science	1 Purification technology of antibody drugs using functional polymers. 2 Separation method of therapeutic cells by temperature-modulation 3 Analytical methods using functional polymers 4 Phos-tag technologies for proteomics
KUMAMOTO Takuya TEL 082-257-5184 FAX 082-257-5184 E-mail tkum632@hiroshima-u.ac.jp Department of Synthetic Organic Chemistry	1 Synthetic study toward biologically active natural products with complex structures 2 Design, synthesis and biological evaluation of probe compounds for the development of medicinal chemistry
MORIOKA Norimitsu TEL 082-257-5310 FAX 082-257-5314 E-mail mnori@hiroshima-u.ac.jp Department of Pharmacology	1 The mechanisms of induction and maintenance of chronic pain 2 The mechanisms of induction of mood disorders 3 The role of glial c 3
UCHIDA Yasuo TEL 082-257-5315 E-mail yuchida@hiroshima-u.ac.jp Department of Molecular Systems Pharmaceutics	1 The study using human brain tissue to clarify molecular mechanisms of brain disorders 2 Drug transport study for human central nervous system (CNS) barrier and drug delivery to the brain 3 Elucidation of pathological molecular mechanisms of CNS barrier using next generation quantitative proteomics 4 Development of novel proteomics techniques and big data analysis 5 Disease biomarker study using highly sensitive and precise quantitative proteomics
MATSUO Hiroaki TEL 082-257-5570 FAX 082-257-5598 E-mail hmatsuo@hiroshima-u.ac.jp Department of Pharmaceutical Services	1 Clinical pharmacokinetics and administration planning of drugs 2 Drug interactions 3 Drug informatics for proper use of pharmaceutical products 4 Drug allergy 5 Influence of drug intake on development of food allergy
SUGIYAMA Masanori TEL 082-257-5280 FAX 082-257-5284 E-mail sugi@hiroshima-u.ac.jp Department of Probiotic Science for Preventive Medicine	1 Prevention and improvement of fatty liver by plant-derived lactic acid bacteria 2 Prevention and improvement of the neuro-degenerative diseases by plant-derived lactic acid bacteria 3 Development of the next-generation therapeutic drug to infectious disease using probiotics 4 Meta genome analysis of the entero-bacterial flora and application to digestive organ diseases

Program of Biomedical Science

Professor

SAKAI Norio TEL 082-257-5140 FAX 082-257-5144 E-mail nsakai@hiroshima-u.ac.jp Department of Molecular and pharmacological neuroscience 2026 3 Retirement at the end of March 2026 TANAKA Shigeru Associate professor E-mail tanakamd@hiroshima-u.ac.jp	We analyze the pathophysiology of incurable disease, including stroke, neurodegenerative disease and psychiatric disease and search the novel therapeutic drug for curing them.
To be decided Department of Molecular Pathology	
TAKESHIMA Yukio TEL 082-257-5150 FAX 082-257-5154 E-mail ykotake@hiroshima-u.ac.jp Department of Pathology	Exploring biological natures of human cancers, especially lung cancer and malignant mesothelioma for accurate pathological diagnosis and adequate therapy
SAKAGUCHI Takemasa TEL 082-257-5157 FAX 082-257-5159 E-mail tsaka@hiroshima-u.ac.jp Department of Virology 2026 3 Retirement at the end of March 2026 Takashi Associate professor E-mail tirie@hiroshima-u.ac.jp	We investigate the mechanism of propagation and pathogenicity of viruses, such as paramyxovirus, influenza virus and hepatitis B virus, seeking preventive and therapeutic measures to virus infection.
FUKUMA Shingo TEL 082-257-5162 FAX 082-257-5164 E-mail shingo-fukuma@hiroshima-u.ac.jp Department of Epidemiology, Infectious Disease Control and Prevention	1 Epidemiological research using large-scale health and medical data, international collaborative research. 2 Clinical epidemiological research in various clinical fields. 3 Epidemiological studies on hepatitis viruses, international collaborative studies. 4 COVID19 PCR Genetic analysis for hepatitis, COVID19 and other infectious diseases (PCR, immunoserology, phylogenetic tree analysis, etc.). 5 Methodological extensions and applications in epidemiology, statistics, and data science. 6 Behavioral science and behavioral design in health systems. 7 Health policy evaluation. 8 Quality assessment of medical care.
KUBO Tatsuhiko TEL 082-257-5165 FAX 082-257-5169 E-mail tkubo@hiroshima-u.ac.jp Department of Public Health and Health Policy	1 Disaster Public health, social systems including health policy and health administration to protect health during emergencies and disasters 2 Occupational Health, epidemiological study of shift work and other occupational exposures 3 Emergency Medical Team (EMT), Daily reporting by the EMT such as the WHO EMT Minimum Data Set

NAGAO Masataka TEL 082-257-5170 FAX 082-257-5174 E-mail nagao@hiroshima-u.ac.jp Department of Forensic Medicine 2026 3 Retirement at the end of March 2026	Analysis noncholinergic mechanism of new organic phosphorus compounds
NAMERA Akira TEL 082-257- 5172 FAX 082-257-5172 E-mail namera@hiroshima-u.ac.jp Department of Forensic Medicine	1 Development of new analytical methods and procedures by using a mass spectrometry 2 Estimation of intaken drugs by a drug metabolite profiling 3 Development of new quick laboratory procedures to medical toxicant 4 Analysis of drug ingestion history 5 Identifying of ingredients of poisonous plants
YASUDA Tomoharu TEL 082-257-5175 FAX 082-257-5179 E-mail yasudat@hiroshima-u.ac.jp Department of Immunology	1 The antigen receptor and mediated signals in the immune system 2 The regulation of immune cell division limit and hematological malignancy 3 The regulation of immune cell lifespan 4 The immune surveillance to viral infection and cancer 5 The allergic diseases and immune tolerance 6 The gene therapy of primary immunodeficiency
To be decided Department of Calcified Tissue Biology	
TERAYAMA Ryuji TEL 082-257-5623 FAX 082-257-5689 E-mail ryujit@hiroshima-u.ac.jp Department of Maxillofacial Anatomy and Neuroscience	Molecular biological and behavioral studies for understanding nociceptive transmission and mechanisms underlying the development of abnormal pain sensations
SUGITA Makoto TEL 082-257-5626 FAX 082-257-5627 E-mail sugisan@hiroshima-u.ac.jp Department of Physiology and Oral Physiology	1 To study the cellular mechanisms underlying taste perception and taste-evoked emotional responses 2 To investigate the molecular mechanisms underlying ion and fluid transport in the salivary glands
SHUKUNAMI Chisa TEL 082-257-5628 FAX 082-257-5629 E-mail shukunam@hiroshima-u.ac.jp Department of Molecular Biology and Biochemistry	We are aiming at the elucidation of the molecular and cellular mechanisms underlying the formation and regeneration of cartilage, bone, teeth, tendon, and ligament.
To be decided Department of Oral and Maxillofacial Pathobiology	

KOMATSUZAWA Hitoshi TEL 082-257-5635 FAX 082-257-5639 E-mail komatsuz@hiroshima-u.ac.jp Department of Bacteriology	1 Factors for virulence and antibiotic resistance in Staphylococcus aureus 2 Mechanism of S. aureus and oral streptococci infection to the host 3 Analysis of oral microbiome 4 Factors for virulence and antibiotic resistance in periodontal bacteria 5 MDRP MRSA ESBL Molecular epidemiology of nosocomial antimicrobial resistant pathogens (MDRP, MRSA, ESBL producers) 6 Study on new antibacterial agents
AGO Yukio TEL 082-257-5640 FAX 082-257-5640 E-mail yukioago@hiroshima-u.ac.jp Department of Cellular and Molecular Pharmacology	1 Studies on the mechanisms of action of the drugs in depression, schizophrenia, anxiety, and neurodegenerative diseases 2 Studies on the roles of gene-environment interactions in brain development 3 Studies on the roles of cell migration, adhesion, and proliferation in biological and pathological processes
KATO Koichi TEL 082-257-5645 FAX 082-257-5649 E-mail kokato@hiroshima-u.ac.jp Department of Biomaterials	1 Technologies for manufacturing stem cells to be used in clinical regenerative dentistry and medicine 2 Design principles that enable duplication of histologically-ordered tissue structure found in living organisms
TAKAHASHI Ichiro TEL 082-257-5650 FAX 082-257-5650 E-mail snatum@hiroshima-u.ac.jp Department of Mucosal Immunology 2025 3 Retirement at the end of March 2025 TOBIUME Kei Associate professor E-mail tobi5651@ hiroshima-u.ac.jp	Molecular and cellular analysis for the creation and maintenance of physiological inflammation in the mucosa-associated peripheral tissues
FUJII Makiko TEL 082-257-1503 FAX 082-257-1572 E-mail fujiim@hiroshima-u.ac.jp Department of Genomic Oncology and Oral Medicine	1 Development of molecular target therapy for cancer 2 Establishment of cancer treatment using heavy ion radiotherapy 3 Research on mechanisms of squamous cell carcinoma invasion and metastasis 4 TGF- TGF- 5 Research and development of educational methods in health care professional education
YOSHINAGA Shinji TEL 082-257-5852 FAX 082-256-7106 E-mail syoshinaga@hiroshima-u.ac.jp Department of Environmetrics and Biometrics	Evaluation of health effects of ionizing radiation such as cancer and non-cancer diseases by epidemiological approaches, and development and application of statistical methods in the bio-medical fields

YASUDA Hiroshi TEL 082-257-5872 FAX 082-257-5873 E-mail hyasuda@hiroshima-u.ac.jp Department of Radiation Biophysics	While radiation has been widely used for diagnosis, therapy and other purposes, excessive exposure to radiation could cause a damage on our health and it is needed to keep the radiation exposure as low as reasonably achievable. In this course, you will learn the necessary skills to achieve the radiation protection principles in the most appropriate way, studying details about quantities for radiation dosimetry, biological effects of radiation, techniques and instruments for radiation safety management, radiation emergency responses and related subjects.
KAWAKAMI Hideshi TEL 082-257-5846 FAX 082-257-5850 E-mail hkawakam@hiroshima-u.ac.jp Department of Molecular Epidemiology 2025 3 Retirement at the end of March 2025 KUME Kodai Associate professor E-mail kumek@hiroshima-u.ac.jp	To uncover causative genes in neurological disease
WATANABE Tomonobu TEL 082-257-5938 E-mail twatanabe@hiroshima-u.ac.jp Department of Stem Cell Biology	In this course, we aim to elucidate (1) the mechanism by which individual differences in resistance to radioactive disorders occur, and (2) the relationship between the undifferentiated maintenance function of stem cells and radiation exposure, in combination with development of advanced microscopy. We accept students from science and engineering as well as biology and medicine.
TASHIRO Satoshi TEL 082-257-5817 FAX 082-256-7104 E-mail ktashiro@hiroshima-u.ac.jp Department of Cellular Biology 2027 3 Retirement at the end of March 2027 Associate professor E-mail jysun@hiroshima-u.ac.jp	Study of the dynamic organization of DNA repair system in human cells by using the newly developed bioimaging analysis methods
KAMINUMA Osamu TEL 082-257-5819 FAX 082-257-1556 E-mail okami@hiroshima-u.ac.jp Department of Disease Model	Clarification of cellular and molecular mechanisms and development of novel diagnostic and therapeutic methods for allergic and immunological diseases by using innovative somatic cell nuclear transfer and genetic modification technologies.

MATSUURA Shinya TEL 082-257-5809 FAX 082-256-7101 E-mail shinya@hiroshima-u.ac.jp Department of Genetics and Cell Biology 2026 3 Retirement at the end of March 2026 ASANO Takaki Associate professor E-mail tasano02@hiroshima-u.ac.jp	DNA Our research aim is to elucidate the molecular mechanisms of genome stability and maintenance.
To be decided Department of Molecular Oncology	
HIROHASHI Nobuyuki TEL 082-257-5839 FAX 082-256-7105 E-mail hirohasi@hiroshima-u.ac.jp Department of Radiation Disaster Medicine	We focus on the mechanisms of host-defense against radiation and hypoxia in basic and clinical fields including developments for molecular targeting therapies against radiation damages and cancer by genomic research on hypoxic signals, and new approaches of the establishment of nuclear disaster medical systems.
HIGASHI Yukihito TEL 082-257-5831 FAX 082-257-5831 E-mail yhigashi@hiroshima-u.ac.jp Department of Regenerative Medicine 2027 3 Retirement at the end of March 2027 MARUHASHI Tatuya Associate professor E-mail maru0512@hiroshima-u.ac.jp	We are investigating (1) the development of cell therapy, cell repair, and angiogenic biology for regenerative medicine, (2) repair system of genome damage induced by radiation in endothelial cells, (3) role of endothelial cells/endothelial progenitor cells in atherosclerosis, (4) human disorders lacking critical cellular defense against genome damage.
MIHARA Naoki TEL 082-257-1943 FAX 082-257-1701 E-mail naoki-mihara@hiroshima-u.ac.jp Department of Medical Informatics and Systems Management	1 Characteristics of medical information and its system 2 Medical supporting system 3 Function, implementation and operation, evaluation and improvement of hospital information system 4 Standardization of medical information 5 Data management and analysis, and utilization in the field of health and welfare 6 Information security and personal information protection 7 Information processing technology and application in medicine 8 Human resource development in medical informatics

OGAWA Keiko
TEL 082-257-1921
FAX 082-257-2021
E-mail okeiko22@hiroshima-u.ac.jp

Department of Kampo Japanese Traditional Medicine

1
The effect of Kampo medicine on lymphatic malformations
2 COVID-19
The effect of Kampo medicine on COVID-19
3
The effects of direct moxibustion on immune function
4 (Functional dyspepsia: FD)
The therapeutic effect of Kampo medicine on Functional Dyspepsia (FD)
5
The effect of daiobotanpito on colon diverticulitis
6
Influence of Kampo medicine on blood coagulation
7
Investigation of changes in immune cell function induced by Kampo medicine in patients with solid cancers
8

SOTOMARU Yusuke
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E-mail sotomaru@hiroshima-u.ac.jp

Department of Natural Science Center for Basic Research and Development

in vitro
in vivo

Cell (in vitro) and animal (in vivo) experiments for analyzing the life science phenomenon such as development, differentiation, aging and cancer

1 Molecular biology for childhood solid tumors
2 Molecular biology for adult Cancers
3 Cell Immortality and carcinogenesis
4 Gene amplification and deletion analysis
5 Whole genome analysis for gene aberrations
6 Whole genome analysis for gene expression
7 Basic and clinical research for surgical infection and vital response
8 Drug sensitive and resistance of infectious organisms
9 Basic research for inflammatory bowel diseases
10 Research of molecular targeting therapy in cancer
11 Basic research for disease susceptibility
12 Genetic polymorphism and disease susceptibility
13 Regenerative medicine and mesenchymal stem cell
14 Liver ischemia and regeneration
15 Regeneration of pancreatic islet cells
16 Improvement/development of the reproduction engineering in the mammal
17 Improvement/development of the production system of the genome-edited and genetically-modified animals
18 Development of the human disease model animals
19 Maintenance and analysis of the human disease model animals
20 Production and abnormality analysis of the clone animals
21 Elucidation of differentiation mechanism of the mammalian embryos

SUGIYAMA Daisuk TEL 082-257-1949 FAX 082-257-1993 E-mail cedarmt@hiroshima-u.ac.jp Department of Translational Research	1 Drug target Identification using animal models and human cells 2 mode of action Analysis of mode of action using animal models and human cells 3 Pre-clinical proof of concept and translational research for commercialization 4 Production of medical device prototype and verification of safety and effectiveness 5 Translational research to formulate and verify hypotheses based on trend surveys of seeds demands for clinical practice and practical application from basic research 6 Translational research to formulate and verify hypotheses based on trend surveys of needs required for clinical practice and practical use 7 Translational research to formulate and verify hypotheses based on development trend surveys in clinical and regulatory settings 8 Translational research to formulate and verify hypotheses based on a trend survey of industry-academia-government collaboration for medical development 9 International comparative research in translational research area 10 Non-clinical studies and translational research for pharmaceutical development on tissue adhesion and fibrous by extracellular matrix. 11 Research related to health care policy to aim for pharmaceuticals through translational research that bridges research seeds. 12 Statistical methods in clinical research 13 Research on preventive medicince using health examination data
MARUYAMA Fumito TEL 082-424-7048 E-mail fumito@hiroshima-u.ac.jp Department of Microbial Genomics and Ecology	i) ii) iii) iv) v) : https://mge.hiroshima-u.ac.jp Our research focuses on understanding how microorganisms interact with each other, with their symbiotic hosts and with the environment, both experimentally and through big data analysis. In particular, we focus on the relationship between climate change and microbes (infectious diseases), genomic dynamics of pathogenic microbes in habitats, and pathogenic microbes and antibiotic resistance in aquaculture. In this framework, we will focus on: i) homeostasis mechanisms through the analysis of microbial community (microbiome) dynamics in the environment using large DNA sequence data analysis and bioinformatics; ii) definition of abnormal and normal states through microbial interaction analysis and holobiome analysis; and iii) the experimental study of bacterial evolution and diversity using comparative (meta)genomic and epigenomic analysis. iii) experimental and bioinformatics studies of microbial evolution and diversity by comparative (metagenomic) and epigenomic analyses, iv) basic research on the design of environments with artificial mixtures of microorganisms, and v) the search for useful microorganisms (especially, bacteria) from the environment (bioaerosols), which is so called bioprospecting. For more information see below: https://mge.hiroshima-u.ac.jp/en/