AY2024

Graduate School of Biomedical and Health Sciences

(Doctoral Course　3years)

Division of Integrated Health Sciences

2024

Student Application Guidelines

[Special Selection for International Students] (Internet Interview)

For Students Living Outside Japan

October 2023

Hiroshima University

All dates and times mentioned are Japan Standard Time.

< 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

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.

< 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.

Privacy Policy

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.

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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 March 31, 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 **by 3:00 PM on Friday, October 27, 2023.**

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

2023 10 27 3

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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 fill in the prescribed form.
	Certificate of Past Research Activity	Please fill in the prescribed form.
	Summary of Past Research and Clinical Activities etc.	Please fill in the prescribed form.
	List of Past Research Achievements	Please fill in the prescribed form.
	Certificate of Graduation, or Certificate of Expected Graduation ( )	Must be issued by the dean or president of the university or college.
	Those who have graduated or a current student of a university in China.	If you are a graduate or a current student of a university in China, please obtain the 历证书查询 5: ; (htt , 毕业证书 5 9 硕 证书 (Bachelor/Master's 6 (Graduates or current students from universities in other countries or regions <including Taiwan, Hong Kong and Macau> do not need to submit them.) Graduates: Online Verification Report of Higher Education Qualification Certificate (历证书电 备) Expected Graduates: Online Verification Report of Student Record(线 验证报) Please note that applicants must pay the issuing fee for the Online Verification Report (2 / certificate) by themselves. Also be sure that there are 20 or more days left until the expiration date of the online verification at the time of its submission. 毕业证书 证书 (历证书查询

(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. A4 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)	Copy of passport	Submit a copy of the page with your name, passport number, photo and expiration date.
(D)	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
(E)	The privately financed international students only Documents certifying an English language test score	O 3 5 7 8 or O the standards of the external English examinations designated by the Graduate School of 4 :

CEFR CEFR

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 standards of the external English examinations designated by the

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: December 6 December 7, 2023 (weekday) 12 6 12 7
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

Monday, December 25, 2023 2023 12 25
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 be maintained

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.

( ) 1,000

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 2023. 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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: 7 5 8 7 e and Foreign Trade Act, and conducts strict examinations for acceptance of international students, etc. Therefore, please be advised that International applicants may be unable to receive their desired education or conduct their desired research due to the restriction by the above regulations.

Address for Application and Inquiries

Student Support Group(Graduate Students),
Graduate School of Biomedical and Health Sciences, Hiroshima University

1-2-3, Kasumi, Minami-Ku, Hiroshima, Japan (Zip 734-8553)
734-8553 2 3
TEL +81-82-257-1538 5051
E-mail: kasumi-gaku-g@office.hiroshima-u.ac.jp

Laboratories & Research Topics

*** If there is a description in the column of teachers scheduled to be instructed (scheduled to retire in March XX), you may not be able to receive guidance until the graduation. Be sure to consult with your desired academic advisor about retirement guidance.**

3

Program of Health Sciences
in the fields of oral health sciences

Professor	Contents of education and research
OHTA Koji TEL 082-257-5958 FAX 082-257-5945 E-mail otkouji @hiroshima-u.ac.jp Department of Public Oral Health	1 Study on promotion of oral health including perioperative oral care 2 Study on oral function in the elderly 3 Study on new prevention for oral diseases 4 Study on the activities promoting oral health at school
NAITO Mariko TEL 082-257-5959 FAX 082-257-5795 E-mail naitom@hiroshima-u.ac.jp Department of Oral Epidemiology	1 Epidemiological studies regarding associations between oral health and general health 2 Molecular epidemiology and gene-environmental interaction 3 Research for dysphagia patients and their caregivers 4 Quality of Life Patient-reported Outcome QOL/PRO research
TAKEMOTO Toshinobu TEL 082-257-5796 FAX 082-257-5945 E-mail takefn@hiroshima-u.ac.jp Department of Oral Health Management	1 Dental hygienists education 2 BT/F4 9 Tf1 0 0 1 214.13 369.65 Tm0 G209A65 00EMC /Span <9 TJET33(m)58(g)47(i)

NIKAWA Hiroki TEL 082-257-5097 FAX 082-257-5097 E-mail hirocky@hiroshima-u.ac.jp Department of Oral Biology & Engineering	1 Application of probiotics to oral cavity 2 Denture plaque and denture cleansers 3 Bone metabolisms, incl. osteoclasts and osteoblasts 4 Design and application of antimicrobial peptides 5 Denture and cognitive function 6 Masticatory function and systemic function

To be decided Department of Mental Health and Psychiatric Nursing	
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 Communi and Public Health Nursing	
KAWASAKI Hiromi TEL 082-257-5395 FAX 082-257-5399 E-mail khiromi@hiroshima-u.ac.jp Department of School and Public Health Nursing 2026 3 Retirement at the end of March 2026	1 Research on health promotion in community and school 2 Research on method and evaluation of health education and health guidance 3 Research on support to children and families 4 Research on health issue and city planning in community
To be decided Department of Gerontological and Oncology 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 Noriaki Associate professor E-mail norimmi@hiroshima-u.ac.jp	1 Research for sports injury and rehabilitation 2 outcome Research about muscle strength, joint mobility, proprioceptive function, analysis for human functional movement, and its outcome measurement 3 Research and support for disabled sports to Olympic/ Paralympic game for Tokyo 2020 4 ACL Sports injury prevention Knee joint, Ankle joint, Shoulder joint, and low back pain 5 Physical fitness for adolescent and elderly peoples 6 Social recovery research after disaster 7 New development for welfare equipment and patent
To be decided Department of Anatomy and Histology	
TAKAHASHI Makoto TEL 082-257-5415 FAX 082-257-5344 E-mail mako2@hiroshima-u.ac.jp Department of Biomechanics	1 Biomechanics of human movements 2 Neural control of human gait and posture 3 Mechanisms of fall and fall prevention strategies in elderly and/or physically-disabled persons

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 How does dislike for physical activity contribute to childhood obesity?
URAKAWA Susumu TEL 082-257-5430 FAX 082-257-5430 E-mail urakawas@hiroshima-u.ac.jp Department of Musculoskeletal Functional research and regeneration	1 Brain activity during the rehabilitative motor-task 2 How the physiotherapy improve the musculoskeletal functions including the muscular pain 3 The effects of enriched environment on brain plasticity 4 Development of the rehabilitation therapy for skeletal muscle mitochondrial dysfunction with heart failure and diabetes
To be decided Department of Integrative Physiology	
MIYAGUCHI Hideki TEL 082-257-5440 FAX 082-257-5444 E-mail hmiya@hiroshima-u.ac.jp Department of Human Behavior Science of Occupational Therapy	1 Evidence Based Occupational Therapy 2 Risk perception and Risk communication 3 Occupational Therapy for the pediatrics 4 Neuro behavior rehabilitation
KIRIMOTO Hikari TEL 082-257-5445 FAX 082-257-5445 E-mail hkirimoto@hiroshima-u.ac.jp Department of Sensorimotor Neuroscience	1 Non-invasive brain stimulation to facilitate the treatment of various neurological disorders 2 Neural basis of precise hand movement
OKAMURA Hitoshi TEL 082-257-5450 FAX 082-257-5454 E-mail hokamura@hiroshima-u.ac.jp Department of Psychosocial Rehabilitation	1 Cancer rehabilitation 2 Rehabilitation for older adults with or without dementia 3 Rehabilitation for patients with mental disability

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 Gene correction (genome editing) for gene therapy 4 iPS Mutations and genome stability in iPS cells
OZAWA Koichiro TEL 082-257-5332 FAX 082-257-5332 E-mail ozawak@hiroshima-u.ac.jp Department of Pharmacotherapy 2025 3 Retirement at the end of March 2025 YANASE Yuhki Associate professor E-mail yyanase@hiroshima-u.ac.jp	1 Clinical pharmaceutical researches that support the proper use of pharmaceutical products 2 Elucidation of the mechanisms of stress responses and drug targets 3 The research of clinical drug assessment 4 The development of new methods to assess drug efficacy and drug monitoring 5 The research about functions and disease therapy of the store operated calcium channel
KURODA Teruo TEL 082-257-5655 FAX 082-257-5655 E-mail tkuroda@hiroshima-u.ac.jp Department of Microbiology	1 Screening of seed compounds which has antimicrobial activity and Identification of its action target 2 Study of antiseptic resistance mechanism 3 Study of emergence of multidrug resistant bacteria 4 Study of tolerance for Na+ in marine bacteria 5 Structural study of microbial useful enzymes for the industrial application and target proteins for the drug development 6 Functional analysis of antibiotic biosynthetic genes from actinomycetes and its application for the production of useful compounds
MATSUNAMI Katsuyoshi TEL 082-257-8553 FAX 082-257-8553 E-mail matunami@hiroshima-u.ac.jp Department of Pharmacognosy	1 Phytochemical study of anti-Leishmania compounds 2 Natural products chemistry of marine organisms 3 Analysis of chemical structure by spectroscopic techniques

To be decided Department of Functional Molecular Science	
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 cells in induction of Alzheime
UCHIDA Yasuo TEL 082-257-5315 E-mail yuchida@hiroshima-u.ac.jp Department of Pharmaceutics and Therapeutics	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

Program of Biomedical Science

Professor	Contents of education and research
IKEGAMI Koji TEL 082-257-5110 FAX 082-257-5114 E-mail k-ikegami@hiroshima-u.ac.jp Department of Anatomy and Developmental Biology	We explore the morphological and functional changes of cells or cellular populations. We manipulate mammalian cells and avian embryos as experimental materials using technologies such as genome editing and microsurgery to observe response of cells, tissues, or organs to changes of the environment/state or over time in a multidimensional manner. In addition, we explore biological evolution, focusing on gametes.
AIZAWA Hidenori TEL 082-257-5115 E-mail haizawa@hiroshima-u.ac.jp Department of Neurobiology	We use mice and fish to address roles of specific neural circuits in the pathophysiology of the depression and sleep disorders by interdisciplinary approaches combining genetics with physiology and behavioral science.
FUJIWARA Yuichiro TEL E-mail	

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 IRIE 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.
To be decided Department of Epidemiology, Infectious Disease Control and Prevention	
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

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	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	
To be decided Department of Experimental 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	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 Development of a diagnostic system focusing on Kampo medicine diagnosis 9 The effect of goreisan on trigeminal neuralgia 10 The effect of contact needle therapy (acupuncture) on fatigue in cancer patients hospitalized for palliative care 11 The effect of acupuncture treatment for cancer patients with chemotherapy-induced neuropathy 12 The efficacy of Kampo medicine for Nonalcoholic steatohepatitis (NASH) 13 The effect of acupressure on pediatric cancer patients 14 Research on Traditional medicine classics

KAWAGUCHI Hiroyuki TEL 082-257-5748 FAX 082-257-5717 E-mail hkawarp@hiroshima-u.ac.jp Department of Dental Education	1 Development of novel curriculum for dental education 2 Development of effective learning methods for clinical competencies 3 Development of novel assessments for clinical competencies 4 Epidemiological studies on clinical evaluation of perioperative oral management 5 Clinical studies on relationships between dental treatments and systemic diseases
SOTOMARU Yusuke TEL 082-257-5106 FAX 082-257-5109 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)