

**2024**

**AY2024 Graduate School of Biomedical and Health Sciences (Doctoral Course 3years)**

**Division of Integrated Health Sciences**

# **Student Application Guidelines**

**2023 11**

**November 2023 Hiroshima University**

**\*Examination dates and the Selection methods are subject to change due to COVID-19.  
The changes shall be announced on the website of Hiroshima University.**

**All dates and times mentioned are Japan Standard Time.**



## Admission Policy

医系科学研究科では、ディプロマ・ポリシー及びカリキュラム・ポリシーを踏まえ、入学前に以下のような志や意欲をもち、それに必要な基礎学力を持つ学生の入学を期待する。

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:

- (1) 広島大学の理念に共感し、現在の人類社会が抱える課題又は今後抱えるかもしれない課題に、自らの教養、医学・歯学・薬学・保健学における卓越した知識、高度な能力及び行動力によりチャレンジすることで、多様性を育む自由で平和な国際社会の構築に貢献しようとする意欲を持つ人

Those who sympathize with the philosophy of Hiroshima University, and who are willing to contribute to building a global community that embraces diversity, freedom and peace by challenging problems that human society is facing or may face in the future utilizing their culture, prominent knowledge and advanced skills in medicine, dentistry, pharmaceutical science and health science, and ability to take action

- (2) 幅広い教養と共に、狭い専門領域にとらわれない学際的かつ国際的な視野と医学・歯学・薬学・保健学における卓越した知識と高度な研究能力を身に付け、多角的視点から「持続可能な発展を導く科学」としての平和科学の創生を目指す人、又は学問での研鑽の成果を還元することにより地域や国際社会に貢献したいという志を持つ人

diversified standpoints, with their broad culture, interdisciplinary and international viewpoints, and prominent

knowledge and advanced research skills in medicine, dentistry, pharmaceutical science and health science, and who are willing to contribute to local and global communities by returning fruitful outcome from their study

- (3) 世界中から好奇心にあふれる若者や学び直しの社会人が集う、世界トップレベルの教育・研究環境を提供するキャンパスで、多様性に関する深い理解と国際的なコミュニケーション能力を身に付け、持続可能な共生社会を実現しようとする意欲を持つ人

Those who are willing to realize sustainable and inclusive society by acquiring deep understanding about diversity and global communication environment and that attracts students from all over the world, including youth with full of curiosity and adults who are enthusiastic about learning again

これらの人を受け入れるため、それぞれのディプロマ・ポリシー及びカリキュラム・ポリシーを踏まえ、面接試験、学力試験、外部試験等を用いた多面的・総合的な評価による選抜を実施する。

In order to admit such individuals, our graduate school 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 Health Sciences >

保健科学プログラムのディプロマ・ポリシー及びカリキュラム・ポリシーを踏まえ、次のような学生の入学を期待する。

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

- (1) 医学的見識とともに、保健科学(看護学・保健学・口腔保健学・口腔工学)分野の学問を深め、各分野における教育・研究を推進する能力を身に付けたい人

Those who are willing to deepen their knowledge in medicine and in the fields of health sciences (nursing, health sciences, oral health and oral engineering) and acquire abilities to promote education and/or research in these fields

- (2) 大学等における教育者、食育・健康知識の発展を担う研究者及びIT・分子生物学等を基盤とした、臨床システムの普及を担う高度専門知識を有する教育者・研究者となり、活躍したい人

Those who are willing to be active educators in universities or colleges, researchers who promote the development of dietary/nutrition and healthcare education, or educators/researchers with high expertise who promote expanded use of a clinical system utilizing IT and based on molecular biology and other advanced knowledge

- (3) 保健・医療・福祉の現場で活躍できる指導的専門職者・管理者を目指す人

Those who are willing to become professional instructors or administrators who can actively work in the fields of healthcare / medical care / welfare

- (4) 先進的な健康保健学(看護学・保健学・口腔保健学・口腔工学)を遂行できる能力を身に付けたい人

Those who are willing to acquire abilities to practice advanced health science research (nursing, health sciences, oral health and oral engineering)

これらの人を受け入れるため、それぞれのディプロマ・ポリシー及びカリキュラム・ポリシーを踏まえ、面接試験、学力試験、外部試験等を用いた多面的・総合的な評価による選抜を実施する。

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 Medicinal Sciences** >

薬科学プログラムのディプロマ・ポリシー及びカリキュラム・ポリシーを踏まえ、次のような学生の入学を期待する。

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

- (1) 主体的に薬科学研究を展開できる能力を身に付けたい人

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

- (2) 指導的立場に立って我が国の創薬科学・生命薬科学に関する教育・研究を推進する能力を身に付けたい人

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

- (3) 新薬開発を目指し国際的に活躍したい人

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

これらの人を受け入れるため、それぞれのディプロマ・ポリシー及びカリキュラム・ポリシーを踏まえ、面接試験、学力試験、外部試験等を用いた多面的・総合的な評価による選抜を実施する。

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** >

のディプロマ・ポリシー及びカリキュラム・ポリシーを踏まえ、次のような学生の入学を期待する。

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

- (1) 生命医科学、医学・歯学における幅広い知識を身に付けたい人

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

- (2) 生命医科学、医学・歯学において応用的研究に取り組みたい人

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

- (3) 教育・研究機関において、基礎医学・歯学研究を推進したい人

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

- (4) バイオテクノロジー、医療等に関係する企業等において研究開発又は医療関係業務に携わりたい人

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) 医療機関において、高い研究志向を持ち医療人としての業務に携わりたい人

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

これらの人を受け入れるため、それぞれのディプロマ・ポリシー及びカリキュラム・ポリシーを踏まえ、面接試験、学力試験、外部試験等を用いた多面的・総合的な評価による選抜を実施する。

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.

Graduate School of Biomedical and Health Sciences, Hiroshima University, is accepting Doctoral Course-seeking applicants (Division of Integrated Health Sciences) for April 2024 enrollment in the following programs. could read each item of requirements carefully. Some items, including selection methods, can differ from those for applicants who completed a program in other graduate schools.

### Admission Selection and Number of Students

Admission Selections	Programs		
	Program of Health Sciences	Program of Medicinal Sciences	Program of Biomedical Science
General Selection			
Including Master's degree holders who are advancing from a Graduate School of Biomedical and Health Sciences master's degree program.			

Special Selection for Students with Careers

Candidates who are employed at the time of application

Eligibility for Application

- (1) ( 104 1 ( 28 9 ) 5 2 )  
-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.)
- (2) ad
- (3) of education provided by a school of that foreign country in Japan
- (4) stitution 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, (5) ( 51 72 ) 1 2 1972 12 11 ( )
- (6) (4) 16 2  
Those who have completed a course at an overseas school, educational institution designated in the above (4), or the United Nations University, and are recognized as having academic ability equivalent or superior to 16-(2) of the Standards for Establishment of Graduate Schools
- (7) 118  
Those appointed by the MEXT (Ministry of Education Notice No. 118 of 1989) 2  
Those who, after graduating from university or college, have undertaken at least two years of research at a university, college, or research institute, and are deemed by the Graduate School on the basis of their rofessional degree 16 16 2
- (8) 24  
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)
- (9) 2024 3 31  
Those who are expected to obtain one of the qualifications described above by March 31, 2024.

## Preliminary Evaluation for Application Eligibility

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2

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**All international students must apply for the preliminary evaluation. (International students enrolled in master's course at this Graduate School are not required to preliminary evaluation.)**

Applications shall be evaluated for their eligibility in advance, and are required to submit all required documents by postal

5) Postal Address for

Submissions. It must be arrived at the Student Support Office **by 3:00 PM on Friday, December 1, 2023**. Applicants will be able to apply after receiving the evaluation result.

In case of applying for the same division and 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.

### Documents required for submission

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

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.

		and Macau> do not need to submit them.	Web	20
		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.		
		( / 历证书电 备 ) / Online		
		Verification Report of Higher Education Qualification Certificate		
		( / Online Verification Report of Student Record		

\*1: For international students, 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.

\*3: If certificates and other documents to be submitted are written in a language other than Japanese or English, then Japanese or English translations must be attached. Translations may be prepared by applicants.

(2) , , , 2

Notification of evaluation result will be sent by e-mail on **Monday, December 18, 2023**.

(3) 5

Any questions regarding application eligibility should be inquired to the Student Support Group listed. (S

5) Postal Address for Submissions.

## Application Procedure

### Application period

Item	Period
Data entry and application fee payment	, , , 3 , , , , From Tuesday, December 19, 2023 to 3:00 PM on Tuesday, December 26, 2023, without exception
Submission of application documents which must be mailed	

9 3 (5)

\*If an applicant brings the documents to be mailed in person, the Student Support Group will be open from 9:00 AM to 3:00 PM. The office will be closed on Saturdays, Sundays and holidays.

\* It is not necessary to re-submit documents that have already been submitted during the preliminary evaluation for application eligibility.

Application Fee 30,000JPY

Applicants will pay Application Fee by Online Application System.



### Application documents to be mailed

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Applicants must submit all the documents listed below to (5) Postal Address for Submissions within the above stated Application Period.

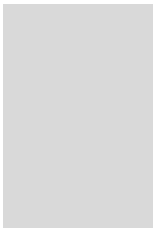
If the name on the submitted documents is different from the name on the passport due to a change of family name, etc., please attach a copy of the document showing the change.

	Documents	Contents
A	Confirmation Sheet	Please fill in the prescribed form. (Access the Hiroshima University Graduate School of Biomedical and Health Sciences website and download the form.) For international students, please enter your name as shown in your passport.
B	Academic Transcript	dean or president of the graduate school or equivalent.
C	Certificate of Graduation, or Certificate of Expected Graduation	Must be issued by the dean or president of the graduate school or equivalent.  <b>* It is not necessary to re-submit documents that have already been submitted during the preliminary evaluation for application eligibility.</b>  <b>*Submission is not required for those who are expected to complete the Master's Course in the Graduate School of Biomedical and Health Sciences, Hiroshima University.</b>
D	<b>For foreign applicants only</b> Copy of Certificate of Residence or Certificate of Items Stated in Resident Register in Japan	Foreign applicants who currently reside in Japan must submit the Copy of Certificate of Residence or the Certificate of Items Stated in Resident Register.  <b>*Submission is not required for those who are currently studying in our school.</b>
E	<b>For foreign applicants only</b> Copy of passport	1
		Submit a copy of the page with your name, passport number, photo and expiration date.

F		<p>(a) 1 rch 31, 2024 (for the April enrollment)</p> <p>(b) 1 different topic from the field in</p> <p>(a)(b) Use the following format for both (a) and (b): A4 3 5,000 A summary of about 5,000 Japanese letters including charts and tables, on three A4 size pages, typed in horizontal writing using a word processor or PC 3 2.5 2 Margins should be no less than 3 cm on the top, 2.5 cm on the bottom, and 2 cm on the both sides.</p> <p><b>*Submission is not required for those who are expected to complete the Master's Course in the Graduate School of Biomedical and Health Sciences, Hiroshima University.</b></p>
G	<p><b>Only for applicants for Special Selection for Students with Careers and Special Selection for Senior Citizens</b> Statement of motivation for application</p>	<p>Please fill in the prescribed form. (Access the Hiroshima University Graduate School of Biomedical and Health Sciences website and download the form.) 1,500</p> <p>About 1 sheet of A4 paper-(include the field[s] of interest, ambition for research, future plan,etc. Applicants for Careers Student Selection can describe the relationship between their job experience and motivation for application. Foreign students can write in English.)</p>
H	<p>(P11)</p> <p>(P12) An original transcript of the External English language examinations that meets a score of A2 The CEFR Comparison Table (P11 The English Language Proficiency Tests designated by the Graduate School of Biomedical and Health Science "(P12)</p>	<p><b>All Programs</b></p> <p>(P11) (P12)</p> <p>Be sure to submit an original transcript of The CEFR Comparison Table 11 The English Language Proficiency Tests designated by the Graduate School of Biomedical and Health Science"(P12). <b>If you are unable to submit this document, you will not be eligible to take the examination.</b></p> <p><b>Note</b> <b>Transcripts from online home examinations cannot be utilized.</b></p>

	<p>Please note that the submission documents will not be returned.</p>	<p>Regardless of the specific expiration date set by the organization of each external English language examination, the original transcript which meet all the following requirements are valid.</p> <p><b>1.External English language examinations which are conducted April 1,2021 or later</b>  <b>2.External English language examinations of which you can submit the original transcript by the deadline of the submission period</b></p> <p><b>Applicants who do not need to submit a transcript of an External English language examinations</b></p> <p>○フェニックス特別選抜志願者 Special Selection for Senior Citizens  ○本学大学院の博士課程前期又は修士課程を修了後、5年以内に出願する者</p> <p>Excluding those who are 54 years old or younger at the time of admission and who are entering from the Health Science Program Nurse Career Support Course.</p> <p>○本学大学院の博士課程前期又は修士課程から引き続き進学する者  ただし、54 保健科学プログラム キャリア支援コースからの進学者を除く( 54 キャリア支援コースからの進学者は「H」の書類提出が必要です)</p> <p>uate School of Hiroshima University.</p> <p>Excluding those who are 54 years old or younger at the time of admission and who are entering from the Health Science Program Nurse Career Support Course.</p>
I	<p><b>Of those who apply for Program of Health Sciences, only for applicants for Special Selection for Students with Careers</b></p> <p>List of Achievements</p>	<p>Submit an A4 size sheet including the following information (use the prescribed form)</p> <p>(a) 400 Research overview (in about 400 Japanese characters)</p> <p>(b) Authored book(s) (specify the title, authored pages, publisher, month and year of publication)</p> <p>(c) Article(s), etc. (specify the title, name of journal/magazine, volume/issue/page, month and year of publication, and attach a separate print of each article [photocopy is acceptable])</p> <p>(d) Presentation(s) in an academic conference, etc. (specify the title, conference name, venue, month and year of presentation)</p> <p><b>Notes The fields of health sciences only</b></p> <p><b>Please contact your prospective academic supervisor and ask him/her to review the List of Achievements before application</b></p> <p><b>The applicant must have work experience as a member of society and at least one paper as the first author. However, reports and workplace bulletins are excluded.</b></p>

**The CEFR Comparison Table**



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**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)	over 400	over 400
	Program of Health Sciences (the fields of oral health sciences)	over 400	over 400
	Program of Medicinal Sciences	over 500	over 500

Program of Biomedical Science

Applicants with disabilities, who require special considerations for taking the examination or studying, must submit the report for advance consultation (A4, no prescribed form), to the address for submission (S Application Procedure (5) Postal Address for Submissions.

, , , Report must be submitted by **Friday, December 1, 2023**

Report must contain the following information:

Name, address, and telephone number

Name of applic

Name of a prospective academic supervisor

Considerations necessary for taking the examination

Considerations necessary for studying after admission

Considerations given to the applicants at the graduating university or college

Current situation of daily life

### Student Selection Method (Academic Examinations)

Admission Selections	Program of Medicinal Sciences    Program of Biomedical Science	Oral examination (the field of study the applicants apply for)
	Written examinations  Specialized subject (the field of study the applicants apply for)	
General Selection		
Special Selection for Students with Careers		
Special Selection for Senior Citizens		
Special Selection for International Students		
All Admission Selections <b>Those living outside Japan only</b>		Online interview (including the content of the written examinations)

Note:

have the academic examinations as same as for General Selection.

### Program of Health Sciences

Admission Selections	Written examinations		Oral examination the field of study the applicants apply for
	Specialized subject the field of study the applicants apply for	Short essay	
General Selection			
Special Selection for Students with Careers			
Special Selection for Senior Citizens			
Special Selection for International Students			
All Admission Selections <b>Those living outside Japan only</b>			Online interview (including the content of the written examinations)

Note:

School of Hiroshima University are required to have the academic examinations as same as for General Selection.

### Examination Date and Location

Programs	Date	Hours	Subjects		Venue
Program of Medicinal Sciences	2 6 Tuesday, February 6	11:00 12:30	Written examinations	Specialized subject	2 3 Graduate School of Biomedical and Health Sciences, Hiroshima University 1-2-3, Kasumi, Minami-Ku, Hiroshima, Japan
Program of Biomedical Science					

### Standard Criteria for Marking, Evaluation, and Acceptance

Programs	Standard Criteria for Marking, Evaluation, and Acceptance
Program of Health Sciences	<p>The results are comprehensively determined on the basis of the results of examinations, and academic transcript.</p> <p>60</p> <p>The applicants shall be rejected with the lower score than 60% of the average of examinees in the relevant subject for each written examination.</p> <p>A B 2 B</p>
Program of Medicinal Sciences	<p>Applicants are evaluated on a two-point scale A and B for the oral examination, and shall be rejected with the score B irrespective of the written examination score.</p> <p>[Evaluation of two-point scale]</p> <p>A: Those who are recognized as being appropriate to be enrolled</p> <p>B: Those who are recognized as being not appropriate to be enrolled</p>
Program of Biomedical Science	<p><b>/ Program of Health SciencesThe fields of health sciences only</b></p> <p>List of Achievements shall be taken into consideration for the Special Selection for Students with Careers in addition to the above.</p>

### Special Provision on Educational Method

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## Announcement of Successful Applicants

Scheduled at 10:00 AM on Monday, February 26, 2024

Successful examinee numbers will be posted on the Hiroshima University website, and successful applicants will also receive a notice by postal mail.

No inquiry about the examination results is accepted by phone or any other contact methods.

### Notes

(1)

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

(2)

(3)

~~Applicants must consult with a prospective academic supervisor before application.~~

(4)

#### 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 graduation. tional system until

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

( ) 1,000

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.

(5)

Applicants who will maintain their job during attenda

(6)

Details including precautions for examinations will be sent together with an examination ticket.

(7)

Long-Term Completion of Curricula System

The Graduate School provides a system, which facilitates them to take courses according to a plan and complete the program over a certain period that is longer than a standard term, to support applicants who enroll in the program while in employment (regular employment) or engagement with housework, child rearing, or nursing at home, as well as applicants who enroll in the program from Senior Citizens Selection. Under this system, the total tuition of the standard term is divided by the number of years admitted to complete the program according to a plan and paid in installments. For more details, such as maximum terms accepted for the Long-Term Completion of Curricula, please inquire the student support group.

**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 correspondance).

**Others**

(1) Privacy Policy

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

ips, 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.

(2) Smoke-free campus

2020 1

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## 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.

### Program of Health Sciences 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 2 3 4	Study on promotion of oral health including perioperative oral care Study on oral function in the elderly Study on new prevention for oral diseases 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 2 3 4	Epidemiological studies regarding associations between oral health and general health Molecular epidemiology and gene-environmental interaction Research for dysphagia patients and their caregivers 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 2 3 4	Dental hygienists education Research about dental hygienists occupation Career formation of students Infection control in dentistry	
KAKU Masato TEL 082-257-5442 FAX 082-257-5797 E-mail mkaku@hiroshima-u.ac.jp  Department of Anatomy and Functional Restorations	1 2 3	The effect of mechanical stress on bone remodeling Study on tongue-palatal contact using an electropalatography during articulation The effect of hyperbaric oxygen on bone remodeling	

<p>MURAYAMA Takeshi</p> <p>TEL 082-257-5428</p> <p>FAX 082-257-5797</p> <p>E-mail murayatk@hiroshima-u.ac.jp</p> <p>Department of Medical system Engineering</p> <p>2026 3</p> <p>Retirement at the end of March 2026</p>	<p>1 3D 3D</p> <p>Application of artificial intelligence and 3-d technologies(e.g., 3-d printing) to dentistry and medicine</p> <p>2 Simulation-based analysis of work processes in dental technology</p> <p>3 Presymptomatic diagnosis for ARONJ</p> <p>4 Translational research</p>
<p>NIKAWA Hiroki</p> <p>TEL 082-257-5097</p> <p>FAX 082-257-5097</p> <p>E-mail hirocky@hiroshima-u.ac.jp</p> <p>Department of Oral Biology &amp; Engineering</p>	<p>1 Application of probiotics to oral cavity</p> <p>2 Denture plaque and denture cleansers</p> <p>3 Bone metabolisms, incl. osteoclasts and osteoblasts</p> <p>4 Design and application of antimicrobial peptides</p> <p>5 Denture and cognitive function</p> <p>6 Masticatory function and systemic function</p>

Program of Health Sciences  
the fields of health sciences

Professor	Contents of education and research
<p>SHIMPUKU Yoko</p> <p>TEL 082-257-5345</p> <p>FAX 082-257-5349</p> <p>E-mail yokoshim@hiroshima-u.ac.jp</p> <p>Department of Global Health Nursing</p>	<p>1 Evaluation of midwifery education to improve maternal child health in Africa</p> <p>2 Medical local knowledge to promote health in collaboration with Anthropology</p> <p>3 Educational support to prevent teenage pregnancy and gender inequality</p> <p>4 People-Centered Care Development of measurement tools and educational materials of People-Centered Care</p> <p>5 Evaluation of a parenting support program based on development science</p>
<p>To be decided</p> <p>Department of Health Informatics</p>	
<p>ORIYAMA Sanae</p> <p>TEL 082-257-5355</p> <p>FAX 082-257-5355</p> <p>E-mail oriyaama@hiroshima-u.ac.jp</p> <p>Department of Fundamental Nursing</p>	<p>1 Research for labor management system of nurse</p> <p>2 Research on fundamental nursing technique</p> <p>3 Research for nursing practice and continuing education</p> <p>4 Research for stress management of nurse</p>

To be decided

<p>KAWASAKI Hiromi</p> <p>TEL 082-257-5395</p> <p>FAX 082-257-5399</p> <p>E-mail khiromi@hiroshima-u.ac.jp</p> <p>Department of School and Public Health Nursing 2026 3</p> <p>Retirement at the end of March 2026</p>	<p>1 Research on health promotion in community and school</p> <p>2 Research on method and evaluation of health education and health guidance</p> <p>3 Research on support to children and families</p> <p>4 Research on health issue and city planning in community</p>
<p>To be decided</p> <p>Department of Gerontological and Oncology Nursing</p>	
<p>URABE Yukio</p> <p>TEL 082-257-5405</p> <p>FAX 082-257-5405</p> <p>E-mail yurabe@hiroshima-u.ac.jp</p> <p>Department of Sports Rehabilitation 2025 3</p> <p>Retirement at the end of March 2025</p> <p>MAEDA Noriaki</p> <p>Associate professor</p> <p>E-mail norimmi@hiroshima-u.ac.jp</p>	<p>1 Research for sports injury and rehabilitation</p> <p>2 outcome</p> <p>3 Research about muscle strength, joint mobility, proprioceptive function, analysis for human functional movement, and its outcome measurement</p> <p>4 Research and support for disabled sports to Olympic/ Paralympic game for Tokyo 2020</p> <p>5 ACL</p> <p>6 Sports injury prevention Knee joint, Ankle joint, Shoulder joint, and low back pain</p> <p>7 Physical fitness for adolescent and elderly peoples</p> <p>8 Social recovery research after disaster</p> <p>9 New development for welfare equipment and patent</p>
<p>To be decided</p> <p>Department of Anatomy and Histology</p>	
<p>TAKAHASHI Makoto</p> <p>TEL 082-257-5415</p> <p>FAX 082-257-5344</p> <p>E-mail mako2@hiroshima-u.ac.jp</p> <p>Department of Biomechanics</p>	<p>1 Biomechanics of human movements</p> <p>2 Neural control of human gait and posture</p> <p>3 Mechanisms of fall and fall prevention strategies in elderly and/or physically-disabled persons</p>

<p>HAMADA Hironobu</p> <p>TEL 082-257-5420</p> <p>FAX 082-257-5344</p> <p>E-mail hirohamada@hiroshima-u.ac.jp</p> <p>Department of Physical Analysis and Therapeutic Sciences</p>	<p>1 Study of pulmonary rehabilitation</p> <p>2 Study of rehabilitation for internal diseases</p> <p>3 Study of exercise for health promotion</p>
<p>FUJITA Naoto</p> <p>TEL 082-257-5423</p> <p>FAX 082-257-5423</p> <p>E-mail fujitan@hiroshima-u.ac.jp</p> <p>Department of Bio-Environmental Adaptation Sciences</p>	<p>1 Influence of childhood exercise and detraining in adulthood</p> <p>2 Complementary and alternative therapy for exercise training</p> <p>3 How does dislike for physical activity contribute to childhood obesity?</p>
<p>URAKAWA Susumu</p> <p>TEL 082-257-5430</p> <p>FAX 082-257-5430</p> <p>E-mail urakawas@hiroshima-u.ac.jp</p> <p>Department of Musculoskeletal Functional research and regeneration</p>	<p>1 Brain activity during the rehabilitative motor-task</p> <p>2 How the physiotherapy improve the musculoskeletal functions including the muscular pain</p> <p>3 The effects of enriched environment on brain plasticity</p> <p>4 Development of the rehabilitation therapy for skeletal muscle mitochondrial dysfunction with heart failure and diabetes</p>
<p>To be decided</p> <p>Department of Integrative Physiology</p>	
<p>MIYAGUCHI Hideki</p> <p>TEL 082-257-5440</p> <p>FAX 082-257-5444</p> <p>E-mail hmiya@hiroshima-u.ac.jp</p> <p>Department of Human Behavior Science of Occupational Therapy</p>	<p>1 Evidence Based Occupational Therapy</p> <p>2 Risk perception and Risk communication</p> <p>3 Occupational Therapy for the pediatrics</p> <p>4 Neuro behavior rehabilitation</p>
<p>KIRIMOTO Hikari</p> <p>TEL 082-257-5445</p> <p>FAX 082-257-5445</p> <p>E-mail hkimimoto@hiroshima-u.ac.jp</p> <p>Department of Sensorimotor Neuroscience</p>	<p>1 Non-invasive brain stimulation to facilitate the treatment of various neurological disorders</p> <p>2 Neural basis of precise hand movement</p>

<p>OKAMURA Hitoshi  TEL 082-257-5450  FAX 082-257-5454  E-mail hokamura@hiroshima-u.ac.jp</p> <p>Department of Psychosocial Rehabilitation</p>	<p>1 Cancer rehabilitation  2 Rehabilitation for older adults with or without dementia  3 Rehabilitation for patients with mental disability</p>
<p>SUNAGAWA Toru  TEL 082-257-5455  FAX 082-257-5455  E-mail torusuna@hiroshima-u.ac.jp</p> <p>Department of Analysis and Control of  Upper Extremity Function  2026 3  Retirement at the end of March 2026</p>	<p>1 Analysis of the relationship between hand and brain for the hand rehabilitation  2 Three-dimensional motion analysis of the hand  3 Analysis of muscle synergy for upper extremity function</p>
<p>HANAOKA Hideaki  TEL 082-257-5400  FAX 082-257-5400  E-mail hhanaoka@hiroshima-u.ac.jp</p> <p>Department of Gerontological and  Community-Based Occupational Therapy</p>	<p>1 Research of care prevention for community-dwelling elderly people  2 Research of frail elderly people  3 QOL Research of elderly people with dementia</p>
<p>MATANI Ayumu  TEL 082-257-1722  FAX 082-257-1723  E-mail matani@hiroshima-u.ac.jp</p> <p>Department of Brain Function Imaging</p>	<p>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</p>



## Program of Medicinal Sciences

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

<p>TAHARA Hidetoshi</p> <p>TEL 082-257-5290</p> <p>FAX 082-257-5294</p> <p>E-mail toshi@hiroshima-u.ac.jp</p> <p>Department of Cellular and Molecular Biology</p>	<p>1 Molecular mechanism of cellular senescence and cancer</p> <p>2 G-tail Development of anti-cancer drug targeting telomere G-tail</p> <p>3 G-tail Risk assessment of age-related disease using telomere G-tail</p> <p>4 Cellular immortalization using telomerase</p> <p>5 RNA Biomarker using circulating microRNA</p> <p>6 RNA Nucleic acid biomedicine for cancer treatments</p> <p>7 RNA Molecular mechanism of microRNA regulation in aging and cancer</p> <p>8 Extracellular vesicles including exosome in aging and cancer</p>
<p>KAMIYA Hiroyuki</p> <p>TEL 082-257-5300</p> <p>FAX 082-257-5334</p> <p>E-mail hirokam@hiroshima-u.ac.jp</p> <p>Department of Nucleic Acids Biochemistry</p>	<p>1 DNA Mutagenesis by DNA damage</p> <p>2 DNA DNA Functions of DNA repair</p> <p>3 Gene correction (genome editing) for gene therapy</p> <p>4 iPS Mutations and genome stability in iPS cells</p>
<p>OZAWA Koichiro</p> <p>TEL 082-257-5332</p> <p>FAX 082-257-5332</p> <p>E-mail ozawak@hiroshima-u.ac.jp</p> <p>Department of Pharmacotherapy</p> <p>2025 3</p> <p>Retirement at the end of March 2025</p> <p>YANASE Yuhki</p> <p>Associate professor</p> <p>E-mail yyanase@hiroshima-u.ac.jp</p>	<p>1 Clinical pharmaceutical researches that support the proper use of pharmaceutical products</p> <p>2</p>

<p>KURODA Teruo</p> <p>TEL 082-257-5655</p> <p>FAX 082-257-5655</p> <p>E-mail tkuroda@hiroshima-u.ac.jp</p> <p>Department of Microbiology</p>	<p>1 Screening of seed compounds which has antimicrobial activity and Identification of its action target</p> <p>2 Study of antiseptic resistance mechanism</p> <p>3 Study of emergence of multidrug resistant bacteria</p> <p>4 Study of tolerance for Na<sup>+</sup> in marine bacteria</p> <p>5</p> <p>6 Structural study of microbial useful enzymes for the industrial application and target proteins for the drug development</p> <p>Functional analysis of antibiotic biosynthetic genes from actinomycetes and its application for the production of useful compounds</p>
<p>MATSUNAMI Katsuyoshi</p> <p>TEL 082-257-8553</p> <p>FAX 082-257-8553</p> <p>E-mail matunami@hiroshima-u.ac.jp</p> <p>Department of Pharmacognosy</p>	<p>1 Phytochemical study of anti-Leishmania compounds</p> <p>2 Natural products chemistry of marine organisms</p> <p>3 Analysis of chemical structure by spectroscopic techniques</p>
<p>To be decided</p> <p>Department of Functional Molecular Science</p>	
<p>KUMAMOTO Takuya</p> <p>TEL 082-257-5184</p> <p>FAX 082-257-5184</p> <p>E-mail tkum632@hiroshima-u.ac.jp</p> <p>Department of Synthetic Organic Chemistry</p>	<p>1 Synthetic study toward biologically active natural products with complex structures</p> <p>2 Design, synthesis and biological evaluation of probe compounds for the development of medicinal chemistry</p>
<p>MORIOKA Norimitsu</p> <p>TEL 082-257-5310</p> <p>FAX 082-257-5314</p> <p>E-mail mnori@hiroshima-u.ac.jp</p> <p>Department of Pharmacology</p>	<p>1 The mechanisms of induction and maintenance of chronic pain</p> <p>2 The mechanisms of induction of mood disorders</p> <p>3</p>

<p>UCHIDA Yasuo</p> <p>TEL 082-257-5315</p> <p>E-mail yuchida@hiroshima-u.ac.jp</p> <p>Department of Pharmaceutics and Therapeutics</p>	<p>1 The study using human brain tissue to clarify molecular mechanisms of brain disorders</p> <p>2 Drug transport study for human central nervous system (CNS) barrier and drug delivery to the brain</p> <p>3 Elucidation of pathological molecular mechanisms of CNS barrier using next generation quantitative proteomics</p> <p>4 Development of novel proteomics techniques and big data analysis</p> <p>5 Disease biomarker study using highly sensitive and precise quantitative proteomics</p>
<p>MATSUO Hiroaki</p> <p>TEL 082-257-5570</p> <p>FAX 082-257-5598</p> <p>E-mail hmatsu@hiroshima-u.ac.jp</p> <p>Department of Pharmaceutical Services</p>	<p>1 Clinical pharmacokinetics and administration planning of drugs</p> <p>2 Drug interactions</p> <p>3 Drug informatics for proper use of pharmaceutical products</p> <p>4 Drug allergy</p> <p>5 Influence of drug intake on development of food allergy</p>
<p>SUGIYAMA Masanori</p> <p>TEL 082-257-5280</p> <p>FAX 082-257-5284</p> <p>E-mail sugi@hiroshima-u.ac.jp</p> <p>Department of Probiotic Science for Preventive Medicine</p>	<p>1 Prevention and improvement of fatty liver by plant-derived lactic acid bacteria</p> <p>2 Prevention and improvement of the neuro-degenerative diseases by plant-derived lactic acid bacteria</p> <p>3 Development of the next-generation therapeutic drug to infectious disease using probiotics</p> <p>4 Meta genome analysis of the entero-bacterial flora and application to digestive organ diseases</p>

### Program of Biomedical Science

Professor	Contents of education and research
<p>IKEGAMI Koji</p> <p>TEL 082-257-5110</p> <p>FAX 082-257-5114</p> <p>E-mail k-ikegami@hiroshima-u.ac.jp</p> <p>Department of Anatomy and Developmental Biology</p>	<p>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.</p>

<p>AIZAWA Hidenori  TEL 082-257-5115  E-mail haizawa@hiroshima-u.ac.jp  Department of Neurobiology</p>	<p>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.</p>
<p>FUJIWARA Yuichiro  TEL 082-257-5120  E-mail fujiwara-yuichiro@hiroshima-u.ac.jp  Department of Physiology and Biophysics</p>	<ol style="list-style-type: none"> <li>1 Structure-function relationship of ion channels, receptors and transporters</li> <li>2 Elucidation of the principle of operation of biomolecular sensors</li> <li>3 Analysis of membrane protein-molecule interactions</li> <li>4 Measurement by lipid bilayer reconstruction system and creation of artificial membrane proteins</li> <li>5 Pathophysiology of channelopathy (including receptor and transporter diseases)</li> </ol>
<p>HASHIMOTO Kouichi  TEL 082-257-5125  E-mail hashik@hiroshima-u.ac.jp  Department of Neurophysiology</p>	<p>Analysis of mechanisms for the synaptic transmission and postnatal development of neuronal circuits</p>
<p>IMAIZUMI Kazunori  TEL 082-257-5130  FAX 082-257-5134  E-mail imaizumi@hiroshima-u.ac.jp  Department of Biochemistry  2025 3  Retirement at the end of March 2025</p> <p>SAITO Atsushi  Associate professor  E-mail saitoa@hiroshima-u.ac.jp</p> <p>KANEMITO Soshi  Associate professor  E-mail soshikanemoto@hiroshima-u.ac.jp</p>	<p>Our purpose is to determine molecular mechanisms of cellular impairment generated from dysfunction of endoplasmic reticulum and its pathogenic mechanisms in nervous, blood-vascular, and skeletal systems.</p>
<p>To be decided  Department of Biomedical Chemistry</p>	

<p>SAKAI Norio</p> <p>TEL 082-257-5140</p> <p>FAX 082-257-5144</p> <p>E-mail nsakai@hiroshima-u.ac.jp</p> <p>Department of Molecular and pharmacological neuroscience</p> <p>2026 3</p> <p>Retirement at the end of March 2026</p>	<p>We analyze the pathophysiology of incurable disease, including stroke, neurodegenerative disease and psychiatric disease and search the novel therapeutic drug for curing them.</p>
<p>To be decided</p> <p>Department of Molecular Pathology</p>	
<p>TAKESHIMA Yukio</p> <p>TEL 082-257-5150</p> <p>FAX 082-257-5154</p> <p>E-mail ykotake@hiroshima-u.ac.jp</p> <p>Department of Pathology</p>	<p>Exploring biological natures of human cancers, especially lung cancer and malignant mesothelioma for accurate pathological diagnosis and adequate therapy</p>
<p>SAKAGUCHI Takemasa</p> <p>TEL 082-257-5157</p> <p>FAX 082-257-5159</p> <p>E-mail tsaka@hiroshima-u.ac.jp</p> <p>Department of Virology</p> <p>2026 3</p> <p>Retirement at the end of March 2026</p> <p>Takashi</p> <p>Associate professor</p> <p>E-mail tirie@hiroshima-u.ac.jp</p>	<p>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.</p>
<p>To be decided</p> <p>Department of Epidemiology, Infectious Disease Control and Prevention</p>	

<p>KUBO Tatsuhiko</p> <p>TEL 082-257-5165</p> <p>FAX 082-257-5169</p> <p>E-mail tkubo@hiroshima-u.ac.jp</p> <p>Department of Public Health and Health Policy</p>	<p>1 Disaster Public health, social systems including health policy and health administration to protect health during emergencies and disasters</p> <p>2 Occupational Health, epidemiological study of shift work and other occupational exposures</p> <p>3 Emergency Medical Team (EMT), Daily reporting by the EMT such as the WHO EMT Minimum Data Set</p>
<p>NAGAO Masataka</p> <p>TEL 082-257-5170</p> <p>FAX 082-257-5174</p> <p>E-mail nagao@hiroshima-u.ac.jp</p> <p>Department of Forensic Medicine</p> <p>2026 3</p> <p>Retirement at the end of March 2026</p>	<p>Analysis noncholinergic mechanism of new organic phosphorus compounds</p>
<p>NAMERA Akira</p> <p>TEL 082-257-5172</p> <p>FAX 082-257-5172</p> <p>E-mail namera@hiroshima-u.ac.jp</p> <p>Department of Forensic Medicine</p>	<p>1 / Development of new analytical methods and procedures by using a mass spectrometry</p> <p>2 / Estimation of intaken drugs by a drug metabolite profiling</p> <p>3 / Development of new quick laboratory procedures to medical toxicant</p> <p>4 / Analysis of drug ingestion history</p> <p>5 / Identifying of ingredients of poisonous plants</p>
<p>YASUDA Tomoharu</p> <p>TEL 082-257-5175</p> <p>FAX 082-257-5179</p> <p>E-mail yasudat@hiroshima-u.ac.jp</p> <p>Department of Immunology</p>	<p>1 The antigen receptor and mediated signals in the immune system</p> <p>2 The regulation of immune cell division limit and hematological malignancy</p> <p>3 The regulation of immune cell lifespan</p> <p>4 The immune surveillance to viral infection and cancer</p> <p>5 The allergic diseases and immune tolerance</p> <p>6 The gene therapy of primary immunodeficiency</p>
<p>To be decided</p> <p>Department of Calcified Tissue Biology</p>	
<p>TERAYAMA Ryuji</p> <p>TEL 082-257-5623</p> <p>FAX 082-257-5689</p> <p>E-mail ryujit@hiroshima-u.ac.jp</p> <p>Department of Maxillofacial Anatomy and Neuroscience</p>	<p>Molecular biological and behavioral studies for understanding nociceptive transmission and mechanisms underlying the development of abnormal pain sensations</p>

<p>SUGITA Makoto</p> <p>TEL 082-257-5626</p> <p>FAX 082-257-5627</p> <p>E-mail sugisan@hiroshima-u.ac.jp</p> <p>Department of Physiology and Oral Physiology</p>	<ol style="list-style-type: none"> <li>1 To study the cellular mechanisms underlying taste perception and taste-evoked emotional responses</li> <li>2 To investigate the molecular mechanisms underlying ion and fluid transport in the salivary glands</li> </ol>
<p>SHUKUNAMI Chisa</p> <p>TEL 082-257-5628</p> <p>FAX 082-257-5629</p> <p>E-mail shukunam@hiroshima-u.ac.jp</p> <p>Department of Molecular Biology and Biochemistry</p>	<p>We are aiming at the elucidation of the molecular and cellular mechanisms underlying the formation and regeneration of cartilage, bone, teeth, tendon, and ligament.</p>
<p>Department of Oral and Maxillofacial Pathobiology</p>	
<p>KOMATSUZAWA Hitoshi</p> <p>TEL 082-257-5635</p> <p>FAX 082-257-5639</p> <p>E-mail komatsuz@hiroshima-u.ac.jp</p> <p>Department of Bacteriology</p>	<ol style="list-style-type: none"> <li>1 Factors for virulence and antibiotic resistance in <i>Staphylococcus aureus</i></li> <li>2 Mechanism of <i>S. aureus</i> and oral streptococci infection to the host</li> <li>3 Analysis of oral microbiome</li> <li>4 Factors for virulence and antibiotic resistance in periodontal bacteria</li> <li>5 MDRP MRSA ESBL</li> <li>6 Molecular epidemiology of nosocomial antimicrobial resistant pathogens (MDRP, MRSA, ESBL producers)</li> </ol> <p>Study on new antibacterial agents</p>
<p>AGO Yukio</p> <p>TEL 082-257-5640</p> <p>FAX 082-257-5640</p> <p>E-mail yukioago@hiroshima-u.ac.jp</p> <p>Department of Cellular and Molecular Pharmacology</p>	<ol style="list-style-type: none"> <li>1 Studies on the mechanisms of action of the drugs in depression, schizophrenia, anxiety, and neurodegenerative diseases</li> <li>2 Studies on the roles of gene-environment interactions in brain development</li> <li>3 Studies on the roles of cell migration, adhesion, and proliferation in biological and pathological processes</li> </ol>
<p>KATO Koichi</p> <p>TEL 082-257-5645</p> <p>FAX 082-257-5649</p> <p>E-mail kokato@hiroshima-u.ac.jp</p> <p>Department of Biomaterials</p>	<ol style="list-style-type: none"> <li>1 Technologies for manufacturing stem cells to be used in clinical regenerative dentistry and medicine</li> <li>2 Design principles that enable duplication of histologically-ordered tissue structure found in living organisms</li> </ol>



<p>TAKAHASHI Ichiro  TEL 082-257-5650  FAX 082-257-5650  E-mail snatum@hiroshima-u.ac.jp</p> <p>Department of Mucosal Immunology  2025 3  Retirement at the end of March 2025</p> <p>TOBIUME Kei  Associate professor  E-mail tobi5651@hiroshima-u.ac.jp</p>	<p>Molecular and cellular analysis for the creation and maintenance of physiological inflammation in the mucosa-associated peripheral tissues</p>
<p>FUJII Makiko  TEL 082-257-1503  FAX 082-257-1572  E-mail fujiim@hiroshima-u.ac.jp</p> <p>Department of Genomic Oncology and Oral  Medicine</p>	<p>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</p>
<p>YOSHINAGA Shinji  TEL 082-257-5852  FAX 082-256-7106  E-mail syoshinaga@hiroshima-u.ac.jp</p> <p>Department of Environmetrics and Biometrics</p>	<p>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</p>
<p>YASUDA Hiroshi  TEL 082-257-5872  FAX 082-257-5873  E-mail hyasuda@hiroshima-u.ac.jp</p> <p>Department of Radiation Biophysics</p>	<p>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.</p>

<p>KAWAKAMI Hideshi  TEL 082-257-5846  FAX 082-257-5850  E-mail hkawakam@hiroshima-u.ac.jp</p> <p>Department of Molecular Epidemiology  2025 3  Retirement at the end of March 2025</p> <p>KUME Kodai  Associate professor  E-mail kumek@hiroshima-u.ac.jp</p>	<p>To uncover causative genes in neurological disease</p>
<p>WATANABE Tomonobu  TEL 082-257-5938  E-mail twatanabe@hiroshima-u.ac.jp</p> <p>Department of Stem Cell Biology</p>	<p>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.</p>
<p>TASHIRO Satoshi  TEL 082-257-5817  FAX 082-256-7104  E-mail ktashiro@hiroshima-u.ac.jp</p> <p>Department of Cellular Biology</p>	<p>Study of the dynamic organization of DNA repair system in human cells by using the newly developed bioimaging analysis methods</p>
<p>KAMINUMA Osamu  TEL 082-257-5819  FAX 082-257-1556  E-mail okami@hiroshima-u.ac.jp</p> <p>Department of Disease Model</p>	<p>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.</p>

<p>MATSUURA Shinya</p> <p>TEL 082-257-5809</p> <p>FAX 082-256-7101</p> <p>E-mail shinya@hiroshima-u.ac.jp</p> <p>Department of Genetics and Cell Biology</p> <p>2026 3</p> <p>Retirement at the end of March 2026</p> <p>ASANO Takaki</p> <p>Associate professor</p> <p>E-mail tasano02@hiroshima-u.ac.jp</p>	<p>DNA</p> <p>Our research aim is to elucidate the molecular mechanisms of genome stability and maintenance.</p>
<p>Department of Molecular Oncology</p>	

HIROHASHI Nobuyuki

TEL 082-257-5839

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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

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

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<p>SOTOMARU Yusuke</p> <p>TEL 082-257-5106</p> <p>FAX 082-257-5109</p> <p>E-mail sotomaru@hiroshima-u.ac.jp</p> <p>Department of Natural Science Center for Basic Research and Development</p>	<p>in vitro in vivo</p> <p>Cell (in vitro) and animal (in vivo) experiments for analyzing the life science phenomenon such as development, differentiation, aging and cancer</p> <p>1 Molecular biology for childhood solid tumors</p> <p>2 Molecular biology for adult Cancers</p> <p>3 Cell Immortality and carcinogenesis</p> <p>4</p>

<p>SUGIYAMA Daisuk  TEL 082-257-1949  FAX 082-257-1993  E-mail cedarmt@hiroshima-u.ac.jp</p> <p>Department of Translational Research</p>	<div> <div>1</div> <div>2</div> <div>3</div> <div>4</div> <div>5</div> <div>6</div> <div>7</div> <div>8</div> <div>9</div> <div>10</div> <div>11</div> <div>12</div> <div>13</div> </div> <div> Drug target Identification using animal models and human cells  mode of action      Analysis of mode of action using animal models and human cells  Pre-clinical proof of concept and translational research for commercialization  Production of medical device prototype and verification of safety and effectiveness    Translational research to formulate and verify hypotheses based on trend surveys of seeds demands for clinical practice and practical application from basic research    Translational research to formulate and verify hypotheses based on trend surveys of needs required for clinical practice and practical use    Translational research to formulate and verify hypotheses based on development trend surveys in clinical and regulatory settings    Translational research to formulate and verify hypotheses based on a trend survey of industry-academia-government collaboration for medical development  International comparative research in translational research area    Non-clinical studies and translational research for pharmaceutical development on tissue adhesion and fibrous by extracellular matrix.    Research related to health care policy to aim for pharmaceuticals through translational research that bridges research seeds.    Statistical methods in clinical research    Research on preventive medicine using health examination data </div>
<p>MARUYAMA Fumito  TEL 082-424-7048  E-mail fumito@hiroshima-u.ac.jp</p> <p>Department of Microbial Genomics and Ecology</p>	<div> <div>i)</div> <div>ii)</div> <div>iii)</div> <div>iv)</div> <div>v)</div> </div> <div> : </div> <div> <a href="https://mge.hiroshima-u.ac.jp">https://mge.hiroshima-u.ac.jp</a> </div> <div> <p>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.</p> <p>For more information see below:  <a href="https://mge.hiroshima-u.ac.jp/en/">https://mge.hiroshima-u.ac.jp/en/</a> </p> </div>