

## **2024/2025 Academic Years**

## Admissions Policy <Doctoral Course>

The Graduate School of Integrated Sciences for Life, based on its Diploma Policy and Curriculum Policy, expects to admit doctoral students as described below.

Students who:

1. Have strong volition to do research, and who wish to create new science that integrates and links different fields without being constrained by conventional frameworks of research fields in the areas of study related to biology and life science;
2. Wish to develop deep expertise and a broad and interdisciplinary perspective along with a broad general education, to acquire international communication skills, and to play an active role both in the domestic and international arenas as a member or leader of an interdisciplinary and field integration-type problem-solving team; and
3. Wish to belong to several research environments both in Japan and overseas, and to create “science that can guide sustainable development” after acquiring their original problem-searching and problem-solving abilities supported by related expertise and interdisciplinary perspective as well as practical capabilities in society by gaining experiences in the real world.

In order to admit such individuals, this program selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using interviews, etc.

## Type of Students We Seek

### [Program of Biotechnology]

Based on its Diploma Policy and Curriculum Policy, this program expects to admit students as described below.

Students who:

1. Have deep knowledge in their specialized fields, and who have an ambition to also acquire knowledge in fields other than their specialized fields, and to develop interdisciplinary research;
2. Are motivated to take up a challenge for a new scientific and technological field to which different fields, such as material science, are integrated based on frontier life sciences;
3. Have a logical thinking ability and communication skills to describe their cutting-edge research in easy-to-understand words so that it is understood by society;
4. Have acquired abilities at the level of completing a graduate school’s Master’s Program or higher regarding their command of English; and
5. Have acquired common sense as a working member of society, and ethical standards as a researcher or a highly specialized engineer.

In order to admit such individuals, this program selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using interviews, etc.

### [Program of Food and AgriLife Science]

Based on its Diploma Policy and Curriculum Policy, this program expects to admit students as described below.

Students who:

1. Have a high level of interest in advanced theories and methods, as well as research and application deployment abilities to understand and utilize biological functions from the perspective of molecules and cells;
2. Have a high interest in finding and solving problems from a scientific, social, and international perspective regarding creatures’ diverse functions and the advanced use of food resources;
3. Have acquired abilities at the level of completing a graduate school’s Master’s Program or higher regarding their command of English;
4. Have acquired abilities at the level of completing a graduate school’s Master’s Program or higher regarding knowledge, attitude, and skills in the specialized fields of their choice; and
5. Have acquired common sense as a working e i reg e hiz cd f aed

## **[Program of Bioresource Science]**

Based on its Diploma Policy and Curriculum Policy, this program expects to admit students as described below.

Students who:

1. Have systematically understood life phenomena related to the production and use of biological resources from the molecular level to ecosystems;
2. Have acquired broad expertise and research skills regarding the sustainable production and utilization of biological resources in both land and water zones, and who are equipped with abilities to understand and solve various problems in related fields from regional to international scope;
3. Have acquired abilities at the level of completing a graduate school's Master's Program or higher regarding their command of English;
4. Have acquired abilities at the level of completing a graduate school's Master's Program or higher regarding knowledge, attitude, and skills in the specialized fields of their choice; and
5. Have acquired common sense as a working member of society, and ethical standards as a researcher or a highly specialized engineer.

In order to admit such individuals, this program selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using interviews, etc.

## **[Program of Life and Environmental Sciences]**

Based on its Diploma Policy and Curriculum Policy, this program expects to admit students as described below.

Students who:

1. Have a broad interest in the life science fields from the molecular level to whole environments and ecosystems, and who wish to acquire basic research abilities, expertise and skills for a specific field, and learn the theories and methods of understanding and utilizing these abilities from a comprehensive perspective;
2. Wish to understand various problems existing in life science and environmental science, and to solve them professionally, immediately, and internationally;
3. Wish to play an active role independently as a generalist who also covers areas outside life science and environmental science without being constrained by their own expertise;
4. Have acquired abilities at the level of completing a graduate school's Master's Program or higher regarding their command of English;
5. Have acquired abilities at the level of completing a graduate school's Master's Program or higher regarding knowledge, attitude, and skills in the specialized fields of their choice; and
- 6.

## **[Program of Mathematical and Life Sciences]**

Based on its Diploma Policy and Curriculum Policy, this program expects to admit students as described below.

Students who:

1. Are equipped with basic academic and application abilities in the fields of mathematics, physics, chemistry, and biology;
2. Have an ambition to open up a new research field in mathematical science, molecular science, and life science fields as well as integrated fields;
3. Have acquired abilities at the level of completing a graduate school's Master's Program or higher regarding their command of English; and
4. Have acquired common sense as a working member of society, and ethical standards as a researcher or a highly specialized engineer.

In order to admit such individuals, this program selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using interviews, etc.

## **[Program of Biomedical Science]**

Based on its Diploma Policy and Curriculum Policy, this program expects to admit students as described below.

Students who:

1. Have an interest in medical and scientific knowledge that can support people's health and longevity, and who aspire to contributing to the development of life science, medical science, and related industrial fields;
2. Can view health and pathologic conditions multilaterally from a basic biological perspective
3. Have acquired abilities at the level of completing a graduate school's Master's Program or higher regarding their command of English; and
4. Have acquired common sense as a working member of society, and ethical standards as a researcher or a highly specialized engineer.

In order to admit such individuals, this program selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using interviews, etc.

# CONTENTS

Admissions Policy.....	1
1. Number of Students to Be Recruited and Venue for Examinations, etc.....	5
2. Applicant Eligibility .....	6
3. Application Procedures .....	6
4. Examination Date and Time.....	9
5. Screening Methods .....	9
6. Announcement of Successful Applicants.....	9
7. Enrollment Fee and Tuition .....	10
8. Payment of Examination Fee and Enrollment Fee .....	10
9. Hiroshima University Excellent Student Scholarships .....	10
10. Personal Information.....	10
11. Examination Information Disclosure.....	10
12. Frontier Development Program for Genome Editing.....	11
13. Additional Notices.....	12
14. Other Points of Attention .....	12

## **[List of Academic Supervisors]**

Program of Biotechnology.....	13
Program of Food and AgriLife Science.....	17
Program of Bioresource Science.....	19
Program of Life and Environmental Sciences.....	21
Program of Basic Biology.....	23
Program of Mathematical and Life Sciences .....	25
Program of Biomedical Science .....	28

**The Graduate School of Integrated Sciences for Life, Hiroshima University, is recruiting students for the Doctoral Course in the Department of Integrated Science for Life to be enrolled in**

**1. Number of Students to Be Recruited and Venue for Examinations, etc.**

	Program	Number of students to be recruited	Examination Date	Examination Venue	Inquiries • Submission addresses
Department of Integrated Sciences for Life	Biotechnology	A few	One day between August 6 and August 29, 2024  * Please refer to the "Note" below.	* Please refer to the "Note" below.	, Hiroshima University 1-3-1, Kagamiyama, Higashi-Hiroshima, 739-8530 TEL: (082) 424-7008, 7009
	Food and AgriLife Science				(Graduate Student Affairs), Hiroshima University 1-4-4, Kagamiyama, Higashi-Hiroshima, 739-8528 TEL: (082) 424-7908
	Bioresource Science				(Graduate Student Affairs), Hiroshima University 1-7-1, Kagamiyama, Higashi-Hiroshima, 739-8521 TEL: (082) 424-6316
	Life and Environmental Sciences				(Graduate Student Affairs), Hiroshima University 1-3-1, Kagamiyama, Higashi-Hiroshima, 739-8526 TEL: (082) 424-7309, 4468
	Basic Biology				
	Mathematical and Life Sciences				
	Biomedical Science				

Note: Examination date, and time,

will be notified individually later.

## 2. Applicant Eligibility

Applicants must satisfy one of the following qualifications or be expected to receive any one of the following qualifications by September 30, 2024. Applicants shall be residing in Japan and must make an affirmation of admission when applicants will pass the entrance examination.

- (1) Have received a master's degree or profession's degree in Japanese institutions;
- (2) Have received a master's degree or a degree equivalent to profession's degree outside Japan;
- (3) Have completed class subjects in Japan conducted by a foreign school by correspondence education and been conferred a degree equivalent to a master's degree or a professional degree;
- (4) Have completed a course in Japan at an educational facility positioned as a facility that has the curriculum of a foreign graduate school under said foreign country's school education system and designated separately by the Minister of Education, Culture, Sports, Science and Technology, and has been conferred a degree equivalent to a master's degree or a professional degree.
- (5) Have completed a course at the United Nations University, established based on the December 11, 1972 United Nations General Assembly resolution stipulated in Article 1, Paragraph 2 of the Act on Special Measures (Act No. 72 of 1976) incidental to enforcement of the agreement between the United Nations and Japan regarding the headquarters of the United Nations University (hereafter, United Nations University), and has been conferred a degree equivalent to a master's degree.
- (6) Have completed a curriculum at a foreign school, an educational facility designated in Item 4, or the United Nations University, has passed an equivalent to the examination and screening stipulated in Article 16-2 of the Standards for Establishment of Graduate Schools, and is recognized as having academic ability equal to, or greater than, a person possessing a master's degree.

Be sure to contact each support office in charge of the program before the application period, if you think you have academic achievements equivalent to or higher than those having completed a master's course at a university and have been conferred a degree equivalent to a master's degree.

## 3. Application Procedures

### (1) Application methods

Applicants are required to apply using "online application system", and send the necessary documents by post. (Partially online application hereinafter referred to as "online application")

#### <Online application>

- 1) Enter your personal information.
- 2) Pay the application fee, 30,000 yen.
- 3) All application documents must be either sent by mail or delivered in person to the aforementioned address.

**Note:**

**The**  
**application procedure wouldn't be completed without either sending or delivering in person all the necessary application documents by the due date.**

the aforementioned address)

### (2) Application period

Applicants must complete all of the above procedures (from 1 to 3 in (1)) within the application period.

**From July 24, 2024 to July 30, 2024 (No later than 17:00 (JST))**

### (3) Online application



Helpdesk (\*Japanese speaking only)

Inquires accepted from 10:00 am to 6:00 pm (\*Except from December 30 to January 3)

TEL: 03-6634-6494





“address”, “transfer destination information” and “contact telephone number” in the prescribed format given from the university and send it to the address mentioned page 5 by postal mail by Friday, February 21, 2025. (In any case, the Online Application Processing Fee is ineligible for a refund.)

- (1) If the application documents have not been submitted, or if they have not been accepted
- (2) If duplicate payments of the entrance examination fee have been made in error

You will be issued with a Registration Number (not your Examinee’s Number). Please make a note of it or to print out a copy of the computer screen showing the number. The Registration Number is needed for confirming the application details later, and for sending the application documents by post.

Submission Address: Each support office (see page 5)

All application documents must be either sent by registered mail or delivered in person to the support office. If you submit the application documents directly to the support office, application documents are accepted from 8:30 to 17:00 on a weekday. Please note that the office is closed on Saturday, Sunday, and national holiday.

If you send the application documents by mail, you must send them by registered mail and ensure that the documents reach the office by Tuesday, July 30, 2024. Should the application documents fail to reach the office by that date, however, those postmarked on or before Friday, July 26, 2024 can be accepted.

On the envelope, please write “Application for the Program of ○○○○○, the Graduate School of Integrated Sciences for Life, Hiroshima University” in red ink.

**(4) Documents to be submitted (Specified forms can be downloaded from the Home Page.)**

<b>A</b>	Academic Transcripts	Should be prepared and signed by the president/dean of the university from which you have graduated and sealed securely.
<b>B</b>	Certificate of (Expected) Graduation of Master’s course	Should be prepared and signed by the president/dean of the university from which you have graduated, or expect to graduate *If you are a graduate or a current student of a university in China, please obtain the following document by requesting it at “中国高等教育学历证书查询(CHSI)” ( <a href="http://www.chsi.com.cn/xlcx/bgys.jsp">http://www.chsi.com.cn/xlcx/bgys.jsp</a> ), and submit it to us together with “毕业证书(Certificate of Graduation)” and “学士(硕士)学位证书(Bachelor/Master’s Diploma)”. • Graduates: Online Verification Report of Higher Education Qualification Certificate (教育部学历证书电子注册备案表) • Expected Graduates: Online Verification Report of Student Record (教育部学籍在线验证报告) Please note that applicants must pay the issuing fee for the Online Verification Report (2 元/ certificate) by themselves. Also be sure that there are 15 or more days left until the expiration date of the online verification at the time of its submission.
<b>C</b>	Curriculum vitae	(Use the official form.) All the schools/educational institutions you have enrolled in shall be written.
<b>D</b>	Summary of Master’s Thesis and/or Research Highlights	(Use the specified forms.) Applicants who have completed (are expected to complete) master’s course should submit Summary of Master’s Thesis. Applicants who have research records after completing master’s course should also submit Research Highlights together. Applicants who had not completed master’s course should submit Research Highlights. To be approximately 1,000 words in length.

<b>E</b>	Detailed Descriptions of Research Highlights	(Use the specified forms.) Describe your research achievements such as your academic papers, books/journals, if any, and attach copies of your academic papers.
<b>F</b>	Research Plan	(Use the official form) Submit the research plan in doctoral course written in about 400 English words.
<b>G</b>	Return Envelope	A self-addressed standard-size envelope with appropriate postage (stamps)

**(5) Address for submission of application documents:**

Please see page 5 of these application guidelines.

**(6) Pre-arrangements for special needs applicants**

Those who require special consideration for taking examinations and/or pursuing an academic program due to a disability or other legitimate reason must first contact the Support Office (see page 5) and then submit a statement of information as described below (in free format) to provide advance notice so that necessary arrangements may be made.

(a) Period of statement submission: From July 10, 2024 to July 12, 2024

(b) Information to include in the statement

[1] Applicant's name, address, and contact telephone number

[2] Name of the last school attended, the name of program in which you wish to enroll, and the name of the expected academic supervisor

[3] Type and degree of disability (If you are being treated, please submit a medical certificate.)

[4] Requested consideration regarding examinations

[5] Requested consideration after enrollment

[6] Arrangements made at school(s) previously attended

[7] Description of daily life

#### 4. Examination Date and Time

Examination Date	Examination	Time
One day between August 6 and August 29, 2024 *	Interview (about 60 minutes/person)	TBD*

\* Examination date, and time, and venue will be notified individually later.

#### 5. Screening Methods

Screening will be based on the results of an examination (interview).

Your academic transcripts, summary of master's thesis / research highlights, and research plan will be reflected in the interview.

#### 6. Announcement of Successful Applicants

**12:00 (expected), September 6 (Fri.), 2024**

- (1) The Graduate School will send letters of acceptance to successful applicants. If you do not receive the letter even if your ID number is on the list of successful applicants, please inquire at each support office (page 5).
- (2) Successful applicants' ID numbers will be released on the website of the Graduate School of Integrated Sciences for Life, Hiroshima University. Please note that the announcement of the website will be unofficial. Official announcement will be made via the letters of acceptance. The office will not accept inquiries by phone regarding the results of the examinations.

## 7. Enrollment Fee and Tuition Fee

Enrollment Fee: ¥282,000

Tuition Fee: ¥535,800 per year (¥267,900 per semester)

- (1) The enrollment fee, once paid, will not be refunded for any reason.
- (2) If tuition is changed, students must pay the new tuition from the revision.
- (3) Details of enrollment procedures, which will be conducted in mid-September, 2024 for October 2024 admission, and will be conducted in mid-March, 2025 for April 2025 admission, will be notified later to successful applicants.

## 8. Payment of Examination Fee and Enrollment Fee

From – To --	Examination Fee	Enrollment Fee
From Master's course To Doctoral course at Hiroshima University	×	×
From Master's course of another university To Doctoral course at Hiroshima University	○	○
Entering the Doctoral course after completing a Master's course of the Graduate School, Hiroshima University but with a time interruption in between	○	○

(Note) : Necessary ×: Unnecessary

## 9. Hiroshima University Excellent Student Scholarships

To inspire students to study hard and to foster excellent human resources, Hiroshima University institutes its own scholarship system that supports students who show excellent performances at their research achievement and so on.

## 10. Personal Information

Applicants' personal information (name, date of birth, sex, etc.) provided for screening will be used solely for the purpose of screening, announcement of results, and enrollment procedures. After enrollment, the University will manage the information to use it for student support activities (filing applications for scholarships and for waiving/discounting tuitions, etc.), and survey and research activities (for instance, surveys and analyses of applicants in order to improve screening systems). The University shall neither appropriate the information for any other purpose nor provide it to individuals/groups other than faculty or staff members of the University.

## 11. Examination Information Disclosure

The disclosure of examination results (considered as personal information) may be requested in the following manner:

- (1) Obtain an examination information disclosure application form:  
Write to the address below, indicating on the envelope \_\_\_\_\_ or "Examination Information Disclosure Application Form Request," enclosing a self-addressed return envelope (long No. 3 type, 120 mm×235 mm) bearing the examinee's name, address and postal code and an 94 yen stamp.
- (2) Complete the examination information disclosure application form, and send by post the documents listed below between April 1 and May 31, 2025(postmarked) to the address mentioned page 5.
  - ① Completed examination information disclosure application form
  - ② Original Examination Card for the admission examination of the Graduate School of \_\_\_\_\_, Hiroshima University (a copy will not be accepted; the original Card will be returned at the time of information disclosure)  
Self-addressed return envelope (long No. 3 type, 120 mm × 235 mm) bearing the examinee's name, address and postal code and a 414 yen stamp.
- (3) The Graduate School of \_\_\_\_\_ will send a notice of examination information disclosure to the Disclosure Applicant by simplified registered mail within 30 days from the receipt of the application form.

## 12. Frontier Development Program for Genome Editing

Hiroshima University has launched the Frontier Development Program for Genome Editing which was selected as a WISE program by MEXT in 2018. This program includes a Life Science Course (5-year curriculum) and a Medical Course (4-year curriculum), providing students with opportunities to acquire basic and applied knowledge and learn genome editing techniques. The program enables students to master genome editing technologies and apply them directly to the industry.



### Admissions

The Life Science Course (3-year curriculum) of the Frontier Development Program for Genome Editing is open to students who will be admitted to the Doctoral Course of the Graduate School of Integrated Sciences for Life in October 2024 or April 2025. (Transfer admission to 3rd year)

Those who wish to enroll in this program must apply for this program in addition to applying to the Graduate School. For details, please visit the website at the following URL.

- \* The prospective advisor of the applicant must be someone from the list of faculty members of the Frontier Development Program for Genome Editing.
- \* Students in this program must fulfill the requirements for both their major in the Graduate School and this program simultaneously.
- \* Candidates and successful candidates of the Early Completion Course of the Doctoral Program for working people (社会人特別入試短期修了コース) of the Graduate School of Integrated Sciences for Life are not eligible to apply for this program.

URL : <https://genome.hiroshima-u.ac.jp/en/recruitment/index.html>

### Financial Support for Students \*see Note 1

We currently offer financial support to students in the program as described in (1), (2), (3), and (4) below. This support is provided only during the standard course period.

50,000 yen per month for six months will be provided to up to three students who are recognized as having excellent academic performance and outstanding achievements in academic activities after enrollment. (Details of the application procedure will be announced after admission.) \*see Note 2

Free tuition will be provided for the third and later years of the Life Science Course and for all years of the Medical Course. (Some students may not be eligible due to their academic performance.) \*see Note 2

Ikenoue Student Dormitory is available with priority for two years after enrollment in the program. (Boarding fee, common expenses, and utility fee will be charged.) \*see Note 2

Travel grants (transportation and accommodation expenses) will be provided up to the amount specified by the program for students' education and research.

### **13. Additional Notices**

- (1) **Prior to application, please consult about the research programs with a faculty member under whom applicant wishes to study.** (<https://www.hiroshima-u.ac.jp/en/ilife/research>)
- (2) Hiroshima University has established the university's Rules on Security Export Control in accordance with the Foreign Exchange 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.
- (3) The certificates to be submitted must be the originals or certified photocopies. Uncertified photocopies would not be recognized as official certificates.
- (4) No changes are permitted in the content of documents after their submission.  
The examination fee will not be returned for any reason.
- (5) Any forgery or falsification of the documents and/or academic fraud would result in cancellation of acceptance even after passing examination or admission.
- (6) If an applicant could not graduate from the university before the admission date, he/she would lose the eligibility to enter our graduate school in this session.
- (7) Application Guidelines and other related documents can be downloaded from the website of the Graduate School of Integrated Sciences for Life, Hiroshima University.
- (8) If the program of an academic supervisor under whom you wish to study is changed due to program reorganization, the program you belong to may change.
- (9) For further information, please contact the following each support office in charge of the program(s) (page 5).

### **14. Other Points of Attention**

Smoking is prohibited entirely in All Hiroshima University campuses from January, 2020.

大学院統合生命科学研究科主指導教員一覧表

生物工学プログラム

(1/4)


大学院統合生命科学研究科主指導教員一覧表

生物工学プログラム

(2/4)

大学院統合生命科学研究科主指導教員一覧表

生物工学プログラム

(3/4)



大学院統合生命科学研究科主指導教員一覧表

生物工学プログラム

(4/4)

大学院統合生命科学研究科主指導教員一覧表

食品生命科学プログラム

(1/2)


大学院統合生命科学研究科主指導教員一覧表  
食品生命科学プログラム

(2/2)

大学院統合生命科学研究科主指導教員一覧表

生物資源科学プログラム

(1/2)


大学院統合生命科学研究科主指導教員一覧表

生物資源科学プログラム

(2/2)


大学院統合生命科学研究科主指導教員一覧表  
生命環境総合科学プログラム

(1/2)

**大学院統合生命科学研究科主指導教員一覧表**  
生命環境総合科学プログラム

(2/2)

大学院統合生命科学研究科主指導教員一覧表

基礎生物学プログラム

(1/2)




大学院統合生命科学研究科主指導教員一覧表

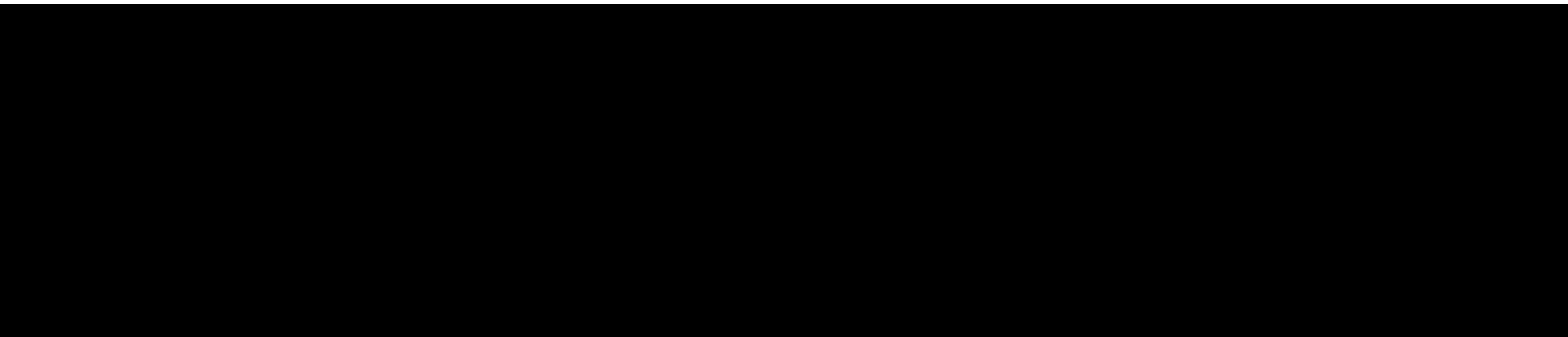
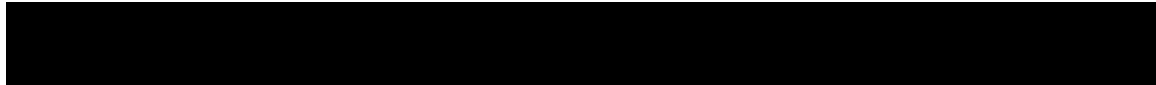
基礎生物学プログラム

(2/2)

大学院統合生命科学研究科主指導教員一覧表

数理生命科学プログラム

(1/3)



大学院統合生命科学研究科主指導教員一覧表

数理生命科学プログラム

(3/3)


大学院統合生命科学研究科主指導教員一覧表  
生命医科学プログラム

(1/2)

大学院統合生命科学研究科主指導教員一覧表

生命医科学プログラム

(2/2)