



**2026 Academic Year**

**TOHOKU UNIVERSITY  
GRADUATE SCHOOL OF LIFE SCIENCES**

**Doctoral Degree Program (3-year course)  
Student Application Guidelines  
(2026 October Admission)**

**GENERAL SELECTION  
SPECIAL SELECTION FOR WORKING STUDENTS  
SPECIAL SELECTION FOR INTERNATIONAL STUDENTS**

Application Period	Monday, May 18, 2026 – Thursday, May 28, 2026, until 17:00
Connection Test	Saturday, June 13, 2026
Entrance Examination	Saturday, June 20, 2026 – Sunday, June 21, 2026
Result Announcement	Wednesday, July 1, 2026, around 17:00
Enrollment Date	October 1, 2026

**Tohoku University Graduate School of Life Sciences**  
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## **Information for Prospective Students**

### **Tohoku University Graduate School Admission Policy**

#### **Philosophy & Mission**

With over 100 years of history and distinguished traditions, Tohoku University has developed excellence in education and research under its principles of "Research First," "Open Doors," and "Practice-Oriented Research and Education" since its establishment in 1907. The university will maintain these traditions while looking toward even more dramatic progress in the future. As a world-leading center of education and research, it will contribute greatly to the human race by grappling with the difficult and complex issues facing the 21st century.

Tohoku University will focus its efforts of its faculties, graduate schools, and research institutes to foster ethical international leaders who will carry humanity into the future, while expanding its globally renowned creative research for the benefit of society at large.

#### **Characteristics**

##### 1) Three Foundational Ideals

"Research First," "Open Doors," and "Practice-Oriented Research and Education" — soon after its founding, Tohoku University established this set of unique ideals, the substance of which it is continually developing in response to our changing times.

##### 2) Rich Educational Environment

Tohoku University has numerous research organizations and facilities, primarily comprising 10 undergraduate schools, 15 graduate schools, 3 professional graduate schools, and 6 research institutes. Research institute staff also participate in educational activities (there are approx. 3,000 instructors; enrollment limits are approx. 2,400 for undergraduates, 2,700 for graduate students).

##### 3) Research University

Tohoku University is a school that continuously produces numerous internationally recognized research results and concertedly pushes forward with leading-edge research and education.

##### 4) Active Regional/Industrial-Academic Ties

The university is actively working to expand its diverse regional and industrial ties.

##### 5) Globalizing Education and Research

Among Japan's national universities, Tohoku University is one of the top schools in terms of agreements with overseas universities. It is actively expanding exchange in education and research. The university strives to foster globally active individuals through strong support for studying abroad by Japanese students, as well as recruitment of numerous international students.

#### **Ideal Tohoku University Applicants**

Tohoku University seeks students who sympathize with the university's principles and who are motivated by:

- 1) the desire to make outstanding contributions as world-class researchers by addressing the issues facing humanity in the 21st century, and
- 2) the desire to make outstanding contributions to the development of society as highly specialized professionals who possess abundant knowledge and leadership.

To realize these ambitions, students should also have strength of will, academic curiosity, a broad

perspective, and an excellent foundation of specialized knowledge and abilities.

### **Tohoku University Admissions Process (Graduate School)**

Depending on the number and type of candidates sought, Tohoku University graduate schools provide multiple categories of, and opportunities for undergoing, entrance exams to meet the needs of candidates from diverse backgrounds. Schools may evaluate the candidate's qualifications, abilities, and specialization using interviews, application documents such as research plans, proficiency exams, and external tests.

#### **Graduate School of Life Sciences Admission Policy**

The Tohoku University Graduate School of Life Sciences aims to foster leading researchers and engineers who can explore new areas of the life sciences using advanced knowledge and technologies. At the same time, we also focus on educating people who can leverage knowledge and technology based on the foundations of the life sciences and have a strong background in bioethics and environmental ethics. Therefore, we are looking for students who have a strong motivation to study the life sciences and the necessary academic background to complete the program.

In addition to the general selection examinations, we provide special selection examinations for working students, Japanese citizens returning from overseas (those who have lived in another country for a long time and received their education outside of Japan), and international students. Applicants are selected based on their motivation to carry out research according to our educational goals and their specialized knowledge and qualifications.

#### **Master's Degree Program (2-year course)**

In the general selection entrance examinations for the first term, specialized knowledge and the sufficiency of basic academic skills in each field of the life sciences are evaluated by interview.

In the self-recommendation as well as the second- and third-term general selection examinations, professional knowledge and qualifications are evaluated by interview. In particular, individuals who have studied fields other than the life sciences will also be assessed based on their willingness to apply their knowledge to life sciences research.

For the special selection examinations for working students, Japanese citizens returning from overseas, and international students, an interview is conducted according to the characteristics of each type of applicant to evaluate professional knowledge and qualifications.

Regardless of which examinations are taken, proficiency in English, the common language of the academic world, is evaluated based on scores that have been attained on external certification tests.

Applicants are expected to learn more about the specialized knowledge and research methods of the field they intend to pursue before enrolling.

#### **Doctoral Degree Program (3-year course)**

The general selection entrance examinations, special selection examinations for working students, and special selection examinations for international students take the form of an interview. In this interview, all applicants are required to present their past research and plans for their research after admission. Applicants are evaluated as to whether they have the specialized knowledge and qualifications necessary to carry out their research.

In addition, proficiency in English, the common language of the academic world, is evaluated based on scores that have been attained on external certification tests.

Before enrolling, applicants are expected to thoroughly investigate the research trends in the field they intend to pursue.

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## 1. Departments and the Number of Students to be Accepted

Department	Number of Students	Course	Field of Study (Laboratory Name)
Department of Integrative Life Sciences	Few students	Brain and Nervous System	Neuroethology, Molecular Ethology, Brain Development, Systems Neuroscience
		Cellular Network	Membrane Trafficking Mechanisms, Developmental Dynamics, Organelle Pathophysiology, Super-Network Brain Physiology
		Developmental Regulation Network	Cancer Biology
		(Cooperative faculties)	<u>Systems Neurophysiology, Molecular Oncology, Immunobiology, Biological Interactions, Brain Aging, Neuronal Cell Biology</u>
Department of Ecological Developmental Adaptability Life Sciences	Few students	Biological Dynamics	Organ Morphogenesis, Plant Cell Dynamics, Plant Development, Plant Evolutionary Biology, Environmental Genetics, Plant Sensory and Developmental Biology, Adaptive Morphology
		Ecological Dynamics	Functional Ecology, Ecological Integration, Symbiosis Genomics, Macroecology, Watershed Ecology
		Biodiversity Dynamics	Plant Diversity and Evolution (*), Marine Biodiversity
		Eco-Socio Dynamics	Ecosystem Functions
		(Cooperative faculties)	<u>Systems Bioinformatics, Human Evolution</u>
Department of Molecular and Chemical Life Sciences	Few students	Chemical Biology	Analytical Bioorganic Chemistry, Biostructural Chemistry, Bioactive Molecules, Molecular and Cellular Biology, Applied Biological Molecular Science
		Molecular and Network Genomics	Microbial Genetics and Evolution, Plant Reproductive System, Molecular Genetics and Physiology (*), Evolutionary Genomics
		Multilevel Biomolecular Structure and Dynamics	Molecular Analysis of Biological Functions, Biofunctional Chemistry and Nanobiotechnology, Structural Mechanism Research and Development, Dynamic Structural Biology
		Genome Informatics	Omics and Informatics
		(Cooperative faculties)	<u>Chemical biology of Natural Product, Redox Biology, Bioorganic Medicinal Chemistry, RNA Physiology</u>

Notes: A “field” refers to a laboratory. In many cases, a laboratory is led by a faculty member serving as the head of the laboratory (such as a professor, associate professor, or assistant professor) and is composed of other faculty members and graduate students. The “head of the laboratory” refers to the faculty member who oversees and manages the laboratory.

An “academic advisor” is a faculty member responsible for providing research and academic guidance to students, as well as for the examination and conferral of their degrees. Academic advisors are typically

professors, associate professors, or assistant professors who serve as heads of the laboratory; however, even faculty members holding the same title may not always be eligible to serve as academic advisors. Applicants are required to contact their prospective academic advisor in advance. For information on which faculty members are eligible to serve as advisors in each laboratory, please contact the relevant laboratory directly.

Underlined fields indicate fields of study for which collaborating faculty members are responsible.

(\* In fields marked with an asterisk, the prospective academic advisor may retire or be transferred within the next few years. When applying, please consult with the faculty member you wish to study under in advance and confirm that they will be able to supervise you for the full duration of your program. Please submit your application only after obtaining their consent.

## **2. Eligibility and Application Requirements**

### General Selection, Special Selection for International Students

Applicants for the 3-year Doctoral Course applying for the General Selection and the Special Selection for International Students must fall into one of the following categories.

For the Special Selection for International Students, applicants must be non-Japanese nationals with a "Student" type of visa. Applicants with other types of visas (permanent resident, spouse or child of a Japanese national, spouse or child of permanent resident, long-term resident, etc.) should apply through the general selection.

Applicants who have graduated from a six-year undergraduate course in medicine, dentistry, pharmacy, or veterinary medicine fall under (8).

- (1) Those who have received or expect to receive a master's degree or a professional degree by September 2026 from a university in Japan.
- (2) Those who have received or expect to receive a master's degree or a degree equivalent to a professional degree from a graduate school of a foreign university by September 2026.
- (3) Those who have completed in Japan a distance education program provided by a foreign school and have received or are expected to receive a master's degree or a degree equivalent to a professional degree in Japan by September 2026.
- (4) Those who have completed an education program provided by a foreign school in Japan which is designated by the Japanese Minister of Education, Culture, Sports, Science, and Technology (MEXT) as being equivalent to a graduate program in Japan and have received or are expected to receive a master's degree or a degree equivalent to a professional degree by September 2026.
- (5) Those who have completed a program at the United Nations University and have received or are expected to receive a degree equivalent to a master's degree by September 2026.
- (6) Those who have studied on the education program provided by a foreign school, an educational institution with a graduate course in a foreign country, or a United Nations University, who passed an examination and assessment equivalent to those prescribed in Article 16-2 of the Standards for the Establishment of Graduate Schools (Ordinance of the Ministry of Education, Science and Culture No. 28 of 1974), and who is recognized as having academic abilities equivalent or superior to a master's degree holders by September 2026.
- (7) Those designated by the Japanese Minister of Education, Culture, Sports, Science and Technology (MEXT)
  - a) Those who have graduated from a university and have worked for a university or research organization as a researcher for more than 2 years, and who have been recognized by this graduate school as having academic abilities equivalent or superior to a master's degree or a professional degree based on the results of the research.
  - b) Those who have completed 16 years of school education in a foreign country, or have completed 16 years of school education in a foreign country by taking a distance education program provided by a foreign school in Japan, have worked for a university or research organization as a researcher for more than 2 years, and who have been recognized by this graduate school as having academic abilities equivalent or superior to a master's degree or a professional degree

based on the results of the research.

- (8) Those who have been recognized by the graduate school as having academic ability equivalent or superior to a master's degree or a professional degree through individual screening of admission qualifications, and who will reach the age of 24 by September 2026.

**Note 1: Applicants should contact the faculty member whose supervision they wish to receive in advance, confirm the research plan after admission, obtain confirmation that the faculty member will be able to supervise the applicant, and submit the application form only after informing the prospective supervisor of the intent to apply.**

Note 2: Those who are expected to complete the master's course (excluding those who are expected to complete the master's course in this Graduate School) and wish to enter the doctoral course of this Graduate School should apply according to this guideline.

Note 3: Those who wish to apply according to the above (6) should contact the Academic Affairs Office by Friday, April 17, 2026.

Note 4: Those who wish to apply according to the above (7) or (8) should undergo the preliminary screening as instructed below and apply according to the results.

### **About the preliminary individual screening for admission.**

Please submit the following documents to the Academic Affairs Section of the Graduate School of Life Sciences by mail (registered mail) or in person by Friday, April 17, 2026.

Notification of the screening results will be sent by registered mail around Friday, May 8, 2026.

- a. Application form for pre-application screening (Please request an application form from the Academic Affairs Section of the Graduate School of Life Sciences.)
- b. Official academic transcript (prepared by the head of the last institution attended)
- c. Abstract of the research (about two A4 pages) and reference materials such as academic papers
- d. Envelope for notification of screening results (standard size, with applicant's name and address written on it, and a stamp of 460 yen)
- e. Other materials that may be used as a reference for a review

Note 5: Those who wish to apply for the Special Selection for International Students should apply to the Academic Affairs Section of the Graduate School of Life Sciences by Friday, April 17, 2026, to confirm their eligibility.

### **Special Selection for Working Students**

Applicants for the Doctoral Course (3-year course) applying for the Special Selection for Working Students must fall into one of the following categories.

- (1) Those who have been working at a research institution for at least two years after receiving a master's degree or a professional degree from a university in Japan.
- (2) Those who have been working at a research institution for at least two years after receiving a master's degree or a professional degree from a foreign university.
- (3) Those who have been working at a research institution for at least two years after receiving a master's degree or a professional degree from a distance education program provided by a foreign school.
- (4) Those who have been working at a research institution for at least two years after receiving a master's degree or a professional degree from an education program provided by a foreign school in Japan which is designated by the Japanese Minister of Education, Culture, Sports, Science, and Technology (MEXT) as being equivalent to a graduate program in Japan.
- (5) Those who have been working at a research institution for at least two years after receiving a master's

degree or a professional degree from a program at the United Nations University.

- (6) Those who have been working at a research institution for at least two years after studying on the education program provided by a foreign school, an educational institution with a graduate course in a foreign country, or a United Nations University, who passed an examination and assessment equivalent to those prescribed in Article 16-2 of the Standards for the Establishment of Graduate Schools (Ordinance of the Ministry of Education, Science and Culture No. 28 of 1974), and who is recognized as having academic abilities equivalent or superior to a master's degree holders.
- (7) Those who have been working at a research institution for at least 4 years after graduation from a university and who has been recognized by the graduate school as having academic ability equivalent to or superior to a master's degree or a professional degree.
- (8) Those who have experience of working or researching, who have been recognized by the graduate school as having academic ability equivalent or superior to a master's degree or a professional degree through individual screening of admission qualifications, and who will reach the age of 24 by September 2026.

**Note 1: Applicants should contact the faculty member whose supervision they wish to receive in advance, confirm the research plan after admission, obtain confirmation that the faculty member will be able to supervise the applicant, and submit the application form only after informing the prospective supervisor of the intent to apply.**

- a. Abstract of research such as a master's thesis (about one A4 page) and reference materials such as academic papers
- b. Summary of research conducted after obtaining a master's degree, etc. (about one A4 page)
- c. Field of research applicant wishes to enroll and research plan (about one A4 page)

Note 2: Those who wish to apply according to (6) should contact the Academic Affairs Section of the Graduate School of Life Sciences to confirm the documents to be submitted, and submit these documents by Friday, April 17, 2026.

Note 3: Those who wish to apply according to (7) should undergo the preliminary screening and apply according to the results. Please submit the following documents to the Academic Affairs Section of the Graduate School of Life Sciences by mail (registered mail) or in person by Friday, April 17, 2026. Notification of the screening results will be sent by registered mail around Friday, May 8, 2026.

- a. Application form for pre-application screening (Please request an application form from the Academic Affairs Section of the Graduate School of Life Sciences.)
- b. Official academic transcript issued by the university attended.
- c. Abstract of the research (about two A4 pages) and reference materials such as academic papers
- d. Envelope for notification of screening results (standard size, with applicant's name and address written on it, and a stamp of 460 yen)
- e. Other materials that may be used as a reference for the review

Note 4: Those who wish to apply according to (8) should undergo the preliminary screening and apply according to the results. Please submit the following documents to the Academic Affairs Section of the Graduate School of Life Sciences by mail (registered mail) or in person by Friday, April 17, 2026. Notification of the screening results will be sent by registered mail around Friday, May 8, 2026.

- a. Application form for pre-application screening (Please request an application form from the Academic Affairs Section of the Graduate School of Life Sciences.)
- b. Official academic transcript (prepared by the head of the last institution attended)
- c. Abstract of the research (about two A4 pages) and reference materials such as academic papers
- d. Envelope for notification of screening results (standard size, with applicant's name and address written on it, and a stamp of 460 yen)
- e. Other materials that may be used as a reference for the review

Note 5: Those who are employed in private or other companies may enroll while still employed as long as it does not affect their research or take a leave of absence from their current position.

### 3. Application Period

(1) Applicants are required to carefully read this application guide and upload the application documents to the TAO application registration site (hereinafter referred to as "TAO").

#### Upload period to TAO

From Monday, May 18, 2026 to Thursday, May 28, 2026 at 17:00

(2) For documents that must be submitted as original documents in paper form, such as IELTS certificates, please submit them by the following deadline. (Documents sent by postal mail must arrive by the deadline.)

Thursday, May 28, 2026

In case of submission directly at the office of the Academic Affairs Section, documents can be accepted from 9:00 to 11:50 and from 13:00 to 17:00 on weekdays.

1-1-2 Katahira, Aoba-ku, Sendai 980-8577  
Academic Affairs Section, Graduate School of Life Sciences, Tohoku University  
TEL: 022-217-5706 Email: lif-kyom@grp.tohoku.ac.jp

### 4. Application Procedures

#### *(1) Application Procedure*

Please follow the steps below to submit your application via TAO. Please note that some documents, such as IELTS certificates, are required to be submitted in original paper form.

#### 1) Confirmation of Application Procedures and Advance Preparation

First, please read this application guide carefully, confirm that you are eligible to apply, and prepare the necessary application materials.

- Please obtain approval for your application from your academic advisor in the field you wish to study. (For details, please refer to "(2) Application Documents" Notes 1 and 2, as well as No. 7.)
- Please note that some application documents require the submission of original paper English score reports, such as official TOEFL scores, which may take around two months to be delivered; therefore, please be sure to prepare them well in advance.

#### 2) Examination Fee Transfer (to be made within the application period)

Transfer the examination fee of 30,000 yen and obtain documents (such as bank statements) to verify the transfer. (For details, see (2) Application Documents No. 8 "Examination fee").

If you are applying from overseas, we will provide information on how to pay the entrance examination fee from abroad. Please contact the Academic Affairs Office of the Graduate School of Life Sciences by email.

#### 3) Application registration through TAO

- a) To use TAO, please create an applicant account on the TAO website below.  
TAO website: <https://admissions-office.net/en/portal>
- b) Next, please proceed with the application for the entrance examination on the "Graduate School of Life Sciences Admission Information Page" and complete your registration by entering the

required information and uploading the designated documents through the "TAO Application URL".

Graduate School of Life Sciences Admission Information Page:  
<https://www.lifesci.tohoku.ac.jp/schedule/>

- The "TAO Application URL" on the Entrance Examination Information website is different for each type of entrance examination. Please make sure that it is the entrance examination you are applying for before registering your application.
- Please be careful not to make any mistakes in selecting the university, graduate school, or entrance exam.
- Please convert certificates and other documents to PDF or another designated format and upload them.
- A temporary save option is available, so please use this function, for example, to make a final confirmation before submitting your application.
- After entering your application information, please confirm that the status on TAO is marked as "Submitted".

4) Complete the Graduate School of Life Sciences "Application Confirmation Form".

The form will be available on the Graduate School of Life Sciences website on the Admission Information Page (see below) depending on the application period. Please fill in the required information regarding your web environment during the examination and submit your responses. Please note that some of the questions on the form overlap with those on the TAO form.

Graduate School of Life Sciences Admission Information Page:  
<https://www.lifesci.tohoku.ac.jp/schedule/>

**(2) Application documents**

Notes:

1) Please contact your prospective supervisor in advance to inform them that you plan to apply for the Doctoral Program October Admission entrance examination. Make sure to have a thorough discussion with the professor to fully confirm and mutually understand the research activities and topics that can be conducted in their laboratory. Obtain their approval before applying (Refer to No. 7).

2) There is a deadline for application, so please contact your prospective academic advisor(s) well in advance.

No	Documents	Notes
1	Application form	Please fill in the information in each section of the "Application for Admission" on the TAO.
2	Photo data	Upload the applicant's own photo at TAO. - The photo must be taken within 3 months before the application. - The data format must be PNG, JPEG, or JPG.
3	Research plan	Prepare a research plan for your post-enrollment studies and upload it to the TAO in PDF format. <u>Precautions for Preparation</u> - Please write horizontally; about two A4 pages. - Please write the applicant's name and field of interest on the first line. - The standard font size is 11-12 pt. and the standard number of words in the main text is 2,000 (1000 words in English).
4	Research papers	Upload both (1) and (2) below in PDF format to the TAO. (1) List of research papers, etc. (Horizontal, A4 size) (2) Master's thesis or other representative research papers *The maximum upload size is 20 MB. If you wish to upload more than 20 MB, please contact the Academic Affairs Section of the Graduate School of Life Sciences in advance.

		<p>*Those who are currently enrolled in a 2-year Master's course and cannot submit their Master's thesis at the time of application should upload a PDF file to the TAO containing the following information: the expected submission date, the expected title of the thesis, and a document confirming that approval has been obtained.</p>
5	Transcript of academic records (both from the undergraduate and graduate courses)	<p>Upload both (1) and (2) in PDF format to the TAO.</p> <p>1) Transcripts from the university (undergraduate school) you graduated from</p> <p>2) Transcript from the graduate school (2-year master's program or professional degree program)</p> <p>The original hard copy of the latest version of these certificates (in paper form) must be submitted during the enrollment process (in September 2026).</p>
6	<p>Certificate of (expected) graduation</p> <p>(From the last institution attended)</p>	<p>Depending on the final educational background, upload the appropriate certificate from (1) to (4) below in PDF format to the TAO.</p> <p>(1) Certificate of (expected) graduation for those who have completed (or are expected to complete) the Master's course or professional degree course.</p> <p>(2) Certificate of graduation from a university for those who have graduated from an undergraduate course.</p> <p>(3) A certificate of acceptance of an application for a bachelor's (master's) degree from the National Institution for Academic Degrees and University Evaluation.</p> <p>(4) For others, a certificate of (expected) graduation or a certificate of (expected) completion of studies from the last institution attended.</p>
7	Email confirmation of application approval from prospective supervisor (see note)	<p>Submit (upload) <b>an email</b> in A4 PDF format to the TAO confirming that you have received approval for your application from your prospective supervisor.</p> <p>- The email must include the following information:</p> <p>Sender's email address and date of sending, Recipient's email address and date of receipt, Applicant's name, Name of entrance exam (Doctoral Program October Admission entrance examination), and the type of selection (general selection, special selection for international students/working students) Field of study, and name of prospective supervisor. Please refer to the example of the email below.</p> <div style="border: 1px solid black; padding: 10px;"> <p>--Sample e-mail sent by a candidate to a potential supervisor--</p> <p>Subject: Regarding application for Doctoral Program October admission entrance examinations for the Graduate School of Life Sciences at Tohoku University</p> <p>Professor &lt;professor's name&gt;</p> <p>My name is &lt;applicant's name&gt; from the graduate school of ○○, ○○ University. (Reason for application, etc.)</p> <p>I would like to apply to your laboratory for the Doctoral course entrance examination, October admission, through the general selection as follows.</p> <p>Field of study: ○○</p> <p>Expected supervisor: ○○Professor (or Associate Professor)</p> </div>

		<p>--Sample of a reply e-mail from a prospective supervisor to an applicant -- (Note)</p> <p>Dear Mr. &lt;applicant's name&gt;</p> <p>I, &lt;professor's name&gt;, hereby give my approval to take Doctoral program entrance examination, October admission.</p> <p>Prospective Academic Advisor: ○○ Field of study: ○○</p> <p>----- Email signature of prospective academic advisor (name, affiliation, contact information, etc.)</p> <p>Note: The reply email from your prospective advisor is a response to your application and does not guarantee admission to the Graduate School of Life Sciences of Tohoku University.</p> <p>Please contact the faculty members you wish to be your advisor individually and obtain their consent, rather than sending emails to multiple faculty members at the same time.</p> <p>Furthermore, professors, associate professors, or assistant professors who serve as heads of the laboratory may be designated as prospective advisors; however, even if they hold the same title, some faculty members may not be eligible to serve as advisors. Please contact each laboratory directly to confirm which faculty members can be designated as prospective advisors.</p>												
8	Examination Fee and Confirmation of Examination Fee Payment	<p>(1) Transfer the application fee of 30,000 yen to the bank account below via bank counter, ATM, or Internet banking during the application period. (Applicants are responsible for any handling charges incurred at the time of transfer.) Please be careful not to make any mistakes in the information below.</p> <p>Payment details:</p> <table border="1" data-bbox="544 1431 1423 1845"> <tr> <td>銀行名 / Bank Name</td> <td>UFJ/ MUFG Bank, Ltd. (金融機関/ Bank Code: 0005)</td> </tr> <tr> <td>支店名 / Branch Name</td> <td>わかたけ支店/Wakatake Shiten (支店コード/ Branch Code: 809)</td> </tr> <tr> <td>預金種別/ Account Type</td> <td>普通 / Ordinary Savings</td> </tr> <tr> <td>口座番号/ Account Number</td> <td>2 2 5 9 4 1 1</td> </tr> <tr> <td>カナ名義/ Account-holder Name in Kana</td> <td>ダイ) トウホクダイガク/ DAI) TOUHOKUDAIGAKU</td> </tr> <tr> <td>口座名義/ Account-holder Name</td> <td>国立大学法人東北大学/ National University Corporation Tohoku University</td> </tr> </table> <p>Notes</p> <p>- When making a bank transfer, please enter the <b><u>name of the person who will be taking the examination</u></b>. Other information (telephone number, etc.) may be entered by the person actually making the transfer (e.g., a relative).</p>	銀行名 / Bank Name	UFJ/ MUFG Bank, Ltd. (金融機関/ Bank Code: 0005)	支店名 / Branch Name	わかたけ支店/Wakatake Shiten (支店コード/ Branch Code: 809)	預金種別/ Account Type	普通 / Ordinary Savings	口座番号/ Account Number	2 2 5 9 4 1 1	カナ名義/ Account-holder Name in Kana	ダイ) トウホクダイガク/ DAI) TOUHOKUDAIGAKU	口座名義/ Account-holder Name	国立大学法人東北大学/ National University Corporation Tohoku University
銀行名 / Bank Name	UFJ/ MUFG Bank, Ltd. (金融機関/ Bank Code: 0005)													
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口座名義/ Account-holder Name	国立大学法人東北大学/ National University Corporation Tohoku University													

		<ul style="list-style-type: none"> <li>- When transferring money from an account in the name of a person other than the applicant, be sure to change the name of the payee to the <b><u>name of the person taking the examination</u></b> before transferring the money.</li> <li>- If you are applying for an exemption from the application fee for disaster victims, please do not transfer the application fee. Please refer to the following website for details: <a href="https://www.tnc.tohoku.ac.jp/exempt.php">https://www.tnc.tohoku.ac.jp/exempt.php</a></li> <li>- Those who are expected to complete Tohoku University's master's or professional degree program in September 2026 are not required to pay this fee.</li> <li>- Japanese Government Scholarship (MEXT) students are not required to pay this fee.</li> </ul> <p>(2) After the transfer, please obtain proof of the transfer, such as a copy of your bank transfer request document, ATM statement, or a copy of your net banking transfer completion screen (please make sure that the transfer procedure has been completed) and upload it to the TAO. (The file format should be PNG, JPEG or JPG.)</p>
9	Certificate of residence (Jūminhyō)	<p>Only for foreigners residing in Japan (whose stay exceeds 90 days),</p> <ul style="list-style-type: none"> <li>- Upload the certificate in PDF format from the TAO.</li> <li>- The certificate must be issued within 3 months prior to the date of application.</li> <li>- Should include the status of residence and the number of the residence card, but do not need to include the personal number "My Number".</li> </ul> <p>*The original hard copy of the certificate (in paper form) issued in September 2026 must be submitted during the enrollment procedures (in September 2026).</p>
10	Certificate of research period	<p>Applicants applying for the “Special Selection for Working Students” should upload this document to TAO in PDF format.</p> <p>The certificate must be certified by the head of the company where the applicant is working and must indicate the period of research as specified in the application requirements. (Free format.)</p>
11	Permission to take an examination	<p>Applicants who are working and wish to enroll without a leave of absence from work should submit this document in the PDF format to the TAO. (Free format)</p>
12	TOEFL®TEST(*) TOEIC®TEST(**) IELTS or Duolingo English test score (Note 1)	<p>All applicants are required to submit a score from one of the following tests: TOEFL®, TOEIC®, IELTS, or Duolingo English Test score.</p> <p>Tests taken within the two years prior to the first day of the entrance examination are considered valid.</p> <p>Please note that it takes time to obtain scores from each test. Therefore, take the tests well in advance of your application to ensure that your scores are received in time.</p> <p>Multiple score submissions are allowed. (e.g. one TOEIC® L&amp;R score, one TOEFL iBT® score)</p> <p><b>(1) Eligible Scores</b></p> <ul style="list-style-type: none"> <li>➤ <b>TOEIC L&amp;R</b> Group TOEIC IP test score will not be accepted. This applies to the "Digital Official Score Certificate".</li> <li>➤ <b>TOEFL iBT</b> (including Home Edition) Group TOEIC ITP® test score will not be accepted.</li> </ul>

(Note 1) Grades for Foreign Language (English) will be based on the grades on this score sheet.

\*TOEFL is a registered trademark of Educational Testing Service (ETS). This material has not been reviewed or approved by ETS.  
\*\* The “TOEFL iBT® Test” is referred as the “TOEFL iBT®” in these guidelines.

Official Score Report must be submitted (including online reports).  
The score report for the TOEFL iBT test will automatically include two types of scores: the test result for each test date (Test Date score) and the MyBest™ score. The Graduate School will use the Test Date score.

➤ **IELTS** (Academic Module only)  
Test Report Form must be submitted.

➤ **Duolingo English Score**

This applies to test results issued online.

**(2) Uploading English Scores to TAO**

Please upload the applicable official score reports to TAO.  
(Accepted file formats are PDF, PNG, JPEG, or JPG.)

**(3) Submission of Original English Scores**

Please prepare and arrange for delivery of the official score by the application deadline, as follows.

➤ **TOEIC® L&R**

The "Digital Official Score Certificate" will be available on the TOEIC application site in PDF format. You only need to upload this PDF to TAO; submission of the original document is not required.

➤ **TOEFL iBT®**

Please complete the mailing procedures for the Official Score Report (including online reports) through ETS.

The DI code for ETS is B430 (Graduate School of Life Sciences, Tohoku University).

Please note that it takes approximately two months from the time the ETS is sent to the time it is delivered, so be sure to take the necessary steps well in advance.

➤ **IETS**

Please send the original Test Report Form (official transcript) by post.

➤ **Duolingo English Test**

After taking the test, you will be asked to select the school to which you wish to apply. Please select the Graduate School of Life Sciences to complete the issuance process.

Please take the test well in advance, as it may take some time for the score to be evaluated and in some cases the test may not be approved.

**If you have difficulty submitting the designated score by the application deadline**

(1) If you have difficulty submitting the official score by the application deadline, please upload the examinee's score (personal verification) or similar document when submitting the application through TAO.

(2) If the original eligible official score (in paper form) is not submitted by 17:00 on June 18 (Thu), the applicant will not be allowed to take the examination. The examination fee will not be refunded.

(3) The original official score (in paper form) to be submitted must be the



- (4) Foreign Language (English) Grades      The English test score submitted with the application will be converted to a foreign language proficiency score using the general method. If multiple scores are submitted, the highest score after conversion will be used.

## 6. Announcement of Results

(1) The examination numbers of successful applicants will be announced on the Graduate School of Life Sciences website, and successful applicants will receive a "Letter of Acceptance" via TAO. The Graduate School of Life Sciences will not respond to any inquiries regarding the results.

Scheduled date of announcement: Wednesday, July 1, 2026, around 17:00

Graduate School of Life Sciences website: <https://www.lifesci.tohoku.ac.jp/>

(2) Successful applicants will be required to pay the following fees by the specified date.

- a. Admission fee: 282,000 yen (estimated amount)
- b. Second semester (October - March) tuition: 267,900 yen (535,800 yen per year) (estimated amount)

Note 1: The amounts shown above are estimated amounts. In the event of a revision of the entrance and tuition fees, the new amounts will be used from the time of the revision.

Note 2: The details of the payment of the entrance fee and tuition fee will be announced in the documents related to the entrance procedures to be sent in late August. The information about the application for waiver and deferment is available at the Financial Support Section, Student Support Division, Education and Student Support Department, Tohoku University.

(Kawauchi-Kita Campus, Education, and Student Support Center, 1F, Window 4, Tel: 022-795-7816, Open from 8:30 to 17:15)

For more information, please visit the Tohoku University website.

Tohoku University website (Entrance and tuition fee waivers and other information):

<https://www2.he.tohoku.ac.jp/menjo/>

## 7. Time of Enrollment

The date of enrollment of successful applicants is October 1, 2026.

## 8. Expenses Required at the Time of Enrollment

Successful applicants are required to pay the following admission fees by the specified deadline.

- (1) Entrance fee: 282,000 yen (expected)
- (2) Tuition for the first semester 267,900 yen (535,800 yen per year) (expected)

Note 1: The amounts shown above are estimated amounts. In the event of a revision to the admission fee or tuition fees, the new amounts will apply from the time of the revision.

Note 2: Students enrolled in programs eligible for the "Waivers for Exceptional Students" are exempt from tuition and admission fees.

For details, please refer to the website below.

<https://c.bureau.tohoku.ac.jp/gakusei-shien/menjo/yuusyusya-e/>

Note 3: The details of the payment of the entrance fee and tuition fee will be provided in the enrollment procedure documents, which will be sent in late August. The information about the application for waiver and deferment is available at the Financial Support Section, Student Support Division, Education and Student Support Department, Tohoku University.

(Kawauchi-Kita Campus, Education, and Student Support Center, 1F, Window 4, Tel: 022-795-7816, Open from 8:30 to 17:15)

For more information, please visit the Tohoku University website.

Tohoku University website (Entrance and tuition fee waivers and other information):

<https://c.bureau.tohoku.ac.jp/gakusei-shien/menjo/>

## 9. Long-Term Course Program

Those who wish to obtain a Ph. D. degree in life science by systematically completing the educational program over a certain period, exceeding the standard course length of three years in the Doctoral Degree Program, due to special reasons ((1) full-time employees of companies or those who run their businesses, (2) those who need to take care of childbirth, childcare, or nursing care, etc., (3) other students who have been approved by the Graduate School) may be permitted to enroll as a long-term course student by submitting the required application at the time of enrollment procedures based on the notice of enrollment procedures that will be sent to successful applicants. The duration of study cannot exceed six years, but students may request to shorten the approved period of study midway through their studies.

Education and research guidance will be provided using the regular curriculum and class schedule.

The annual tuition fee for long-term course students is the amount obtained by multiplying the annual tuition fee for general students by the number of years of the standard course of study (3 years) and dividing it by the number of years of study permitted for long-term course students.

For reference, the annual tuition fee from April 2025 is as follows.

- Annual tuition for general students with a standard term of study of 3 years: 535,800 yen
- Annual tuition fee for students with 4 years of study permitted: 401,850 yen
- Annual tuition fee for students with 5 years of study permitted: 321,480 yen
- Annual tuition fee for students with 6 years of study permitted: 267,900 yen

## 10. Handling of Personal Information

(1) Personal information collected by Tohoku University is strictly protected in accordance with the "Act on the Protection of Personal Information (Act No. 57 of 2003)" and other laws and regulations, and is handled in accordance with the "Personal Information Protection Regulations of Tohoku University National University Corporation" and other related regulations of Tohoku University for the protection of personal information.

(2) Personal information such as exam results used for admission selection will be used for the following purposes: selection of applicants, admission procedures, pre-admission education, follow-up surveys, student support after admission (scholarships, tuition waiver, health care, etc.), educational purposes such as academic guidance, and tuition related matters, as well as for surveys (improvement of entrance examinations, research, analysis of application trends, etc.) and research. (For admitted students, this includes post-admission analysis of personal information.)

(3) In some cases, work related to admissions and academic affairs may be performed by companies contracted by the University (hereinafter referred to as "trustee"). In the event that all or part of personal information is provided to a trustee company for outsourcing, necessary measures will be taken to ensure that the information is handled appropriately in accordance with the "Personal Information Protection Regulations of Tohoku University National University Corporation" and other relevant regulations of Tohoku University.

(4) By applying to the Graduate School, applicants are considered to have agreed to the above statement.

## 11. Other

(1) Application documents and examination fees cannot be returned.

(2) Consultations are available for those who require special consideration for entrance examinations and academic study, so please contact the Academic Affairs Section of the Graduate School of Life Sciences by Friday, April 17, 2026, if needed.

(3) For inquiries about the Graduate School of Life Sciences entrance examination, please refer to the following contact information.

<p>1-1-2 Katahira, Aoba-ku, Sendai 980-8577, Japan Academic Affairs Section, Graduate School of Life Sciences, Tohoku University TEL +81-22-217-5706      E-mail lif-kyom@grp.tohoku.ac.jp</p>
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(4) Below you will find the Graduate School of Life Sciences website regarding the admissions process. Please check this page from time to time for the latest information. (Q&A and other information is also available.)

<https://www.lifesci.tohoku.ac.jp/admission/>

March 2026

Graduate School of Life Sciences,

Tohoku University

## 12. List of Fields of Study for which Students are Accepted (including faculty members and research contents)

### 1) Department of Integrative Life Sciences

Course	Field of Study and Faculty Members	Research Content
Brain and Nervous System	<b>Neuroethology</b> Professor ○TANIMOTO Hiromu Associate Professor ○KOGANEZAWA Masayuki Assistant Professor HUANG Tzu Ting	We investigate neural mechanisms underlying a wide array of behavior using genetic manipulation of targeted neurons. Our favorite model animals are fruit flies and jellyfish. Behaviors of our interest include associative learning, feeding, sexual behavior, and alcohol preference. <a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-18215.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-18215.html</a>
	<b>Molecular Ethology</b> Professor ○TAKEUCHI Hideaki Assistant Professor KAJIYAMA Towako	We aim to elucidate the operating principles of neural mechanisms involved in social cognition and behavioral selection in animals. We construct social behavior experimental systems mainly using medaka fish and employ next-generation sequencing, mutant creation, and genetic modification technology to identify genes and neurons involved in behavior. <a href="https://sites.google.com/view/molecular-ethology-laboratory/english">https://sites.google.com/view/molecular-ethology-laboratory/english</a>
	<b>Brain Development</b> Professor ○ABE Kentaro Assistant Professor AOKI Sho	We study the mechanisms underlying plastic change of the brain according to a variety of postnatal experiences such as social interaction, lifestyles, and diseases. For our research, we apply techniques in molecular biology, behavioral analysis, <i>in vivo</i> live imaging on mice, songbirds, and cell cultures as model systems. <a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45397.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45397.html</a>
	<b>Systems Neuroscience</b> Professor ○TSUTSUI Ken-Ichiro HOSHINO Ayuko Associate Professor ○OHARA Shinya	We investigate sensory, reward, memory, and executive functions and their underlying neural mechanisms by combining various state-of-the-art techniques, such as electrophysiology, molecular biology, and computational analytics and modeling. As experimental subjects, we use human and non-human primates as well as rodents. <a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2592.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2592.html</a>

Cellular Network	<p><b>Membrane Trafficking Mechanisms</b>  Professor  ○FUKUDA Mitsunori  Assistant Professor  KASAHARA Atsuko</p>	<p>Our lab mainly focuses on the Rab protein, which acts as a traffic controller, to understand the molecular mechanisms of membrane traffic that underlies various cellular events such as epithelial polarity formation, exosome secretion, neurotransmission, melanosome transport, and autophagy.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2582.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2582.html</a></p>
	<p><b>Developmental Dynamics</b>  Professor  ○SUGIMOTO Asako  Assistant Professor  HARUTA Nami</p>	<p>Our goal is to elucidate the principles of regulation of cellular dynamics during development and its evolutionary processes. Using several nematode species as model systems, we take an integrated approach that combines molecular genetics, cell biology, biochemistry, and functional genomics. Current research topics include 1) tissue-specific regulation of microtubule dynamics, 2) evolution of the reproductive system, and 3) development of novel chromosome engineering technologies.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2580.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2580.html</a></p>
Cellular Network	<p><b>Organelle Pathophysiology</b>  Professor  ○TAGUCHI Tomohiko  Assistant Professor  KUCHITSU Yoshihiko</p>	<p>Intracellular organelles cooperatively regulate cellular homeostasis, proliferation, and differentiation, through a continuous exchange of soluble and membrane-bound molecules via membrane trafficking and/or membrane contact transfer. A failure in organelle cooperation often results in various human diseases. Our laboratory uses methods in biochemistry, cell biology, and molecular biology to identify novel organellar proteins and lipids. With these methods, we aim to unveil novel functions of organelles and the molecular mechanisms that regulate organelle cooperation.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45407.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45407.html</a></p>
	<p><b>Super-Network Brain Physiology</b>  Professor  ○MATSUI Ko  Assistant Professor  IKOMA Yoko</p>	<p>The local brain environment affects how the neuronal circuit operates. Glial cells in the brain may have a pivotal role in controlling the neuronal information properties. Using in vivo fiber photometry, optogenetics, and acute patch-clamp electrophysiological techniques, we explore the realm of mind-body interface. Interactions between neurons, glia, vascular, and other cellular network of networks constitute the function of our mind.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45398.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45398.html</a></p>

Developmental Regulation Network	<b>Cancer Biology</b> Professor ○CHIBA Natsuko Assistant Professor YOSHINO Yuki FANG Zhenzhou	Accumulation of gene mutations in oncogenes and tumor suppressor genes causes cancer. We elucidate the regulatory mechanism of cell division and DNA damage response by cancer-related molecules. Furthermore, we are trying to develop methods to diagnose and treat cancer by elucidating the carcinogenic mechanism caused by the functional failure of cancer-related molecules.  <a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2586.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2586.html</a>
Cooperative faculties	<b>Systems Neurophysiology</b> Professor ○TAKAHASHI Mayu	We rely on visual input for about 80% of our sensory information. To accurately capture visual targets at the fovea of the retina, the brain employs five distinct types of eye movements. Our goal is to elucidate the neural transformation mechanisms from visual input to eye movement output—specifically, where and how the brain generates precise eye movements—using physiological and anatomical approaches primarily in non-human primates.  <a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45430.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45430.html</a>
	<b>Molecular Oncology</b> Professor ○TANAKA Kozo	Chromosomal instability, a condition in which chromosome missegregation occurs at high rates, underlies age-related diseases such as cancer and neurological disorders. Our goal is to reveal how chromosomal instability occurs and how it is related to the pathophysiology of these diseases in order to contribute to their prevention and treatment. Using culture cells and mice and various technics such as live-cell imaging, biochemical analysis, genetic and epigenetic analysis, we aim to understand these mechanisms from the molecular to the organismal level.  <a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45400.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45400.html</a>
	<b>Immunobiology</b> Professor ○OGASAWARA Koetsu	The immune system is involved in many diseases, including cancer, allergies, infectious diseases, and autoimmune diseases. We will clarify immune responses through immune repertoire analysis and receptor analysis using the latest equipment, such as flow cytometry and next-generation sequencers. We will then use the latest techniques, such as gene transfer and genome editing, to create and analyze cell lines and experimental animals to understand the target molecules from the molecular level to the individual level. Furthermore, we aim to create artificial antibodies and TCR-T artificial cells and develop new therapeutic medicines.  <a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45426.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45426.html</a>

	<p><b>Biological Interactions</b> Professor ○KAWAOKA Shinpei</p>	<p>Our laboratory aims to understand diverse interactions within and around biological systems through the following three research themes:  (1) Mechanisms by which cancer disrupts organismal homeostasis (tumor–host interactions)  (2) Regulatory roles of non-coding genomic regions in metabolism, immunity, and aging (molecular interactions)  (3) Effects of daily activities and social environments on human biology (environment–human interactions)  To address these questions, we integrate multi-layered approaches including bulk, single-cell, and spatial transcriptomics, metabolite and cytokine profiling, electroencephalography, and psychological assessments, aiming to achieve a comprehensive and integrative understanding of biological interactions across multiple scales.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory.html?id=45438">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory.html?id=45438</a></p>
	<p><b>Brain Aging</b> Professor ○SATO Akiko</p>	<p>As we age, the brain undergoes functional decline, a process known as “brain aging.” Recent studies suggest that brain aging is not only a consequence of aging itself, but may also play a determining role in lifespan. We aim to deepen our understanding of brain aging at the molecular to tissue levels and to elucidate the role of the brain in regulating aging and lifespan in mammals.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory.html?id=45439">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory.html?id=45439</a></p>

For information regarding prospective supervising faculty members in each field, please contact the faculty members marked with a circle (○).

Faculty members marked with an asterisk (\*) are expected to retire or transfer due to mandatory retirement, expiration of appointment, or other reasons within the next few academic years. Even if a prospective supervising faculty member is scheduled to retire or transfer within the student’s standard period of enrollment, the student may still be admitted, provided that an appropriate supervisory structure is arranged thereafter. When applying, please consult thoroughly in advance with the faculty member you wish to be supervised by regarding the research supervision system throughout your standard period of enrollment, and submit your application only after obtaining mutual agreement.

## 2) Ecological Developmental Adaptability Life Sciences

Course	Field of Study and Faculty Members	Research Content
Biological Dynamics	<b>Organ Morphogenesis</b> Professor ○TAMURA Koji ○KURANAGA Erina Assistant Professor UESAKA Masahiro	We investigate the mechanisms underlying morphogenesis in vertebrate limb/fin development and regeneration as model systems. Also, we seek to elucidate the evolution of developmental programs that diversify vertebrate morphology through comparative developmental experiments, as well as genomic, transcriptomic, and epigenomic comparisons.  <a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2589.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2589.html</a>
	<b>Plant Cell Dynamics</b> Professor ○UEDA Minako Assistant Professor KIMATA Yusuke MATSUMOTO Hikari	We aim to understand what happens inside plant cells and how these processes lead to plant development. We focus on the cells that play a central role in plant body formation, such as the zygote, and perform high-resolution live imaging to reveal intracellular dynamics and genetic analysis to identify regulatory mechanisms.  <a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45415.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45415.html</a>
	<b>Plant Development</b> Professor ○KYOZUKA Junko Assistant Professor TERANISHI Mika	          <a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-40745.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-40745.html</a>
	<b>Plant Evolution Dynamics</b> Professor ○YASUI Yukiko	Our goal is to understand how diverse plants have evolved at the molecular level. Specifically, we focus on the sexual reproductive systems and environmental responses of bryophytes and investigate how these traits have evolved through chromosomal and functional genomic approaches. We also integrate comparative genomic analyses and fieldwork into our research.  <a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory.html?id=45434">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory.html?id=45434</a>
	<b>Environmental Genetics</b> Professor ○OOKUMURA Misako	The environment surrounding an organism influences a wide range of traits, including behavior, physiology, and development. We aim to elucidate the molecular and neural mechanisms by which animals sense environmental information, integrate multiple cues, and ultimately determine their phenotype.  <a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory.html?id=45435">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory.html?id=45435</a>

	<p><b>Plant Sensory and Developmental Biology</b> Associate Professor ○FUJII Nobuharu.</p>	<p>Our research is aimed at understanding the relationship between plant growth and environmental cues such as water and gravity. Important findings include that plant roots show hydrotropism in response to moisture gradients, which together with gravitropism plays an important role in regulating root growth orientation to efficiently obtain water. We use physiological and genetical analyses to understand regulatory mechanisms of these processes.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2555.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2555.html</a></p>
	<p><b>Adaptive Morphology</b> Assistant Professor ○ANDO Toshiya</p>	<p>The mechanisms that build the sophisticated body forms—adaptive morphologies—that life has acquired over four billion years of evolution are encoded in the genomes. How has life on Earth altered genome sequences to evolve such sophisticated forms? We decipher the traces of environmental adaptation embedded in the genomes of insects with diverse morphologies, as well as the ways in which they deviate from preexisting developmental systems. Through this, we seek to reconstruct and understand the evolution of adaptive morphology in the laboratory using genome engineering technologies.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory.html?id=45436">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory.html?id=45436</a></p>
Ecological Dynamics	<p><b>Functional Ecology</b> Professor ○HIKOSAKA Kouki Assistant Professor KAJINO Hirofumi</p>	<p>We study ecology of plants mainly by analyses of plant functions such as photosynthesis, resource acquisition and use, and stress responses. Recently, our interests are (1) functional differentiations in plant traits, (2) remote sensing of plant functions, (3) field ecology for forests and moorlands and (4) modeling of plant functions.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2548.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2548.html</a></p>
	<p><b>Ecological Integration</b> Professor ○KONDOH Michio ○FUJITA Kaori (C) Assistant Professor ISHIKAWA Kota OTA Hiroshi (C)</p>	<p>Ecosystems are vast complex systems driven by diverse organisms interacting with one another. Armed with mathematical and statistical models, we aim to grasp the essence of various ecological phenomena and theoretically elucidate the common principles underlying them. Simultaneously, we pioneer new research fields enabling the construction of nature-positive societies and the prediction, control, and design of ecosystems.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2553.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2553.html</a></p>
	<p><b>Symbiosis Genomics</b> Professor ○SATO Shusei Associate Professor ○MITSUI Hisayuki Assistant Professor HANANO Shigeru</p>	<p>Our research targets are plant-microbe interactions, based on “symbiosis” in the narrow sense, and environmental interactions, based on “symbiosis” in the broad sense. We aim to explore complex interrelated networks of organisms and their surrounding environments by using genomics approaches, such as population and comparative genomics.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45414.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45414.html</a></p>

	<p><b>Macroecology</b> Associate Professor ○KASS, Jamie M. Assistant Professor MIRANDA Everton</p>	<p>We conduct research using big data and large-scale analyses to answer pressing questions about biodiversity, which is declining due to human-driven global change. To do this, we employ geospatial analysis and statistical modeling to predict and map species' ranges and biodiversity over space and time. Research applications include range movement due to climate change, alien species invasion risk, ecosystem service provisions, and conservation prioritization. We also develop programming tools to advance macroecological analyses.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/research/fields/laboratory.html?id=45417">https://www.lifesci.tohoku.ac.jp/research/fields/laboratory.html?id=45417</a></p>
	<p><b>Watershed Ecology</b> Associate Professor ○UNO Hiromi Assistant Professor FAULKS, Leanne Kay MAKINO Wataru</p>	<p>Nature consists of various landscape elements including forests, rivers, ponds, wetlands and the ocean. These elements are interconnected through movements of water, animals, and other materials. We study ecosystem processes and how animals live in watershed ecosystems through field observations, surveys, and experiments. By studying how biota live and interact with each other in natural ecosystems, we aim to better understand nature and provide essential foundational information for humans to better coexist with nature.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45420.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45420.html</a></p>
Biodiversity Dynamics	<p><b>Plant Diversity and Evolution</b> Professor ○MAKI Masayuki * Assistant Professor OHYAMA Motonari ITO Takuro</p>	<p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory.html?id=2552">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory.html?id=2552</a></p>
	<p><b>Marine Biodiversity</b> Professor ○KUMANO Gaku ○KONDO Michio (C) Associate Professor ○MINOKAWA Takuya Assistant Professor IWASAKI Aiko MORITA Shumpei</p>	<p>Focusing on various kinds of marine animal inhabitants around Asamushi, we research animal development such as germline development, tissue/organ morphogenesis and cell differentiation in relation to animal diversity and evolution, as well as morphologies of rarely studied animals at their critical developmental stages. We also research the distributions, community structures and diversities of marine organisms, such as benthos, to determine their biological interactions and relationships with abiotic factors.</p> <p><a href="http://www.biology.tohoku.ac.jp/lab-www/asamushi/english.html">http://www.biology.tohoku.ac.jp/lab-www/asamushi/english.html</a></p>
Eco-Socio Dynamics	<p><b>Ecosystem Functions</b> Visiting Professor ○TAYASU Ichiro Visiting Associate Professor ○ISHII Reichiro</p>	<p>We study ecosystem functions, evaluation of ecosystem services, and response mechanisms of ecosystems to global environmental change through analysis of the structure and dynamics of biological communities using stable isotope approaches and modeling techniques.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45406.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45406.html</a></p>

Cooperative faculties	<b>Systems Bioinformatics</b> Professor ○KINOSHITA Kengo	As is the case for next generation sequencing, experimental data are increasing year by year. These data contribute to the elucidation of life science only when they are analyzed correctly and made into information. In this laboratory, we conduct research on data-driven bioinformatics that analyzes vast amounts of life science-related data, including genomics, by making full use of data-science methods such as machine learning and statistical analysis.  <a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45401.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45401.html</a>
	<b>Human Evolution</b> Professor ○SANO Katsuhiko	We study human evolution based on analyses of macroscopic and microscopic traces on Paleolithic artifacts left by <i>Homo erectus</i> , Neanderthals, Denisovans, and <i>Homo sapiens</i> . Our research relies on experimental traceology and field works, including excavations and surveys. Experimental traceology allows us to reconstruct past human behaviors, such as hunting, butchering, hide-working, and processing of organic materials, which eventually will lead to a better understanding of how and when humans developed their cognition and technologies through time.  <a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45427.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45427.html</a>

For information regarding prospective supervising faculty members in each field, please contact the faculty members marked with a circle (○).

Faculty members marked with an asterisk (\*) are expected to retire or transfer due to mandatory retirement, expiration of appointment, or other reasons within the next few academic years. Even if a prospective supervising faculty member is scheduled to retire or transfer within the student's standard period of enrollment, the student may still be admitted, provided that an appropriate supervisory structure is arranged thereafter. When applying, please consult thoroughly in advance with the faculty member you wish to be supervised by regarding the research supervision system throughout your standard period of enrollment, and submit your application only after obtaining mutual agreement.

\* Professor Masayuki Maki is scheduled to retire in March 2028.

### 3) Molecular and Chemical Life Science

Course	Field of Study and Faculty Members	Research Content
Chemical Biology	<b>Analytical Bioorganic Chemistry</b> Professor ○ARIMOTO Hirokazu Assistant Professor TAKAHASHI Daiki	The Arimoto Group studies small molecules that contribute to human healthcare. We have developed AUTAC degraders that selectively degrade cytoplasmic materials via autophagy, the removal of "dysfunctional mitochondria, protein aggregates, and pathogens" utilizing AUTAC technology may contribute to disease and aging control. We are also developing antimicrobial agents targeting vancomycin-resistant strains. We utilize a variety of chemical and biological techniques, including eukaryotic and bacterial cell culture, biochemistry, molecular biology, and organic synthesis.  <a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-7811.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-7811.html</a>
	<b>Biostructural Chemistry</b> Associate Professor ○UEDA Hirofumi Assistant Professor UMEHARA Atsushi	Our research focuses on the total synthesis of alkaloids with complex and unique molecular architectures, as well as the development of innovative synthetic methodologies. Through the concise synthesis of molecules relevant to drug discovery and the synthesis of artificial biologically active compounds, we aim to contribute to the advancement of life sciences.  <a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory.html?id=45437">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory.html?id=45437</a>
	<b>Bioactive Molecules</b> Professor ○ISHIKAWA Minoru Assistant Professor TOMOSHIGE Shusuke	We study novel strategies that employ methods of organic chemistry, molecular biology and cellular biology to regulate disease-related proteins. One example is PROTAC (proteolysis-targeting chimera) which induces the degradation of a target proteins by hijacking the ubiquitin-proteasome system. Our research focuses on developing PROTACs for the treatment of neurodegenerative diseases.  <a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45409.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45409.html</a>
	<b>Molecular and Cellular Biology</b> Professor ○OHASHI Kazumasa Associate Professor ○YASUMOTO Ken-ichi Assistant Professor CHIBA Shuhei	Our research focuses on how cells sense and respond to the external environment. We aim to elucidate the molecular mechanisms that regulate cell morphology, motility, growth, differentiation, and the organization of cell populations in mammalian cells by sensing mechanical stresses such as stiffness and force, exerted by the external environment. We also seek to elucidate the molecular mechanisms of the cellular stress response.  <a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2520.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2520.html</a>
	<b>Applied Biological Molecular Science</b> Professor ○TANAKA Yoshikazu	We clarify the structural basis of molecular mechanisms in biopolymers, primarily proteins, and aim to develop new technologies through the application of their unique molecular characteristics.  <a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2518.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2518.html</a>

Molecular and Network Genomics	<p><b>Microbial Genetics and Evolution</b>  Professor  ○NAGATA Yuji  Associate Professor  OTSUBO Yoshiyuki*  Assistant Professor  KISHIDA Kouhei</p>	<p>Some bacteria can degrade anthropogenic pollutants. We aim to comprehensively understand how such bacteria rapidly adapt and/or evolve in response to environmental changes by using microbiological, molecular genetics, molecular biological, protein engineering, cell biological, genomic, and ecological approaches. Additionally, we seek to develop new technologies to effectively utilize unexplored microbial functions.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45412.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45412.html</a></p>
	<p><b>Plant Reproductive System</b>  Professor  ○WATANABE Masao  Associate Professor  ○INABA Yasuko  Assistant Professor  HAYASHI Maki</p>	<p>During the evolutionary process, plants have developed various reproductive systems adapted to their environment by regulating the balance between selfing and outcrossing in "hermaphrodites" In our laboratory, we focus on self-incompatibility, one of the plant reproductive systems, and aim to elucidate the molecular mechanisms controlling selfing and outcrossing in plants using genetic and physiological methods.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45421.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45421.html</a></p>
	<p><b>Molecular Genetics and Physiology</b>  Professor  ○HIGASHITANI  Atsushi *</p>	<p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory.html?id=2550">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory.html?id=2550</a></p>
	<p><b>Evolutionary Genomics</b>  Professor  ○MAKINO Takashi  Associate Professor  ○SATO Atsuko  ICHINOSE Toshiharu(C)  Lecturer  YOKOYAMA Ryusuke  Assistant Professor  BESSHO Kanako  BESSHO Manabu(C)</p>	<p>Laboratories in Graduate School of Life Sciences website</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45408.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45408.html</a></p> <p>Visit the lab's website.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/evolgenomics/home-en/">https://www.lifesci.tohoku.ac.jp/evolgenomics/home-en/</a></p>
Multilevel Biomolecular Structure and Dynamics	<p><b>Molecular Analysis of Biological Functions</b>  Professor  ○TAKAHASHI Satoshi  Associate Professor  ○ARAKI Yasuyuki  Assistant Professor  ITOH Yuji</p>	<p>Proteins and RNAs perform various functions by folding into their specific structures. By using our home-built confocal microscopes, we aim to understand their dynamics, structure, and function. Recently, we are interested in the dynamics and function of proteins and RNA derived from SARS-CoV-2. (Takahashi, Itoh group)</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2519.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2519.html</a></p>

	<p><b>Biofunctional Chemistry and Nanobiotechnology</b>  Professor  ○MIZUKAMI Shin  Associate Professor  ○KOWADA Toshiyuki  Assistant Professor  NOVIANTI, Ira</p>	<p>We design and synthesize hybrid chemical probes composed of organic small molecules and proteins to develop technologies for visualizing biomolecular functions and physiological activities in living organisms and live cells, as well as for controlling cellular functions using light. Based on these technologies, we aim to elucidate the mechanisms of biological phenomena and diseases and to develop novel therapeutic strategies.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2526.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2526.html</a></p>
	<p><b>Structural Mechanism Research and Development</b>  Professor  ○YONEKURA Koji *  Associate Professor  ○HAMAGUCHI Tasuku *  Lecturer  KUROKAWA Hirofumi  Assistant Professor  IKEUCHI Ken</p>	<p>Our laboratory aims to achieve high-resolution and high-accuracy structural analysis of complex targets, ranging from organic compounds and proteins to organelles and cells, using cryo-electron microscopy. This involves developing technologies such as AI applications and the complementary use of X-ray free-electron lasers to elucidate the mechanisms of structure formation, stabilization, and functional expression.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45416.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45416.html</a></p>
	<p><b>Dynamic Structural Biology</b>  Professor  ○NANGO Eriko  Assistant Professor  FUJIWARA Takaaki  TAGUCHI Masahiko  KOJIMA Mariko</p>	<p>Targeting light-sensitive proteins and unique enzymes, we will elucidate the dynamic structures of proteins in action using the latest measurement techniques, including X-ray free-electron lasers and synchrotron radiation. Furthermore, we aim to create new protein molecule through rational design based on the obtained dynamic structural information.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45425.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45425.html</a></p>
	<p><b>De Novo Biomolecular Design</b>  Professor  TAKAHASHI Satoshi (C)  William F. DeGrado  Associate Professor  ○SOMIYA Masaharu</p>	<p>Our research focuses on the design of de novo proteins using computational approaches and AI models, as well as the analysis of their functions and their potential applications in medicine and industry. In particular, we are interested in de novo proteins that can manipulate biological membranes, with the goal of developing new strategies for intracellular drug delivery and applications in synthetic biology.</p> <p>(website, TBD)</p>

Genome Informatics	<p><b>Omic and Informatics</b>  Visiting Professor  ○IKEDA Kazutaka  Visiting Associate Professor  ○YAMAKAWA Hisashi</p>	<p>To elucidate various biological phenomena in plants and animals, we are developing technologies for omics analysis from genomic information to metabolites produced through the processes of transcription and translation. Furthermore, we aim to understand complex biological phenomena at the ecosystem level by analyzing the commensal bacteria and environmental DNA.</p> <p>Laboratories in Graduate School of Life Sciences website  <a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2549.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-2549.html</a></p> <p>Visit the lab's website:  <a href="https://www.kazusa.or.jp/en/">https://www.kazusa.or.jp/en/</a></p>
Cooperative faculties	<p><b>Chemical biology of Natural Product</b>  Professor  ○UEDA Minoru</p>	<p>We conduct research on natural products with biological activity. Our work focuses on receptors and signalling, as well as biosynthesis and metabolism of phytohormone-related compounds that exert potent effects on plants. We aim to achieve the chemical and biological control of biological systems.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45402.htm">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45402.htm</a></p>
	<p><b>Redox Biology</b>  Professor  ○MOTOHASHI Hozumi</p>	<p>Redox reactions play central roles in energy metabolism, signal transduction, and proteostasis. Our goal is to understand the pathogenesis of age-related diseases, such as cancers and chronic inflammation, from the viewpoint of redox regulation using biochemical and molecular biological approaches.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45404.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45404.html</a></p>
	<p><b>Bioorganic Medicinal Chemistry</b>  Professor  ○DOI Takayuki *</p>	<p>We study synthetic methods for biologically active natural products and their application to the rapid synthesis of analogues to elucidate structure-activity relationships and identify their target molecules. We aim to clarify the structural features essential for biological activity and to discover new potent compounds.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45403.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45403.html</a></p>
	<p><b>RNA Physiology</b>  Professor  ○WEI Fan-Yan</p>	<p>Our laboratory primarily focuses on the post-transcriptional modification of RNA in mammalian cells. We aim to elucidate the biological functions of RNA modifications in regulating energy metabolism, protein translation, and cell signaling, as well as to understand their roles in physiological regulation in vivo and disease development. We hope to apply RNA modification technology to establish novel disease biomarkers and contribute to drug discovery.</p> <p><a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45419.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45419.html</a></p>

<b>Functional chemical Proteomics</b> Associate Professor ○ SATO Shinichi	We develop unique protein labeling methods using organic chemistry, including nanoscale proximity labeling, tyrosine-selective labeling, and aggregated protein-selective labeling. Combined with mass spectrometry-based proteomics, we advance from biological understanding to drug discovery and diagnosis through original chemical tool development.  <a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45432.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45432.html</a>
<b>Dynamic structural biochemistry</b> Associate Professor ○ OKUMURA Masaki	We aim to elucidate the protein quality control system within the endoplasmic reticulum from the viewpoints of biochemistry, cell biology, and structural biology, and to elucidate the causes of diabetes and other related diseases. In particular, we explore the physiological significance of new compartments within the endoplasmic reticulum.  <a href="https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45433.html">https://www.lifesci.tohoku.ac.jp/en/research/fields/laboratory---id-45433.html</a>

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- \* Associate Professor OTSUBO Yoshiyuki appointment is scheduled to expire in September 2026.
- \* Professor HIGASHITANI Atsushi is scheduled to retire in March 2028.
- \* Professor DOI Takayuki is scheduled to retire in March 2029.
- \* Professor YONEKURA Koji appointment is scheduled to expire in March 2029.
- \* Associate Professor HAMAGUCHI Tasuku appointment is scheduled to expire in March 2029.

Notes: - Information about research in each laboratory of the Graduate School of Life Sciences, Tohoku University: <https://www.lifesci.tohoku.ac.jp/en/research/fields/>

- The campuses of the Graduate School are in Sendai City, Aomori City (Aomori Prefecture), Kyoto City (Kyoto Prefecture), and Kisarazu City (Chiba Prefecture). The Marine Biodiversity Field is based at the Asamushi Research Center for Marine Biology, part of the Graduate School in Asamushi, Aomori City, Aomori Prefecture. The Ecosystem Functions Field is located at the Research Institute for Humanity and Nature, Kyoto, Japan. The Omics and Informatics Field is situated at the Kazusa DNA Research Institute in Kisarazu, Chiba, Japan.