

2023 年度

Academic Year 2023

名古屋大学大学院生命農学研究科  
博士後期課程

学生募集要項

一般入試 [英語版]

2023 年 10 月入学

Guidelines for Admission to the Doctoral Program  
October 2023 Enrollment

名古屋大学大学院生命農学研究科  
Graduate School of Bioagricultural Sciences  
Nagoya University

The Graduate School of Bioagricultural Sciences is accepting online applications. Please prepare all items required for the online application, devices such as a computer connected to the internet and a printer, an email address, a portrait photo, and submit your application after confirming the payment method, documents to be submitted, etc.

Note that you will need to register for an account before applying, so ensure you have enough time to complete the application process. Important information about the examination and other related issues may be sent by the University to your registered e-mail address. Therefore, please use an e-mail address that you check on a regular basis and has little chance to be changed or deleted.

## 名古屋大学大学院生命農学研究科のアドミッション・ポリシー

### (1) 入学者受入れの方針

生命農学を探究するために必要な学力を有し、高い専門性を持った指導者や技術者として、知識と能力を社会に役立てようという志をもつ国内外の人材を求めています。

### (2) 選抜の基本方針

「生命農学関連専門科目の知識・理解力と論理的思考力・応用力」を学力検査によって、「英語能力」を外部試験成績によって評価します。また、研究能力を修士論文により評価します。さらに「志望する研究分野に対する明瞭な志向と研究への熱意」、および「その分野に関連する基本的な知識と理解力」を面接・口述試験によって評価し、入学者を選抜します。

#### 個人情報取り扱いについて

出願にあたって提供された住所・氏名・生年月日その他の個人情報は、入学選抜、合格発表、入学手続及びこれらに付随する事項並びに入学後の学務業務における学籍・成績管理を行うためのみに利用します。

また、取得した個人情報は適切に管理し、利用目的以外に使用いたしません。

#### Treatment of information on individuals (at Nagoya University)

Any information regarding individuals which has been obtained from application documents, shall be used for the purposes of notifications concerning the application in hand, entrance examinations, announcements of results of entrance examinations, enrollment procedures and any other items subsidiary to these situations. It will also be used for the administration of the school register and for academic records connected with student academic affairs after enrollment. Furthermore, any information obtained concerning individuals will be treated appropriately, and shall never be used for any reason other than its administrative purpose.

#### < Changes in examination schedule and procedures due to unforeseen circumstances >

The examination schedule and selection measures may be modified in the event of an outbreak of infectious disease or other unforeseen circumstances. Please check the website regularly for the latest notices, especially in the days preceding the application and examination periods.

- Website of Graduate School of Bioagricultural Sciences, Nagoya University  
(Admission Information)

<https://www.agr.nagoya-u.ac.jp/english/admission/index.html>

- Contact info:

Student Affairs Section, Graduate School of Bioagricultural Sciences,  
Nagoya University  
Tel (052)789-4967, 4299



The following provides information to applicants on admissions to the Doctoral Program, Graduate School of Bioagricultural Sciences, Nagoya University, beginning in October 2023

## 1. Requirements for applicants

Applicants must satisfy one of the following requirements by the day prior to the day of enrollment:

- (1) Applicants who have a master's degree or a professional degree.
- (2) Applicants who have obtained in a foreign country a professional degree equivalent to the master's degree of Nagoya University.
- (3) Applicants who have obtained a degree equivalent to a master's degree or a professional degree by taking correspondence courses offered in Japan by a foreign school.
- (4) Applicants who have obtained a degree equivalent to a master's degree or a professional degree in Japan, by completing one of the relevant courses at an educational institution that is recognized by the authorities of a foreign country as an institution offering graduate courses and is approved by the Ministry of Education, Culture, Sports, Science and Technology, Japan (MEXT).
- (5) Applicants who have completed a course of study at the United Nations University and have received a degree equivalent to a Master's degree at the United Nations University. The United Nations University refers to the university established by the United Nations General Assembly's resolution of December 11, 1972. The university is provided for under Paragraph 2 of Article 1 of the Act on Special Measures (Law No. 72, 1976) concerning the Implementation of the Agreement between the United Nations and Japan relating to the Headquarters of the United Nations University.
- (6) Applicants who have completed the curriculum of a foreign school, educational institution designated under criterion (4), or the United Nations University; have passed the equivalent of a basic skills review for doctoral thesis research; and have been recognized as having scholastic ability equivalent to or higher than that of persons who have a master's degree.
- (7) Applicants approved by the Minister of Education, Culture, Sports, Science and Technology (1994 Ministry Bulletin, Vol. 123).

Applicants must have either graduated from a university or completed a course of 16 years of formal education, followed by research for at least two years at a university or research institute. The results of this research must be recognized by the Graduate School of Bioagricultural Sciences, Nagoya University as the equivalent of a master's degree.

NOTE: See "**Candidates applying under requirement (7)**" on page 13.

- (8) Applicants who are recognized by this Graduate School to be equivalent in academic level to a graduate student with a master's degree or a professional degree.

NOTE: See "**Candidates applying under requirement (8)**" on page 14.

## 2. Academic Department/Laboratory offering doctoral programs and maximum number of enrollment

Department	Laboratory	Number to be admitted
Forest and Environmental Resources Sciences*	Resources Cycling in Pedosphere, Plant-Soil Systems, Forest Hydrology and Disaster Mitigation Science, Forest Ecology, Forest Protection, Forest Resource Management, Forest Resources and Society, Forest Chemistry, Biomass Resource Utilization, Wood Physics, Timber Engineering, System Engineering for Biology	A Several

Plant Production Sciences	Plant Physiology and Morphology, Plant Genetics and Breeding, Crop Science, Horticultural Science, Plant Pathology, Plant Immunology, Information Sciences in Agricultural Lands, Food Economics, Plant Gene Function, Agrigenome, Plant Genomics and Breeding, Tropical Bioresources, Genetic Information for Bioresources, Practical Studies in Africa, Practical Studies in Asia, Plant Epigenetics
Animal Sciences	Animal Genetics and Breeding, Genome and Epigenome Dynamics, Animal Morphology, Animal Integrative Physiology, Animal Reproduction, Animal Nutrition, Animal Production Science, Avian Bioscience, Fish Biology, Sericulture and Entomoresources, Applied Entomology
Applied Biosciences	Organic Chemistry, Bioactive Molecules, Chemical Biology of Natural Products, Polymer Chemistry, Food and Biodynamics, Applied Enzymology, Molecular Biotechnology, Molecular and Cellular Regulation, Molecular Bioregulation, Glyco-Life Science, Animal Cell Function, Animal Cell Physiology, Nutritional Biochemistry, Alimentary Neuroscience, Soil Biology and Chemistry, Applied Microbiology, Plant Signaling, Biochemistry, Molecular and Functional Genomics, Plant Cell Function, Plant Integrative Physiology, Plant Metabolic System, Metabolic Balance of Ecosystem

**Applicants must ask the Laboratory in which he/she wishes to study for study topics before application.**

**NOTE: See the attached “Laboratories, Areas of Research, and Staff.”**

\* Students who have been accepted in the Department of Forest and Environmental resource Sciences have the opportunity to participate in the Integrated Environmental course. This course was initiated in 2009 in collaboration with the Graduate School of Environmental Studies and offers education, guidance and research opportunities for suitable graduate students. Further information on this program is available from the Students Affairs Section in the Graduate School of Bioagricultural Sciences.

### **3. Application Periods and Procedures**

#### **Online Application Period**

**June 11 to 15:00 on June 25, 2023**

Please register application on Online Application System before submitting documents.

#### **When Submitting Documents by mail**

**Application Periods: June 27 to June 30, 2023 (documents must be postmarked by June 30)**

When submitting application documents by mail, please print out the “Address Sheet” in color via the online application system, attach it to an envelope, and send it so it arrives by the application deadline (documents must be postmarked by July 1) via registered mail.

Address: Student Affairs Section, Graduate School of Bioagricultural Sciences, Nagoya University

**When Submitting Documents by hand**

**Application Periods: June 27 to June 30, 2023**

**Open from 9:00 a.m. till 11:30 a.m. and from 1:30 to 4:00 p.m.**

When submitting application documents, please print out the “Address Sheet” in color via the online application system, attach it to an envelope, and hand in by the application deadline (by 16:00 on June 30, 2023).

Address: Student Affairs Section, Graduate School of Bioagricultural Sciences, Nagoya University  
Furo-cho, Chikusa-ku, Nagoya 464-8601

**4. Required documents for application**

(1)	Nagoya University Graduate School Application form/ Photograph Card	The application form and photograph card must be printed in color on a single-sided sheet of A4 sized paper from the online application system.  * The applicant must prepare and upload a portrait photo, that is front facing, includes the upper body, no hats or backgrounds, and has been taken within 3 months of the application.
(2)	Application form (Graduate School of Bioagricultural Sciences)	Download and fill out the prescribed form from the Graduate School website.
(3)	Academic Transcripts	Original copies of official transcript from the undergraduate school (including liberal arts) and the graduate school the applicant has attended.  * If they are not written in Japanese or English, please attach an English translation version.
(4)	Certificate of master’s degree or of being awarded a master’s degree*	* <b>Applicants who have graduated from a university in China</b> , should print the certificate issued by the Center for Student Services and Development (CSSD) and submit it along with the other application documents.  The details of this process can be checked at the CSSD website ( <a href="https://xwrz.chsi.com.cn/gateway">https://xwrz.chsi.com.cn/gateway</a> ). The issuance of certificates may take time, so applicants should start the process early.
(5)	TOEFL or TOEIC score sheet	See “ <b>7. Examinations</b> ”, Item 1 “Submission of score sheets for foreign language (English) examination” for details. Applicants exempted from the written examination through application qualifications do not need to submit these.

(6)	A photocopy of Master's Thesis (or its equivalent) and three copies of its summary (Japanese or English)	If the Master's Thesis (or its equivalent) has not been completed, three copies of its summary in around 1,500 words English must be submitted at the time of application.
(7)	Letter of approval for taking examination if applicants have a job, using the prescribed form.	Needed only for applicants working at a government/public office or a company. Download and fill out the prescribed form from the Graduate School website.
(8)	Personal History for Foreign Applicants	Download and fill out the prescribed form from the Graduate School website.
(9)	A photocopy of Residence Card (both sides).	Needed only for applicants without Japanese nationality, excluding those with official approval of permanent residency in Japan.
(10)	Declaration of applicable specific categories*	Download and fill out the prescribed form from the Graduate School website.

\*Regarding submission of "(10) Declaration of applicable specific categories"

In November 2021, in accordance with the clarification of the scope of control for "Deemed Exports" under the Foreign Exchange and Foreign Trade Act ("FEFTA"), some provision of sensitive technology to students by universities has become subject to control under the FEFTA.

- 1) Please submit a "Declaration of applicable specific categories" when applying to our graduate program. Please also submit the relevant evidence if you fall into one of the Categories 1 to 3.
  - employed by a foreign government/corporation: proof of employment
  - receiving scholarship from a foreign government/corporation: notice of scholarship award or application form
- 2) Students will also be required to submit a "Letter of confirmation" at the time of their admission.

## 5. Online Application Flow

# Web Application Flow

The web application flow is as follows.



## STEP

# 1

## Preparation

Prepare a computer and printer connected to internet (smartphone and tablet are not recommended).

Prepare \*required documents well in advance before application since it may take time to obtain them.

\*Required documents: ID photo data, certificates etc.  
For details, please check [the application guidelines](#) for the graduate schools you wish to enter.



## STEP

# 2

## Access the Application Site

From the application site ▶ <https://e-apply.jp/ds/nagoya-gs/>



## STEP

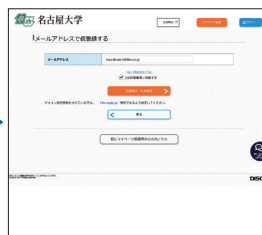
# 3

## MyPage Registration

Follow the instructions on the screen to enter the required information and register for MyPage. If you have already registered MyPage, please proceed to STEP4.



① If you register MyPage for the first time, please login from **My Page registration**.



② Register your email address and click **Submit a temporary registration e-mail**.



③ Click **Go to Login**.



④ The initial password and URL for main registration will be sent to the e-mail address.

\* Please check your e-mail settings as well to ensure that you are able to receive e-mails from @e-apply.jp domain.



⑤ On the login screen, enter the registered e-mail address and the "initial password" you received in ④, and click **Login**.



⑥ Change from the initial password to new password.



⑦ Enter the required personal information and click **Next**.



⑧ Confirm the personal information you entered and click **To register in this content**.





**STEP**  
**5**

# Pay the examination fee

## 1 Paying with a credit card

You can select and pay during the Web application.

[Credit cards available for the payment]

VISA, Master, JCB, AMERICAN EXPRESS, MUFG, DC, UFJ, NICOS



The payment can be completed during the Web application.

## 2 Paying by internet banking

(Only in Japan)

After your Web application is registered, the page will shift to the site of the bank you chose. Make the payment as instructed on the screen.

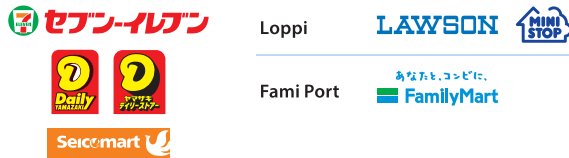
\*Required your bank account is registered for internet banking.

The payment can be completed online.

## 3 Paying at convenience stores (Only in Japan)

Write down the number displayed after your Web application is registered, and pay at any one of the following convenience stores.

- Pay at the cashier
- Pay using the terminal



## 4 Paying at ATMs with Pay-easy option

(Only in Japan)

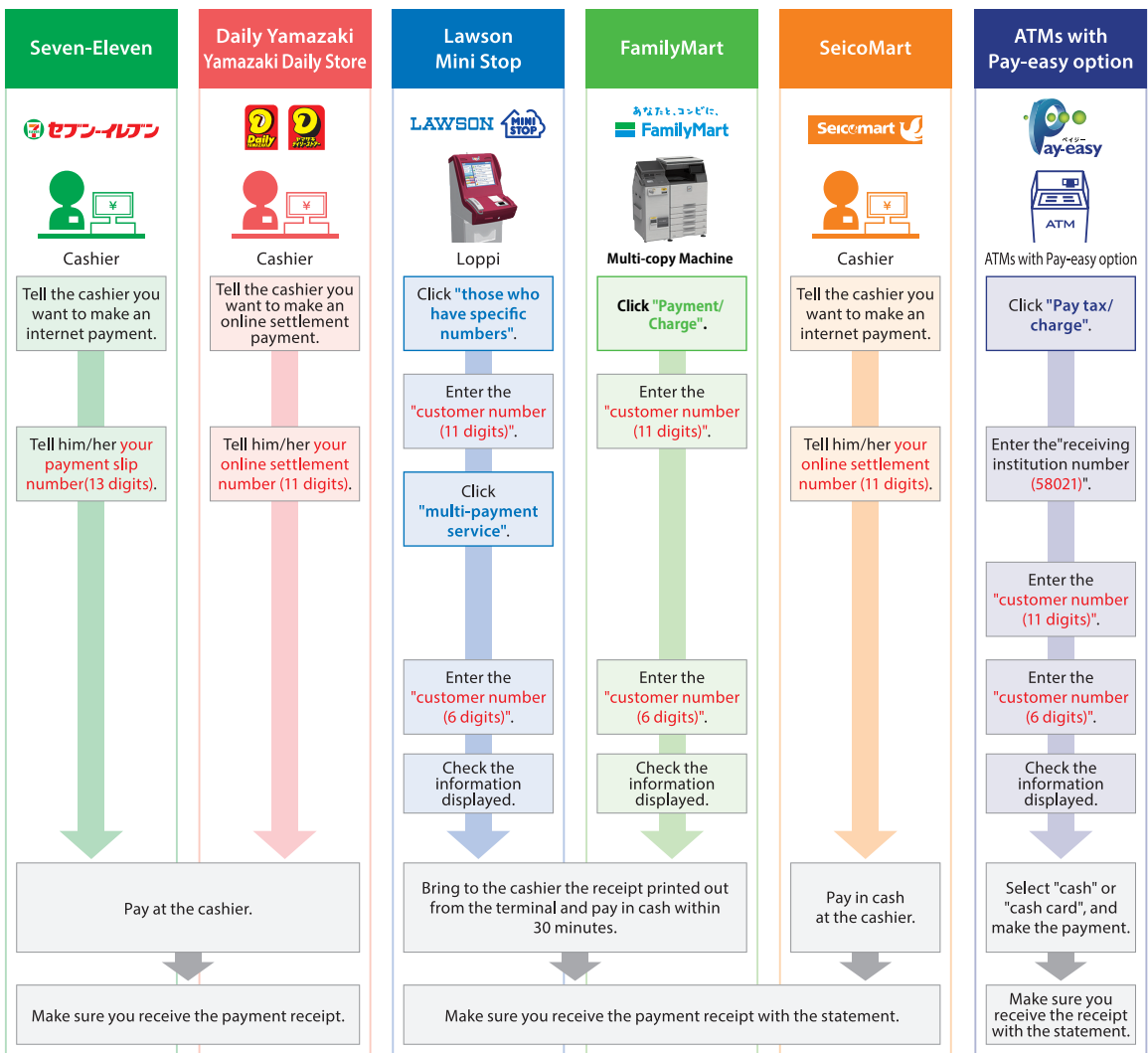
Write down the number displayed after your Web application is registered, and pay at any one of the ATMs with Pay-easy option as instructed on the screen.



\*Banks with Pay-easy option can be checked on the [Selection of Payment Method] page.

Enter necessary information as instructed on the screen of the terminal or ATM, check the information displayed, and make the payment.

### 3 Convenience stores



## STEP

# 6



## Send Required Documents by Post

Print the documents downloadable in color after the completing and paid your application and send them from post office by registered express mail (書留速達郵便) along with other required documents. If you are from outside Japan, send them by tracked post (EMS etc.) within the application period.

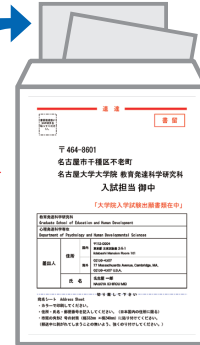
### Required documents

- Documents to be printed from the web applicaton
- Documents to be downloaded from the Graduate School WEB site and prepaed
- Certificated issued by your garaduated universities



One copy is required for each application registration. Please refer to **the application guidelines** for the required documents.

The mailing address of your application will be automatically printed on the Address Sheet. When sending from overseas, do not use this sheet.



Address sheet for submitting your application

Attach the sheet to a commercially available Kaku 2 envelope (24cm x 33.2cm).



If the application guideline specify other submission methods, please follow it.

\*The examination fee and necessary documents that have been received will not be returned in any way except for those specified it in **the application guidelines**.

## 〈 Application Completion 〉

### Note for Application

Your application will be completed only after you complete the web application, pay the examination fee, and send by post the required documents by the deadline.

Please make sure to check the deadline in **the application guidelines**.

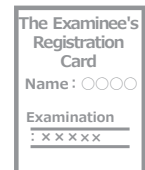
## STEP

# 7



## Print the Examinee's Registration Card

When the application is accepted and the examinee's registration card is able to be printed, you will be notified it through the e-mail address you have registered. If you do not receive the e-mail, please login to the Web application site by the day before the examination, print the card out on an A4 paper, single-sided in color, and bring this with you on the day of the examination.



## 6. How to Pay Entrance Examination Fee

### (1) Entrance Examination Fee: 30,000 JPY

MEXT scholarship recipients, as well as those who are expected to graduate from a master's program at Nagoya University are exempt from the application fee.

\*In addition to the application fee, a service charge (about 500 JPY) will be required.

### (2) Payment Period (Japan Standard Time)

June 11 to 15:00 on June 25, 2023

### (3) Payment Method

Please pay the entrance examination fee through one of the following methods. See “**5. Online Application Flow**” for details.

- Credit card
- Internet banking
- Convenience Store
- ATM with Pay-easy

### (4) Refunding of Entrance Examination Fee

We will not refund the paid entrance examination fee once the application documents have been received. However, we will refund the paid entrance examination fee if any of the following circumstances apply. Please note that any transfer fees required for the refund process will be deducted from the refunded amount.

- a) The entrance examination fee has been paid, but no application was made or the application was not accepted.
- b) The entrance examination fee has been paid twice.

**\*Entrance examination fee refunds will be done through bank transfer. If the refund is sent to an overseas bank account, the refunded amount will be greatly reduced, and it will take many days to complete the refund process, so please be careful when paying the entrance examination fee.**

For information on how to request a refund, please check the Nagoya University website (<http://www.nagoya-u.ac.jp/>) - Admissions - Graduate School Entrance Examination/Undergraduate Transfer Examination etc. - Regarding Entrance Examination Fees (in Japanese).

## 7. Examinations

### (1) Submission of score sheets for foreign language (English) examination (Applicants under requirement (7) or (8) must submit it.)

TOEFL or TOEIC scores will be used as the means of assessment for the foreign language (English) examination. Note: Applicants fulfilling requirements (1),(2),(3),(4),(5) or (6), are exempted.

#### 1. Examination Method

Submit the score sheet for the results of TOEFL, TOEIC or both. There will be no written examination. The score from either TOEFL or TOEIC will be calculated using the following method, and will be adopted as your foreign language (English) score.

If the applicant submits both TOEFL and TOEIC scores, these will be converted and the higher score will be adopted.

#### ■ For TOEFL iBT

English score =  $50 + (\text{TOEFL-iBT score} - 50) \times 5/3$  (converted scores of 100 points or higher will

- all be treated as 100 points)
- For TOEFL iBT Home Edition  
English score =  $50 + (\text{TOEFL-iBT Home Edition score} - 50) \times 5/3$  (converted scores of 100 points or higher will all be treated as 100 points)
- For TOEFL-ITP  
English score =  $\text{TOEFL-ITP score} \times 0.34 - 108$  (converted scores of 100 points or higher will all be treated as 100 points)
- For TOEIC  
English score =  $\text{TOEIC score} / 10$
- For TOEIC-IP  
English score =  $\text{TOEIC-IP score} / 10$

\*Any converted score of less than 50 points will count as a failing score. In this case, please be aware that the application fee is still non-refundable.

## 2. Eligible scores

Scores from the following can be submitted: TOEFL-iBT, TOEFL iBT Home Edition, TOEFL-ITP, TOEIC (limited to Listening & Reading Test), or TOEIC-IP (limited to Listening & Reading test). International applicants who have TOEFL-PBT scores should consult the Student Affairs Section before submitting documents.

## 3. Submission of score sheets

Score sheets must be submitted during the application period. (Submissions after the application period will not be accepted. Note that score sheets may not be changed after submission, without exception.)

- If you submit a score sheet from TOEFL iBT or TOEFL iBT Home Edition.

Please submit both (1) and (2) below.

(1) Official Score: "Institutional Score Report" or "Official Score Report"

(2) A copy of the "Test Taker (Examinee) Score Report" that is sent to the examinee.

Please note the following points when submitting the score sheets.

① For the "Institutional Score Report" or the "Official Score Report", please be sure to complete the designated procedures so that the reports can be sent from the ETS to Nagoya University within the application period (When making the procedures, please designate the appropriate Nagoya University's Institution Code "0312" and the Department Code. If there is no appropriate Department Code, designate "99".) Note that after the TOEFL examination, it takes about 6 to 8 weeks for the "Institutional Score Report" or "Official Score Report" to reach the designated recipient. There may be delays in arrival, so please take the TOEFL examination well ahead of time.

② If you submit the "Institutional Score Report", use only the "Test Date Scores". (You may not use My Best Score.)

③ Please submit a copy of the "Test Taker (Examinee) Score Report" with the application documents.

- If you submit a score sheet from TOEFL-ITP

Please submit an original of the "Test Taker's Copy of Score Report (light purple card)" with the application documents.

- If you submit a score sheet from TOEIC

Please submit an original of the "Official Score Certificate" with the application documents.

- If you submit a score sheet from TOEIC-IP

Please submit an original of the "Score Report" with the application documents.

#### 4. Period of validity of score sheets

Only scores for tests taken within 2 years of the month of the entrance examination (i.e. August 29, 2021 or later) will be accepted.

#### (2) Oral examination

Date: August 29, 2023 Time: one and half hours during 10:00 to 17:00

(or Date: August 30, 2023 Time: one and half hours during 9:00 to 12:00)

(Details will be notified on August 29)

#### Matter of Oral Examination

Fundamental knowledge in the target academic area in which the applicant wishes to study, research plan, master's thesis, etc., and proficiency of foreign language (English)

#### (3) Place of Examination

Graduate School of Bioagricultural Sciences,

Nagoya University (School of Agricultural Sciences)

500m eastward from the city bus stop "Nagoyadaigaku" or the subway station "Nagoyadaigaku",  
or 500m southward from the subway station "Higashiyama-koen"

### 8. Announcement of examination results

Date: around 10:00a.m., September 1, 2023

Place: Graduate School of Bioagricultural Science website: <https://www.agr.nagoya-u.ac.jp/>

NOTE: Applicants will also be notified by mail.

### 9. Enrollment Procedures

(1) Detailed enrollment procedures will be notified by mail beginning in September 2023.

(2) Registration fee: 282,000 JPY (expected)

(3) Tuition: 267,900 JPY per semester (535,800 JPY per year) (expected)

NOTE: In case of any revision in tuition, the new rate will be made effective on and after the date of revision.

(4) Registration date: September 14 / September 15, 2022 (scheduled)

### 10. Others

(1) The applicant cannot make any changes or ask for a refund after submitting the application form.

(2) Further notifications for the examination will be given on the notice board on the date of examination.

Examinees must be seated in the examination room 20 minutes before the examination starts.

(3) For applicants with disabilities or other special needs

Applicants with disabilities or other special needs that require reasonable accommodations and adjustments for taking the entrance examinations due to their disabilities or other special needs should submit the following documents to the Student Affairs Section, Graduate School of Bioagricultural Sciences, Nagoya University by June 1, 2023.

1) Application form for reasonable accommodations or adjustments: On A4 size paper in the format of your choice, please provide information regarding the condition of your disabilities or other special needs, which specific accommodations and adjustments are required for you to take the entrance exam and why they are necessary.

- 2) Medical certificate, any certificates of your disability (e.g., “Shogaisya-techo” in Japan), etc.: Applicants must submit Medical Certificates or other alternative documentation that provides detailed information regarding the limitation on a major life activity caused by the disabilities or other special needs, and provides sufficient justification for the requested accommodations or adjustments. (Copies acceptable)
- 3) Third Party Statements: Applicants must obtain and submit statements from third parties that are familiar with the applicant's disabilities or special needs and can attest to the resulting limitation on a major life activity and required accommodations (Observations and opinions from medical professionals, relevant faculty from the applicant's school, and other specialists)
- 4) Other Documents: Applicants may, if desired, submit additional documentation providing additional information regarding their disabilities or other special needs and the recommended accommodations or adjustments.

For inquiries regarding reasonable accommodations or adjustments for taking the entrance examination or while attending Nagoya University, please feel free to contact the Student Affairs Section, Graduate School of Bioagricultural Sciences, Nagoya University by the application deadline.

#### **11. For more information on the examinations, ask:**

Student Affairs Section,

Graduate School of Bioagricultural Sciences, Nagoya University

Furo-cho, Chikusa-ku, Nagoya 464-8601

TEL: (052) 789-4967(English), 4299(Japanese)

E-mail: [kyomu@agr.nagoya-u.ac.jp](mailto:kyomu@agr.nagoya-u.ac.jp)

<https://www.agr.nagoya-u.ac.jp/>

## Candidates Applying under Requirement (7)

### 1. Candidates applying under Requirement (7) must meet the following conditions:

By the day prior to the day of enrollment, applicants must have graduated from a university, followed by research for at least 2 years at a research institute. Applicants must also have published research papers, books, made research presentations, or hold patents recognized as the equivalent of a master's thesis or above.

### 2. Application for Certificate of Approval as Eligible Applicant.

Applicants under Requirement (7) must either submit or mail the following documents ①~⑨ by or on May 26, 2023 to the Student Affairs Section, Graduate School of Bioagricultural Sciences, Nagoya University. The set of documents, if mailed, should have "Application for Certificate of Approval as Eligible Applicant." written in red ink on the envelope, and be sent by registered mail.

Applicants will be notified of the results by June 23, 2023.

Documents required:

- ① Application Form for the application under Requirement (7)  
Download and fill out the prescribed form from the Graduate School website.
- ② Certificate of graduation from a university
- ③ Summary of research results.  
It should be made up in paper style by the applicant, with approx. 4,000 characters in Japanese (1,500 words in English). Download and fill out the prescribed form from the Graduate School website.
- ④ Bibliography  
Download and fill out the prescribed form from the Graduate School website.
- ⑤ Certificate of academic background  
Download and fill out the prescribed form from the Graduate School website. The form should be signed by the applicant's academic advisor or other proper authority.
- ⑥ Letter of recommendation written by the head or other proper authority of the belonging Institution. Download and fill out the prescribed form from the Graduate School website.
- ⑦ A copy of research papers, books, research presentations, or patents, etc.
- ⑧ Personal History for Foreign Applicants  
Download and fill out the prescribed form from the Graduate School website.
- ⑨ A return envelope to receive results of the application. Enclose a self-addressed envelope (12×23cm) with a 374 JPY stamp affixed.  
(If the applicant resides overseas, please enclose a sufficient International Reply Coupon (IRC) to cover the required return postage.)

### 3. Application Procedures

The candidates approved as Eligible Applicants can apply for admission to the Doctoral Program by submitting the set of documents specified on "4. Required documents for application".

When submitting application documents by mail, see "3. Application Periods and Procedures".

## Candidates Applying under Requirement (8)

### 1. Candidates applying under Requirement (8) must meet the following conditions:

Applicants under Requirements (8) must be recognized by the Graduate School of Bioagricultural Sciences, Nagoya University to be equivalent in academic level to a graduate student with a master's degree or a professional degree, and must reach 24 years old by the day prior to the day of enrollment.

\* Applicants who have graduated from any school in China must ask the Student Affairs Section, Graduate School of Bioagricultural Sciences for details.

### 2. Application for Certificate of Approval as Eligible Applicant.

Applicants under Requirement (8) must either submit or mail the following documents by or on May 26, 2023 to the Student Affairs Section, Graduate School of Bioagricultural Sciences, Nagoya University. The set of documents, if mailed, should have "Application for Certificate of Approval as Eligible Applicant." written in red ink on the envelope, and be sent by registered mail.

Applicants will be notified of the results by June 23, 2023.

Documents required:

- ① Application Form for the application under Requirement (8)  
Download and fill out the prescribed form from the Graduate School website.
- ② Reference material showing that the applicant is equivalent in academic level to a graduate student with a master's degree or a professional degree;  
\*Submit one or more relevant materials listed below. For example: 1) or3)
  - 1) Applicants who have graduated or will be graduating from a junior college, technical college, special school or other school:
    - Diploma or certificate of graduation/ expected graduation
    - Official transcript (academic record)
    - Syllabus
  - 2) Applicants who have technical/ professional career:
    - Certificate of employment, specifying its period and matter of tasks, and report of his/her career achievements prepared by the applicant (form not specified).
  - 3) Applicants with academic work:
    - Certificate of academic background  
Download and fill out the prescribed form from the Graduate School website. The form should be signed by the applicant's academic advisor or other proper authority.
    - Bibliography  
Download and fill out the prescribed form from the Graduate School website.
    - Summary of research results  
It should be made up in paper style by the applicant, with approx. 4,000 characters in Japanese (1,500 words in English). Download and fill out the prescribed form from the Graduate School website.
    - 4) Applicants with published research papers or books, research presentations, patents, etc.:
      - Any reference material showing each
  - ③ Others
    - Any material for examination purposes (e.g.: Letter of recommendation)
  - ④ Personal History for Foreign Applicants



Download and fill out the prescribed form from the Graduate School website.

- ⑤ A return envelope to receive results of the application. Enclose a self-addressed envelope (12cm×23cm) with a 374 JPY stamp affixed.

(If the applicant resides overseas, please enclose a sufficient International Reply Coupon (IRC) to cover the required return postage.)

### **3. Application Procedures**

The candidates approved as Eligible Applicants can apply for admission to the Doctoral Program by submitting the set of documents specified on “**4. Required documents for application**”.

When submitting application documents by mail, see “**3. Application Periods and Procedures**”.

## Laboratories, Areas of Research, and Staff

Department	Laboratory	Area of Research	Research Key Words	Staff			
				Professor	Associate Professor	Lecturer	Assistant Professor
1. Forest and Environmental Resources Sciences	1. Resources Cycling in Pedosphere	Cycles of carbon, nitrogen, and trace elements in pedosphere and related environments. Chemical structure, function, and dynamics of soil organic matter, in particular humic substances.	Soil organic matter, humic substances, black carbon, greenhouse gas, dissolved organic matter	WATANABE, Akira			
	2. Plant-Soil Systems	Studies on nutrient dynamics in forest ecosystems. Our specific focus is to evaluate forest health by disentangling tripartite interactions among plant, soil, and microbes.	biogeochemistry, coastal forests, forest soil science, Ground penetrating radar, plantation forests		TANIKAWA, Toko		
	3. Forest Hydrology and Disaster Mitigation Science	Research for elucidating hydrological cycle, sediment dynamics, and disaster vulnerability of local community in regional and watershed scales. Research and its social implementation for sustainable resources management is included.	hydrological processes in watersheds, biosphere-atmosphere interaction, human-nature interaction, disaster resilience and sediment dynamics	GOMI, Takashi	TANAKA, Takafumi		KOTANI, Ayumi
	4. Forest Ecology	Our laboratory covers a wide range of studies related to forest ecology, forest genetics, and forest ecophysiology. Especially structure, dynamics and functions in forest communities. Also genetic diversity, reproduction, ecophysiology, dry matter production and balance as well as theoretical modeling in tree populations.	Forest tree, Reproductive ecology, Population genomics, Molecular ecology, Conservation, Tropical forest	TOMARU, Nobuhiro	NAKAGAWA, Michiko	OGAWA, Kazuharu (Scheduled to retire in March 2024)	
	5. Forest Protection	Forest entomology focusing on insect-fungus and insect-plant interactions. Forest ecosystem conservation based on the management of biological communities.	Forest insects, Interactions among organisms, Forest pests, Arthropod communities, Forest microbes, Symbiosis		KAJIMURA, Hisashi	TOKI, Wataru	
	6. Forest Resource Management	Research on development of cutting edge measurement technology of forest, construction of theory concerning forest resource management, development of future planning and evaluation method of forest management.	Remote Sensing, GIS, Forest planning, Forest measurement, LiDAR	YAMAMOTO, Kazukiyo			
	7. Forest Resources and Society	Studies on forest management policy for realizing both forest conservation and improvement of local livelihoods, forest certification, participatory forest management, community forestry and timber procurement strategies of enterprise	Forest policy, National park, Community forestry, Ecotourism, Forest resource use	HARADA, Kazuhiro	IWANAGA, Seiji		
	8. Forest Chemistry	Organic chemical, biochemical, and analytical chemical studies on the formation process, structure, and advanced utilization of woody biomass.	woody biomass, plant cell wall, lignin, chemistry	FUKUSHIMA, Kazuhiko	AOKI, Dan		
	9. Biomass Resource Utilization	Isolation and structural elucidation, biosynthesis, distribution and utilization of wood extractives.	Wood extractives, Isolation and structural elucidation, Biosynthesis, Visualization, Chemical analysis		IMAI, Takanori		
	10. Wood Physics	Generation processes of growth stress and wood properties during tree growth, Growth and maturation of tropical plantation species, Analysis of reaction wood formation by molecular approach, Physical and mechanical properties of wood materials.	Cell wall, cellulose, secondary growth, growth stress, plantation resources	YAMAMOTO, Hiroyuki	YOSHIDA, Masato		
	11. Timber Engineering	Mechanical durability in structural use of wood and wood-based materials, Analysis of mechanical behavior in timber structure, Quality-of-material distribution and the plan for demand and supply of forest resources, Wood utilization in urban design.	Timber engineering, Strength, Failure and fatigue, Woodutilization, Woodurbanism	YAMASAKI, Mariko			ANDO, Kosei
	12. System Engineering for Biology	Studies on nondestructive measurement system and data science for biological resources.	Nondestructive measurement, Spectroscopy, Imaging analysis, Data science, Machine learning, Mechanical engineering	TSUCHIKAWA, Satoru	INAGAKI, Tetsuya		

\*\*\* Designated Assistant Professor

(as of April 1, 2023)

## Laboratories, Areas of Research, and Staff

Department	Laboratory	Area of Research	Research Key Words	Staff			
				Professor	Associate Professor	Lecturer	Assistant Professor
2. Plant Production Sciences	13. Plant Physiology and Morphology	Studies from both aspects of structure and function on functional differentiation of plant cells and tissues, and response and tolerance to environmental stresses.	C4 plant, Chloroplast, Electron microscope, Environmental stress, Rice, Salinity, Stress tolerance, Ultrastructure	TANIGUCHI, Mitsutaka	MITSUYA, Shiro		OI, Takao
	14. Plant Genetics and Breeding	Breeding, molecular genetical, molecular biological, and physiological researches related to the evolution, morphogenesis, development, and environmental stress tolerance of cultivated plant species.	Crop plants (rice, maize, wheat and soybean), Abiotic stress tolerance, Flooding, Root, Panicle, Molecular genetics, Molecular breeding,	NAKAZONO, Mikio	TAKAHASHI, Hirokazu		AGATA, Ayumi
	15. Crop Science	Physiological and ecological studies on crop production: nutrient acquisition and growth response to environment.	Crop productivity, Environmental stress, Nutrient acquisition, Sink-source relationship, Symbiosis	KONDO, Motohiko	YANO, Katsuya	SUGIURA, Daisuke	
	16. Horticultural Science	Physiological, biochemical, and molecular biological approaches to clarify the characteristics and growth of horticultural crops, i.e. flowers, vegetables, and fruit trees, to improve their quality and productivity.	Horticultural crops, Molecular breeding, Genome editing, Multi-omics, Metabolomics and metabolic engineering		SHIRATAKE, Katsuhiko		
	17. Plant Pathology	Physiological, biochemical and molecular-biological researches on defense mechanisms of plants against plant pathogens, and interactions of plant pathogens and beneficial environmental microorganisms with host plants. Development of biocontrol measures and understanding of its mechanisms.	Plant disease resistance, Elicitor, Plant-associated microbes, Plant and Fungal viruses, Biological control		TAKEMOTO, Daigo CHIBA, Sotaro		SATO, Ikuo
	18. Plant Immunology	Studies on the molecular mechanisms of plant immune response in plant-pathogen interactions. Development of a plant vaccine based on the mechanisms.	NADPH oxidase, ROS burst, MAP kinase, Plant immunity, Plant pathology		YOSHIOKA, Hirofumi		
	19. Information Sciences in Agricultural Lands	Studies to improve agricultural production by analyzing information from field (crop DNA sequences, morphology, physiological characteristics, yield, soil, environment, etc.) by means of informatics/ data science	Agricultural informatics, Soil and rhizosphere microbiome, Genetic diversity, Breeding, Field informatics	MURASE, Jun	DOI, Kazuyuki		NISHIUCHI, Shunsaku SAWADA, Kozue***
	20. Food Economics	Socioeconomic studies on food system, regional resource management and multifunctional roles of agriculture.	Agricultural Economics, Farm Management, Rural Resource Management, Food System	TOKUDA, Hiromi	TAKESHITA, Hironobu		MIURA, Satoshi
	21. Plant Gene Function	Studies on plant gene function and its application.	Rice, Stem elongation, Water tolerance, Molecular breeding	ASHIKARI, Motoyuki			NAGAI, Keisuke
	22. Developmental and Systems Plant Biology	Studies on genomic information for development of useful traits of rice and creation of novel plant regulators.	Rice, QTL, GWAS, GA, Structural biology	TSUJI, Hiroyuki	YAMAUCHI, Takaki		
	23. Plant Genomics and Breeding	Study on plant genomics and breeding to solve various problems of modern society, i.e. environment, energy, food problems, etc.	sorghum, energy crop, QTL, GWAS, heterosis	SAZUKA, Takashi			OKADA, Satoshi
	24. Bioindustry *No applications	Studies on plant grafting and systemic signaling in plants to improve plant resources for future sustainability.	Grafting, long distance signaling in plants, micro devices for plant science. GA, Structural biology	NOTAGUCHI, Michitaka		KUROTANI, Kenichi**	
	25. Tropical Bioresources	Screening of tropical plant resources and their utilization for environmentally friendly agriculture responding to diversification of food demand and climate change.	Crops (Sago palm, Rice, Cowpea), Cultivation technique, Environmental stress,	EHARA, Hiroshi			NAKATA, Mana
	26. Genetic Information for Bioresources	Studies on genetic information for useful traits of bioresources to aim utilization and application of regional resources and sustainable development through environmental conservation.	Genetics, Breeding, Rice, Abiotic stress, Stress avoidance	INUKAI, Yoshiaki			
	27. Practical Studies in Africa	Development of sustainable and appropriate technology for agricultural and forestry production, acclimation and dissemination of new resources and technologies, and social implementation based on research results in Africa	Africa, Crop, Cultivation management, Practical study, Rice		MAKIHARA, Daigo		
28. Practical Studies in Asia	Studies on agriculture and rural development including natural resources management in Asia for better livelihoods, poverty reduction and food security.	International Cooperation Official Development Assistance Agricultural and rural development		ITO, Kasumi			
29. Plant Epigenetics	Epigenetic analysis of abiotic stress tolerance in rice	Rice, epigenetics, abiotic stress, histone modification		CARTAGENA, Joyce Abad			

\*\*Designated Lecturer

\*\*\* Designated Assistant Professor

(as of April 1, 2023)

## Laboratories, Areas of Research, and Staff

Department	Laboratory	Area of Research	Research Key Words	Staff			
				Professor	Associate Professor	Lecturer	Assistant Professor
3. Animal Sciences	30. Animal Genetics and Breeding	Studies on the genetic basis of qualitative and quantitative traits in mammals and birds; evolutionary genetics research of animals using genetic engineering such as genome editing; evaluation, conservation and utilization of animal genetic resources; and development of new laboratory animal models for human disease and biological functions.	qualitative (Mendelian) traits, quantitative traits, evolutionary genetics, developmental animal genetic engineering, livestock resources, poultry, laboratory animal models	SUMIYAMA, Kenta	ISHIKAWA, Akira		YAMAGATA, Takahiro
	31. Genome and Epigenome Dynamics	Epigenetic regulatory systems for transposons and genes in vertebrates. Epigenome regulation during germ cell development. Genome-epigenome interactions during evolution. Mechanism of cancer cell growth inhibition by activation of transposons.	Epigenetics, Germ Cells, iPS cells, Transposable elements, Transgenerational Inheritance, Diabetes, Cancer	ICHIYANAGI Kenji			OHTANI, Hitoshi
	32. Animal Morphology	Formation and deformation of the traits in vertebrates. Viral endogenization and the roles of the viral-derived element in vertebrates. Transgenerational epigenetic inheritance (TEI).	morphology, molecular genetics, reproductive system, Vertebrates	HONDO, Eiichi			IIDA, Atsuo
	33. Animal Integrative Physiology	Understanding the regulatory mechanisms of circadian and seasonal rhythms in vertebrates. Development of transformative biomolecules that improve animal production and human health. Studies on physiological regulation of gene expression and release of growth factors in birds.	Seasonal Rhythm, Circadian Rhythm, Growth Hormone, Comparative Biology, Chemical Biology	YOSHIMURA, Takashi	OHKAWA, Taeko	KON, Naohiro**	TSUKADA, Akira NAKAYAMA, Tomoya*** CHEN, Junfeng***
	34. Animal Reproduction	Basic studies on the neuroendocrinological mechanism regulating animal reproduction and its application to animal production and drug discovery.	Gonadotropins, GnRH, Kisspeptin, Gonads, Brain, Neuroendocrinology	TSUKAMURA, Hiroko	UENOYAMA, Yoshihisa INOUE, Naoko		
	35. Animal Nutrition	Analysis of the nutritional factors and environmental factors for metabolic diseases (dyslipidemia and fatty liver etc.) in mammalian and avian species. Analysis of the uptake mechanism of biomolecules into avian eggs and its application to production of valuable protein.	Nutritional factors, Animal disease model, Metabolic diseases, Fatty liver, Egg production	MURAI, Atsushi			
	36. Animal Production Science	Studies on regulatory mechanism of physiological functions in ruminants and its utilization for animal production.	Reproduction, GnRH, Uterine function, Ovarian activity, Heat stress	OHKURA, Satoshi	MATSUYAMA, Shuichi NAKAMURA, Sho*		
	37. Avian Bioscience	Functional genomics-based identification of genes that control useful phenotypes of birds. Production of genetically manipulated birds for model animals and industrial use.	Animal model, Genetic resource, Biopharmaceutical production	NISHIJIMA, Ken-ichi			OKUZAKI, Yuya
	38. Fish Biology	Morphological, physiological, and behavioral studies of the brain, sensory receptors, motor systems, and peptidergic neurons in aquatic animals.	fish, nervous system, sensorimotor circuit, peptidergic neurons, behavior	YAMAMOTO, Naoyuki	ABE, Hideki		GOTO, Maki HAGIO, Hanako***
	39. Sericulture and Entomoresources	Molecular mechanisms of baculovirus infection, baculovirus-host interaction and antiviral responses in insects.	Insect pathology, Baculovirus infection, Antiviral response, Host range determination	IKEDA, Motoko			HAMAJIMA, Rina
	40. Applied Entomology	Studies on the development of insect pest management methodology via physiological and molecular approaches.	Insect hormone and pest management		MINAKUCHI, Chieka		

\* Designated Associate Professor

\*\* Designated Lecturer

\*\*\* Designated Assistant Professor

(as of April 1, 2023)

## Laboratories, Areas of Research, and Staff

Department	Laboratory	Area of Research	Research Key Words	Staff			
				Professor	Associate Professor	Lecturer	Assistant Professor
4. Applied Biosciences	41. Organic Chemistry	Bioorganic studies on naturally occurring organic molecules possessing novel structure and biological activity: development of new synthetic methodologies, total synthesis of natural products, elucidation and control of the biofunctions.	organic synthesis, natural products, chemical biology, molecular design	NISHIKAWA, Toshio			MIYASAKA, Tadachika
	42. Bioactive Molecules	Studies on identification, action mechanism, and application of bioactive molecules produced by plants and microorganisms. Mechanistic analysis and application of carbohydrate-binding small molecules.	natural products, antibiotics, carbohydrates, peptides		NAKAGAWA, Yu	KONDO, Tatsuhiko	
	43. Chemical Biology of Natural Products	Isolation, structure determination, synthesis, biosynthesis, and modes of action of bioactive natural products that regulate biologically and physiologically intriguing phenomena. Anesthetic substances from venomous mammals, and key substances for marine symbiotic relationships. Development of new analytical methods for target molecules using fluorescent probes.	natural products, chemical biology, chemical probe, mode of action, toxins, symbiosis	KITA, Masaki	TSUNEMATSU, Yuta		
	44. Polymer Chemistry	Studies on controlled syntheses and functions of biomaterials and medical polymers including artificial glycoconjugates, biofunctional polymers and environmentally friendly synthetic polymers.	Biomaterials, Biopolymers, Functional Polymers, Polymer Synthesis, Organic Synthesis	AOI, Keigo	NOMURA, Nobuyoshi		
	45. Food and Biodynamics	Chemical biology of electrophilic ligands, such as lipid peroxidation products and functional food molecules.	Oxidative stress, Covalent modification of proteins, Functional foods, Lifestyle-related diseases, Extracellular vesicles	SHIBATA, Takahiro			NAKASHIMA, Fumie
	46. Applied Enzymology	Mechanistic enzymology of flavin and pyridoxal enzymes. Physiological function of isoprenoid and amino acids. Microbial and enzymatic production of useful substances. Lipid biosynthesis in Archaea.	enzyme, isoprenoid, archaea, D-amino acid, pyridoxal phosphate	HEMMI, Hisashi		ITO, Tomokazu	
	47. Molecular Biotechnology	Molecular bioengineering for novel biomolecules, bioprocesses and analytical processes. Currently, novel monoclonal antibody screening, single molecule technology for protein engineering, and the mechanism of translation-enhancing peptide are major research topics.	Bioinformatics, Enzyme engineering, Protein Engineering, Antibody Engineering, Next Generation Sequencing, High-throughput Screening	NAKANO, Hideo		DAMNJANOVIC, Jasmina	KATO, Teruyo
	48. Molecular and Cellular Regulation	Biochemical and molecular cell biological studies on signal transduction, intracellular traffic, gene expression regulation in animal cell differentiation, growth and cell death.	Ca <sup>2+</sup> -binding proteins, Cell death, Cell growth, Membrane traffic, Molecular interactions		SHIBATA, Hideki	TAKAHARA, Terunao	
	49. Molecular Bioregulation	Biochemistry and molecular cell biology on the biosynthesis and dynamics of proteins, nucleic acids and their complexes in mammals, and on the functions and regulations of these molecules in living organisms, including cell proliferation and tissue differentiation. Specifically, we are studying mammary gland development and milk synthesis, translational control including ribosomes, and the epithelial responses to bioactive factors.	Mammary gland, Milk, Ribosome, Epithelial cell		NADANO, Daita		OHSHIMA, Kenji
	50. Glyco-Life Science	Interdisciplinary studies between bioagricultural, medicinal, and pharmaceutical sciences on regulatory mechanisms for glycans-involved phenomena to attain better health, environment, and food	Glycocalyx, glycans, glycosyltransferase, glycosidase, immune system, neural system	SATO, Chihiro			HANE, Masaya
	51. Animal Cell Function	Studies on impacts of metabolic changes of glycans in proteins and lipids at the organism level, using medaka models and their integrated omics including glycomics.	Glycobiology, Sialic acid metabolism, Membrane microdomain, Reverse genetics of Medaka, Glycomics, Glycoproteomics	KITAJIMA, Ken			WU, Di
	52. Animal Cell Physiology	Studies on functions of extracellular matrix, transporter proteins, and signal transduction.	Bone, Heart, Molecular Biology, Electrophysiology, Imaging		MATURANA, Andrés Daniel	NIIMI, Tomoaki	
	53. Nutritional Biochemistry	Nutritional regulation of enzyme and gene expression in mammals. Molecular mechanisms for hepatocyte differentiation in 3-dimensional culture systems. Physiological significance of liver circadian rhythm. Metabolism and physiological functions of branched-chain amino acids.	Gene expression, Liver clock, Branched-chain amino acids (BCAA), Muscle		ODA, Hiroaki	KITaura, Yasuyuki	
	54. Alimentary Neuroscience	Omnivorous animals including human evaluate and select specific foods among several candidates before consumption. Our goal is the identification of the neural mechanism for food choice.	Brain, Gustatory, Food preference, Appetite	NAKAJIMA, Ken-ichiro			RATTANAJEARAKUL, Nawarat***
	55. Soil Biology and Chemistry	Studies on the microbial population, and the chemical and biological processes occurring in the paddy field ecosystem.	Agricultural land, Biogeochemical cycles, Microbial ecology, Microbial physiology, Microbial taxonomy	ASAKAWA, Susumu	WATANABE, Takeshi		
	56. Applied Microbiology	Molecular and chemical genetic studies on gene regulation of agriculturally and industrially important microorganisms, especially filamentous fungi.	Filamentous fungi, Food microbiology, Polysaccharide-degrading enzymes, Transcriptional regulation, Secondary metabolites	KIMURA, Makoto			MAEDA, Kazuyuki
	57. Plant Signaling	Studies on molecular mechanisms underlying optimization of plant growth and development in response to environmental cues with focusing on phytohormone function.	Nutritional response, Plant hormones, Growth regulation, Nitrogen, Iron	SAKAKIBARA, Hitoshi	KIBA Takatoshi	TABATA, Ryo** HASHIMOTO-SUGIMOTO, Mimi	BELLEGARDE, Fanny***

## Laboratories, Areas of Research, and Staff

Department	Laboratory	Area of Research	Research Key Words	Staff			
				Professor	Associate Professor	Lecturer	Assistant Professor
	58. Biochemistry	Biochemical, molecular genetic, and microscopic studies on regulatory mechanisms of development of plant organs such as flowers, pollen grains, and roots. Studies on molecular functions and regulation of membrane proteins that support photosynthesis and inorganic nutrient assimilation in plants and cyanobacteria.	Flower development and anthesis, Pollen morphology, Meristem organization, Jasmonic acid, Transcription factors, Membrane transporter		ISHIGURO, Sumie		MAEO, Kenichiro MAEDA, Shin-ichi NAKANISHI, Yoichi
	59. Molecular and Functional Genomics	Biochemical, cellular and genetic studies on molecular mechanisms of chlorophyll biosynthesis, nitrogen fixation, circadian rhythm and phytochrome signal transduction in cyanobacteria and plants.	Cyanobacteria, Chlorophyll biosynthesis, Nitrogen fixation, Plants, Circadian clock, Plant hormones	FUJITA, Yuichi	YAMASHINO, Takafumi		YAMAMOTO, Haruki
	60. Developmental Signaling Biology	Studies on regulatory mechanisms of biochemical and molecular processes involved in the growth and development of higher plants.	ethylene biosynthesis, apical dominance, parthenocopy, protein mass spectrometry				
	61. Plant Cell Function	Molecular mechanisms of plant growth and development, and their regulation in response to environmental signals. Studies on membraneless organelles in plant cells.	meristem, endosperm, stress, seed dormancy, jasmonic acid, membraneless organelles		UEGUCHI, Chiharu TAKEDA, Shin		
	62. Plant Integrative Physiology	Understanding plant circadian rhythms and seasonal behaviors with multi-omics approaches. Improvement of plant biomass and productivity by controlling key genes for circadian and seasonal behaviors.	Plant circadian clock, Transcriptional network, Bioactive small molecules.	NAKAMICHI, Norihito			MURANAKA, Tomoaki
	63. Plant Metabolic System	Studies on biological functions and regulatory mechanism of plant metabolism.	amino acids, environmental stress, mathematical modelling, metabolome, specialized metabolites	HIRAI, Masami			
	64. Metabolic Balance of Ecosystem	Methodology development of analysis of metabolic balance of ecosystem and its application to applied sciences.	homeostasis, environmental analysis, complexity, NMR, data science, machine learning	KIKUCHI, Jun			

\*\*Designated Lecturer

\*\*\*Designated Assistant Professor

(as of April 1, 2023)

Admission Data for the Doctoral Program of Academic Year 2022 (Aug. 2022)

専攻 Department	入学定員 Admission Quota	志願者数 Number of Applicants	合格者数 Number of Successful Applicants
森林・環境資源科学専攻 Forest and Environmental Resources Sciences	A Several	0 [0] (0)	0 [0] (0)
植物生産科学専攻 Plant Production Sciences	A Several	1 [1] (0)	1 [1] (0)
動物科学専攻 Animal Sciences	A Several	0 [0] (0)	0 [0] (0)
応用生命科学 Applied Biosciences	A Several	1 [0] (1)	1 [0] (1)
計 Total		2 [1] (1)	2 [1] (1)

注) [ ] : students holding a job

( ) : international students