

Graduate School of Innovative Life Science

Major of Cognitive and Emotional Neuroscience

(Ph.D. Program)

Guidelines for Recruitment of Students (The 2nd)

For admission in April 2023

General Admission

Special Admission for Persons with Disability

December 2022

University of Toyama

Due to the spread of the novel coronavirus infection(COVID-19), the contents of these guidelines for recruitment of students may be changed.

Please be sure to obtain the latest information from the following website.

<https://www.u-toyama.ac.jp/>

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Although recruitment of students for the Ph.D. program (for entrance in April 2023) of Cognitive and Emotional Neuroscience Major of the Graduate School of Innovative Life Science of this university is implemented twice, the second recruitment of students will be implemented based on these Guidelines for Recruitment of Students. The first recruitment of students was implemented at August 2022.

Admission Policy

【Admission policy】

The Graduate School of Innovative Life Science seeks students who at admission have acquired a level of specialized academic competence through a previously awarded masters or equivalent for the Ph.D. course in Cognitive and Emotional Neuroscience. Furthermore, we seek candidates to be motivated to further expand their knowledge of their specialty, desiring to develop experimental techniques in the wider research field through an active personality and with interdisciplinary interests in mind.

【The policy of selection of applicants (Methods of entrance examinations and evaluations)】

< General Admission >

Applicants are selected on the basis of the integrated scores of the following items; written English examination (or external English examination), oral examination, and academic transcripts. Applicants are assessed based on their academic abilities and willingness which are equivalent to those among graduates of a four-year university.

< Special Admission for Persons with Disability >

Applicants are selected on the basis of the integrated scores of the following items; written examination (essay), oral examination, and academic transcripts. Applicants are assessed based on their academic abilities and willingness which are equivalent to those among graduates of a four-year university.

General Admission

1. Number of students for recruitment

Major	No. of students for recruitment	Major
Cognitive and Emotional Neuroscience	9	The number of students to be recruited includes Persons with Disability recruited for special admission (about 2 in the Graduate School of Innovative Life Science), and successful applicants at the first recruitment.

(Note) - Applicants must consult a tutor of the preferred major/education field in advance about the direction, etc. for education and research, etc.

- In this Graduate School, the “Special Provisions for Education Methods” specified in Article 14 of the “Standards for Establishment of Graduate Schools” are applied for paying special consideration to learning opportunities for adult students. If it is judged that there is a special educational need, education is provided using appropriate methods by offering classes or research instruction at night or another specific time or period to adult students so that they do not have to leave work.

An adult student (working person) refers to a person who works at a hospital, educational/research institute, company, etc. as an employee and keeps that position even after admission.

2. Qualification for application

A person who corresponds to one of the following requirements

- (1) A person who has graduated from a university (only programs that require a course of medicine, dentistry, or pharmaceutical, veterinary medicine with a 6-year course term), prior to admission to the graduate school
- (2) A person who has received a Bachelor's degree from the National Institution for Academic Degrees and Quality Enhancement of Higher Education based on the regulations specified in Article 104, Paragraph 7 of the School Education Act (only a person who has taken a course of medicine, dentistry, pharmaceutical, or veterinary medicine), prior to admission to the graduate school
- (3) A person who has completed an 18-year course of school education in another country (medical, dental, or six-year pharmaceutical, veterinary medicine college), prior to admission to the graduate school
- (4) A person who has completed an 18-year course of school education in a country other than Japan by taking a correspondence course of education in Japan offered by a school in that country (medical, dental, or six-year pharmaceutical, veterinary medicine college), prior to admission to the graduate school
- (5) A person who has completed the course of an educational institution that is positioned in Japan as a school that offers courses for a foreign university in the school education system of that country (limited to those who have completed an 18-year course of school education in that country (medical, dental, or six-year pharmaceutical, veterinary medicine college)), prior to admission to the graduate school
- (6) A person who have completed an educational program (limited to Medicine, Dentistry, Pharmaceutical Sciences and Veterinary Medicine) of five years or more at a university or an educational institution in a foreign country (which has been evaluated for its educational and research activities by an institute certified by the government or its related organization, or an equivalent thereof designated by the Minister of Education, Culture, Sports, Science and Technology, Japan) (including a person who have completed a correspondence course offered by

the foreign educational institution while residing in Japan, and a person who have completed an educational program at an educational institution authorized by the School Education System and designated as such by the Minister of Education, Culture, Sports, Science and Technology, Japan) and have been conferred a degree which is equivalent to a Bachelor's degree, prior to admission to the graduate school

- (7) A person who is designated by the Minister of Education, Culture, Sports, Science and Technology (Announcement No. 39 of the Ministry of Education in 1955)

[1] A person who has taken a course of medicine or dentistry in the medical or dental department of a university based on the old University Act (No. 388 of the Imperial Decree in 1918) and has graduated from the said department

[2] A person who has graduated from the National Defense Medical College based on the Defense Agency Establishment Act (Law No. 164 of 1954)

[3] A person who corresponds to any of the following and is recognized to have ability equaling or surpassing a person who has graduated from a university by taking a course of medicine, dentistry, pharmaceutical or veterinary medicine

a. A person who has completed a master's program (pharmacology, science, engineering, etc.) and a person who can receive a master's degree (pharmacology, science, engineering, etc.)

b. A person who has been enrolled on a Ph.D. program that does not have the divisions of 2-year first-term and 3-year second-term programs for more than 2 years, has completed more than 30 credits, and has received necessary research guidance (including a person who corresponds to Article 6, Item 1 of the pre-amendment Rules for Academic Degrees (No. 9 Ministerial Order from the Ministry of Education in 1953) based on the ministerial ordinance for partial amendment of the Rules for Academic Degrees (No. 29 Ministerial Order from the Ministry of Education in 1974))

c. A person who has engaged in research at a university, research institute, etc. for more than 2 years after graduating from a university (excluding programs to take a course of medicine, dentistry, pharmaceutical or veterinary medicine) or who has completed a 16-year course of school education in another country based on the School Education Act and has been approved by this Graduate School for Innovative Life Science based on the research achievement in the Graduate School or his or her major

- (8) A person who have been enrolled in the Doctoral Course of another Graduate School (limited to a course of four years) in accordance with the provisions of School Education Law Article 102, Paragraph 2 and have been deemed by the Graduate School to have the academic ability required to study at the Graduate School

- (9) A person who has been recognized through the individual examination for admission qualification by this Graduate School for Innovative Life Science to have ability equaling or surpassing a person who has graduated from a university (medical, dental, or six-year pharmaceutical, veterinary medicine) and will be at least 24 years old by the time of admission, may apply

- (10) A person who has been enrolled at a university (medical, dental, or six-year pharmaceutical, veterinary medicine) for more than 4 years (including a person who has been specified by the Minister of Education, Culture, Sports, Science and Technology to be pursuant to this) and has been recognized by this Graduate School for Innovative Life Science to have acquired the designated degree with outstanding achievements during the enrollment period

(Notes) - It is desirable that a person who corresponds to Qualification for Application (1) and has graduated from the medical or dental department obtain a license as a medical doctor or dentist.

- A person who corresponds to (6) is requested to consult with the Examination Section of the Admissions Office for Educational Affairs Division (Sugitani Campus) in advance.

- A person "designated by the Minister of Education, Culture, Sports, Science and Technology" in Qualification for Application (7) includes a person who has been recognized by the Graduate School such as a person who has completed a Master's degree. For more information, please contact the Examination Section of the Admissions Office for Educational Affairs Division (Sugitani Campus).

- A person "specified by the Minister of Education, Culture, Sports, Science and Technology" in the Qualification for Application (10) includes a person who has completed an equivalent course in another country. For more information, please contact the Examination Section of the Admissions Office for Educational Affairs Division (Sugitani Campus).

- A person who is going to apply for admission based on the Qualification for Application (7)([3] "a", is excluded), (8) ~ (10) is subject to a preliminary review of qualification for application. Please see "(4) Filing for certification of eligibility for application" of "1. Application procedures" of "Common matters."

3. Selection Methods

Enrolled students are selected comprehensively based on the results of written examination or external English examination (refer to “6 The use of scores on external English examination” on page 9), oral examination, and certificate of grade report.

(1) Written examination

Foreign language (English) (It is permitted to bring in an English-Japanese dictionary^(Note). However, electronic dictionaries and medical dictionaries are not allowed.)

(Note) If a person who is a foreign national and whose mother tongue is not “English” wants to bring in a dictionary, he or she must consult the Examination Section of the Admissions Office for Educational Affairs Division (Sugitani Campus) beforehand.

※Applicants who have submitted their official scores on any of the external English examinations may be exempted from a written examination, depending on their score.

(2) Oral examination

The oral examination is about subjects related to the student’s preferred major/education area.

(3) Date and location of examination

Date (day of the week)	Time	Subject for examination, etc.	Site for examination
February 28 (Tuesday), 2023	9:30~11:00	Foreign language (English)	Sugitani (medical and pharmaceutical areas) Campus, University of Toyama, 2630 Sugitani, Toyama
	13:00~	Oral examination	

Special Admission for Persons with Disability

1. Purpose

This University's Graduate School of Innovative Life Science shall improve the educational and research environment that allows a person with physical disability to participate in research on health and welfare devices, medical devices, or universal design on their own initiative and carry out advanced scientific education and research that can provide human resources and technologies that respond to the super-aging society of this country. In accordance with this purpose, this Graduate School shall implement special admission for persons with disability as follows aside from general admission.

2. Number of students for recruitment

Major	No. of students for recruitment	Remarks
Cognitive and Emotional Neuroscience	A few	To be included in the number of students recruited for general admission (The number of students with disabilities recruited for special admission shall be about 2 persons in the Graduate School of Innovative Life Science.)

(Note) - Applicants must consult a tutor of the preferred major/education field in advance about the direction, etc. for education and research, etc.

- A person with physical disability who requires support or a person who has any questions about a responsible teacher, etc. must contact the Examination Section of the Admissions Office for Educational Affairs Division (Sugitani Campus), (TEL: 076-434-7658, FAX: 076-434-4545)

3. Qualification for application

A person with physical disability (Only programs that require a course of medicine, dentistry, or veterinary medicine) or a person with developmental disability (who is issued with a doctor's certificate) and corresponds to any of the following items shall be eligible. However, the person is required to be able to study and conduct research using a support device, etc.

- (1) A person who has graduated from a university (medical, dental, or six-year pharmaceutical, veterinary medicine college), prior to admission to the graduate school
- (2) A person who have completed an educational program (limited to Medicine, Dentistry, Pharmaceutical Sciences and Veterinary Medicine) of five years or more at a university or an educational institution in a foreign country (which has been evaluated for its educational and research activities by an institute certified by the government or its related organization, or an equivalent thereof designated by the Minister of Education, Culture, Sports, Science and Technology, Japan) (including a person who have completed a correspondence course offered by the foreign educational institution while residing in Japan, and a person who have completed an educational program at an educational institution authorized by the School Education System and designated as such by the Minister of Education, Culture, Sports, Science and Technology, Japan) and have been conferred a degree which is equivalent to a Bachelor's degree, prior to admission to the graduate school
- (3) A person who have been enrolled in the Doctoral Course of another Graduate School (limited to a course of four years) in accordance with the provisions of School Education Law Article 102, Paragraph 2 and have been deemed by the Graduate School to have the academic ability required to study at the Graduate School
- (4) A person who was recognized by the Graduate School of Innovative Life Science to have the ability equal to or surpassing the person who has graduated from a university (medical, dental, or six-year pharmaceutical, veterinary medicine college) through the individual examination for admission qualification, and will be at least 24 years old by the time of admission, may apply

(Note) · A person who corresponds to (2) is requested to consult with the Examination Section of the Admission Office for Educational Affairs Division (Sugitani Campus) in advance.

· As for certification of the eligibilities (3) or (4) for application, please see "(4) Filing for certification of eligibility for application" of "1. Application procedures" in the "Common matters."

4. Selection Methods

Enrolled students are selected comprehensively based on the results of written examination or external English examination (refer to “6 The use of scores on external English examination” on page 9), oral examination, and certificate of grade report.

(1) Written examination

Foreign language (English) (It is permitted to bring in an English-Japanese dictionary^(Note). However, electronic dictionaries and medical dictionaries are not allowed.)

(Note) If a physically-disabled person who needs special consideration when using dictionary, or a foreign national person whose mother tongue is not “English”, wants to bring in a dictionary, he or he must consult the Examination Section of the Admissions Office for Educational Affairs Division (Sugitani Campus) beforehand.

※Applicants who have submitted their official scores on any of the external English examinations may be exempted from a written examination, depending on their score.

(2) Oral examination

The oral examination is about subjects related to the student’s preferred major/education area.

(3) Date and location of examination

Date (day of the week)	Time	Subject for examination, etc.	Site for examination
February 28 (Tuesday), 2023	9:30~11:00	Foreign language (English)	Sugitani (medical and pharmaceutical areas) Campus, University of Toyama, 2630 Sugitani, Toyama
	13:00~	Oral examination	

Common matters

1. Application procedures

(1) Method of application

An applicant for admission must first pay an “examination fee” and send the application documents by “registered/express mail” after writing down the necessary information according to the following division on the envelop in red.

[1] Period of application

January 10 (Tuesday), 2023 to February 9 (Thursday), 2023 (as indicated by the postmark on the envelop)

Application documents should be mailed to:

The Examination Section of the Admissions Office for Educational Affairs Division (Sugitani Campus)
University of Toyama
2630 Sugitani, Toyama City, Toyama 930-0194

As for a method of payment for the “examination fee,” please see “(3) Method of payment for examination fee.”

However, if a person attending an education school (graduate course) of this University plans to continue to the Ph.D. program of the education school, he or she does not need to pay the examination fee.

[2] Necessary information on the envelop

“Enclosed: Application for admission to the Graduate School of Innovative Life Science (general admission to the Ph.D. program)”

“Enclosed: Application for admission to the Graduate School of Innovative Life Science (special admission for persons with disability to the Ph.D. program)”

(2) Application documents

Documents, etc.		Notes
[1]	Application for admission	Please use the form designated by the University.
[2]	Certificate of (expected) graduation	It is prepared by the head (dean) of the university from which the applicant graduated. (A person who has graduated from this university does not need it.)
[3]	Certificate of (expected) completion of Master's degree	It is prepared by the head of the university (graduate course) from which the applicant graduated. (Only a person who has completed (is expected to complete) the Graduate School's Master program (first-term Ph.D. program))
[4]	Certificate of grade report	It is prepared and strictly sealed by the head (dean) of the university from which the applicant graduated. (All grade reports after admission to the university) It forge-proof/copy-prevention paper is used, wax-sealing of the envelope is not necessary. (A person who has completed (is expected to complete) the Graduate School's Master program (first-term Ph.D. program) should also attach the grade report prepared and sealed by the head of the graduate course.)
[5]	Admission card for examination/photo card	Please use the form designated by the University, attach a photo of the applicant (4cm H×3cm W, upper body with no hat, headshot taken within the last three months before submitting the application) to the form and fill out necessary items.
[6]	Certificate of Payment (Examination Fee)	Download and print out the Certificate of Payment. Cut along the dotted lines to get your certificate of payment, then paste it on the designated space on the application form. However, if a person attending each education school (graduate course) of this University and plans to continue the Ph.D. program of the education school, he or she does not need to pay the examination fee.
[7]	Certificate of approval for taking examination	For a person who is enrolled in the Ph.D. program of another university or a person working in a public office, company or hospital, please attach a certificate of approval for taking an examination issued by the head of the education school (graduate course) of that university or head of division to which the applicant belongs. (Please choose a form.)
[8]	Copy of the certificate of residence (For a foreigner)	For a foreigner who now lives in Japan, please attach a copy of the certificate of residence issued by the head of municipal government or a copy of both sides of the residence card.
[9]	Physical disability certificate (copy), etc.	For special admission for persons with disability, a person with physical disability must attach a copy of a physical disability certificate, and a person with developmental disability must attach a doctor's certificate.
[10]	Envelop for return	This is used for sending an admission card for examination. Please clearly state the postal code, address and name on the No. 3 long-format envelop (23.5cm×12cm) and attach a 344-yen stamp to the envelop.
[11]	Address card (for mailing a notification of acceptance)	Please use the form designated by the University and fill out a postal code, address, name and its FURIGANA in the form.
[12]	TOEFL/TOEIC score sheet (original)	Applicants who have taken any of the following examinations are requested to submit the original score sheet. (It will be returned in the reply envelope after photocopying it.) (1) TOEFL-iBT score report for the applicant (2) TOEFL-ITP score report (3) TOEIC L&R Official Score Certificate (4) TOEIC L&R-IP Score Report Only score sheets issued on or after February 28, 2021 are valid.
[13]	Pledge	Please use the form designated by the university. Please see "7 Security Export Control" on page 9.

※1. The designated form shall be downloaded from our website and printed out in A4 size.

2. Documents written in a foreign language other than English must be accompanied by documents translated into Japanese or English.

(3) Method of payment for examination fee

Please pay the examination fee of 30,000 yen according to "Payment Flow of Entrance Examination Fee" on page 10.

The Entrance Examination Fee Payment Website <https://e-apply.jp/n/toyama-gs-ayment/>

Cautions

- The applicant must pay the handling fee in addition to the examination fee.
- Please enter the same personal information as the application for admission on the payment form.
- The examination fee can be paid one week in advance of the application period starts.

However, if a person corresponds to the following, he or she does not need to pay the examination fee.

- A person who is a master's student of our university and plans to continue The Ph.D. program of the graduate school.

The examination fee shall not be refunded to the applicant for any reason except in the following cases.

- [1] The applicant paid the examination fee, but did not apply for admission to the University of Toyama (did not submit the application documents or the application documents were not accepted)
- [2] The applicant paid the examination fee twice
- [3] The applicant paid more than the designated examination amount

(Note) If you need to claim for return of the examination fee, please be sure to attach the "Certificate of Payment (Examination Fee)" to the attached "Claim Form for Refund of Examination Fee" and send it to the University of Toyama by mail.

Send to: Accounting Division of Financial Department, University of
Toyama 3190 Gofuku, Toyama City, Toyama 930-8555
Tel: 076-445-6053

(4) Filing for certification of eligibility for application

A person who applies based on the "Qualification for Application (7) ([3] "a", is excluded), (8) ~ (10)" ("Qualification for Application (3) or (4)" in the case of special admission for persons with disability) is subject to preliminary review for qualification. Please gather the following documents and submit them to the Examination Section of the Admissions Office for Educational Affairs Division (Sugitani Campus), of the University of Toyama by January 6 (Friday), 2023.

- Certification Record of Eligibility for Admission Exam Application (a form designed by the University)
- Certificate of grade report of graduate school and a file diploma of the latest school
- Record of research and business achievement
- List of research paper (including conference presentation) (a form designed by the University)

Result of the review of the certification of eligibility for application will be informed to the student by January 27 (Friday), 2023

(5) Preliminary consultation for a physically-disabled applicant (Excluding special admission for persons with disability)

Because a physically-disabled applicant may need special consideration when taking an examination or attending the university, please consult the Examination Section of the Admissions Office for Educational Affairs Division (Sugitani Campus), prior to the application.

During the consultation, we may ask the submission of a document describing the following matters and a doctor's certificate.

- Type and severity of disability
- Matters for which the applicant requests special consideration when taking an exam
- Matters for which the applicant requests special consideration when attending the university
- Situation of daily living and other matters that can be referred to

[1] Deadline for consultation: January 6 (Friday), 2023

[2] Contact to: the Examination Section of the Admissions Office for Educational Affairs Division (Sugitani Campus),
University of Toyama
2630 Sugitani, Toyama City, Toyama 930-0194
Tel: 076-434-7658

2. Announcement of successful applicants

The examinee's numbers of successful applicants shall be posted in front of the gate of the school of Engineering (Gofuku Campus) and in front of the research buildings of the school of Medicine and the school of Pharmacy and Pharmaceutical Sciences (Sugitani Campus), University of Toyama, at 3:00 p.m. on March 10 (Friday), 2023, and successful applicants shall be notified separately.

The University will not respond to any inquiry about the passing status by phone, fax, etc.

3. Admission procedures

The admission procedures shall be taken as follows, but the details will be notified separately to successful applicants.

(1) admission procedure period: March 17 (Friday), 2023 (scheduled)

(2) Expenses required for admission procedures

a. Admission fee: 282,000 Japanese yen (scheduled amount)

(Note) [1] The above admission fee is the scheduled amount. If the admission fee is revised at the time of admission, a new admission fee will be applicable from the time of revision.

[2] The paid admission fee shall not be refunded for any reason.

b. Others

[1] If the payment of the admission fee and tuition is acknowledged to be difficult, the successful applicant may be exempted or payment postponed upon selection.

[2] The tuition shall be paid after admission. The amount of payment and method of payment shall be explained at the time of the admission procedures.

<Reference> Tuition of FY2022: Annual tuition of 535,800 Japanese yen

[3] A scholarship program of the Japan Student Services Organization is available.

[4] The payment for Disaster and Accident Insurance for Students Engaged in Education and Research, etc. is required separately.

(3) Cautions

A person who does not complete the admission procedures within the admission procedure period, he or she shall be handled as a person who wishes to withdraw from admission.

4. Protection of personal information of an applicant for admission

The personal information possessed by the University shall be handled based on the “Act on the Protection of Personal Information” and “University of Toyama Rules for Protection of Personal Information.”

(1) The names, addresses and other personal information of applicants learned at the time of application shall be used for [1] selection of students to be enrolled (application processing, implementation of selection), [2] announcement of successful applicants, [3] admission procedures, [4] survey/study in the selection method of enrolled students, and [5] operations associated with these purposes.

(2) Among the personal information learned at the time of application, only the information of those who completed the procedures for admission to our university shall be used for preparatory education and post-admission operations related to [1] educational instruction (school registry, attending instruction, etc.), [2] student support (health management, application for tuition waiver/scholarship, career support, etc.), [3] collection of tuition, and [4] statistical survey and data analysis.

(3) Only the examinee's numbers, names and addresses of successful applicants may be used for contact from the student activity groups, organizations associated with the university, alumni association, support group and co-op.

(Note) If a successful applicant does not wish to receive any contact from the above organizations, please inform the Examination Section of the Admissions Office for Educational Affairs Division (Sugitani Campus), to that effect.

(4) In the use of personal information for various types of operations, some of the operations may be conducted by a vendor contracted with the relevant operations from our university (hereinafter referred to as “contractor”). When contracting the operations, all or part of the personal information learned shall be provided to the contractor within the limit necessary to perform the contracted operations. We supervise the use of information to ensure compliance with confidentiality.

5. Cautions

(1) If there is any defect in the application documents, the application may not be accepted.

(2) If there is a shortage in the examination fee payment, the application shall not be accepted.

(3) The application documents, etc. once accepted shall not be returned for any reason.

(4) If any fact that is different from the description in the submitted documents is found even after acceptance of admission, the admission of a successful applicant may be cancelled.

(5) Please forward any inquiry about the application or other matters to the following address.

The Examination Section of the Admissions Office for Educational Affairs Division (Sugitani Campus),
University of Toyama

2630 Sugitani, Toyama City, Toyama 930-0194

Tel: 076-434-7658

6. The use of scores on external English examination

Applicants whose score is 42 or higher for TOEFL-iBT, 439 or higher for TOEFL-ITP or 438 or higher for TOEIC L&R, are exempted from taking a written English examination. Please submit the score sheet along with your application documents.

Scores on the TOEFL-iBT, TOEFL-ITP, TOEIC L&R, or TOEIC L&R-IP are converted into points out of 100, and used for the evaluation.

Scores can be accepted only in cases when it was issued on or after February 28, 2021.

Applicants who are not exempted from a written English examination due to their score, or who have not taken the TOEFL-iBT, TOEFL-ITP, TOEIC L&R, or TOEIC L&R-IP, must take a written English examination.

7. Security Export Control

The University of Toyama has established the "University of Toyama Security Export Control Regulations" based on the "Foreign Exchange and Foreign Trade Act", and conducts strict screening for security export control in the perspective of providing technology and export of research equipment and materials. If applicants who fall under any of the regulated items, you may not be able to get the permission to enroll, and receive the desired education at the university. There may be restrictions on your desired research activities.

For more information, please visit the University website.

[Reference] "University of Toyama Security Export Control Regulations"

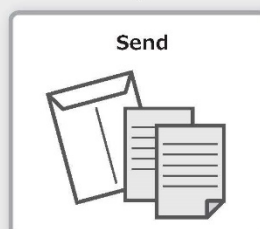
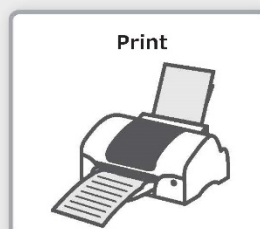
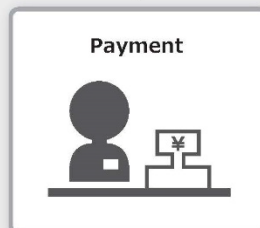
URL <http://www3.u-toyama.ac.jp/soumu/kisoku/pdf/0110401.pdf>

Payment Flow of Entrance Examination Fee

Prepare an Email address, a computer that is connected to the Internet, and printer.



Your application is NOT complete until you have registered your information in the entrance examination fee payment website.
Send us the required documents and the examination fee payment certificate to University of Toyama.



STEP 1 Go to the Entrance Examination Fee Payment Website

The Entrance Examination Fee Payment Website

▶ <https://e-apply.jp/n/toyama-gs-payment/>
or

Official Website of University of Toyama

▶ <https://www.u-toyama.ac.jp/admission/graduate-exam/graduate/>

STEP 2 Register Personal Information

- 1) Make sure you follow the screen procedures and important notices.
- 2) Choose the payment method of entrance examination fee.
- 3) Enter the required information and record the payment processing number.

STEP 3 Pay Entrance Examination Fee

【Pay at the Convenience Store, Pay-easy ATM banks, Internet banking】

Make a payment at the convenience stores (Seven Eleven, Lawson, Ministop, Family Mart, Daily Yamazaki, and Seico Mart), Pay-easy ATMs of Post offices or Banks, and internet banking.

※ Payment can not be made at stores outside Japan.

【Pay with Credit Card】

Make sure the card number, expiration date, card holder name, and security code, to pay the fee.

(Accepted Credit Cards)

VISA, Master, JCB, AMERICAN EXPRESS, MUFG Card, DCCard, UFJ Card, NICOS Card

STEP 4 Print out the Certificate of Payment

The Entrance Examination Fee Payment Website

▶ <https://e-apply.jp/n/toyama-gs-payment/>

Click on "Review" button to download and print out the Certificate of Payment. Cut along the dotted lines to get your certificate of payment, then paste it on its designated location in the application form.

STEP 5 Send all application documents

Send the form with pasted certificate of payment and all other application documents, via registered express mail at the post office, within the application submission deadline.

※ See the details of each school/graduate school for application guide.



● Make sure the information you enter is correct, as you will not be able to revise/change any of this information after registration is complete. However you may re-register the correct information and "revise" the information this way, as long as it is before you have made the payment.

※ Take notice that if you chose to pay with your credit card, the payment will be made as soon as you register your personal information.

Outline of the Ph.D. program of the University of Toyama Graduate School of Innovative Life Science

1. Purpose

Currently, the development of technologies and equipment in important areas such as medical care, drug discovery, and welfare centering on medicine and pharmaceutical sciences, which are closely related to human life itself, is fast evolving everyday. In fact, such development in medical and pharmaceutical areas alone is limited to the expansion of biotechnology essential for medical care, development of advanced biotechnology-based medical devices such as new drugs, protein chips and cellular chips, computational chemistry and synthetic technology necessary for drug discovery, and progress of manufacturing technology of drugs. There is a growing need for scientific education in cognitive information science, biotechnology, electronic information, and device engineering, new technology such as nano technology in the areas of science and technology, and explanation of life phenomena.

We have established the “Graduate School of Innovative Life Science” that combines the field of developing electronic measuring systems and precision instruments, which are necessary for medical care, the area of simulating information transmission and processing methods in the brain and nervous system and applying the advantages, the field of analyzing structures and actions of chemical compounds for drug discovery, computerizing/predicting, and synthesizing them, and the area of developing new functional materials necessary for assisting biological functions by making full use of nano technology with the medical and pharmaceutical areas based on the latest life sciences. We are aiming to develop human resources who can respond to various social needs by providing cutting-edge interdisciplinary education and research on basic studies of human life system, maintenance of health, and support through the coordination of related teachers in the faculty activities of medical science, pharmaceutical science, basic science, and engineering.

2. Structure and Credit Standard

(1) Majors and course terms

[1] There are three majors in this Graduate School of Innovative Life Science (Ph.D. program): Cognitive and Emotional Neuroscience, Biological Information Systems, and Advanced Nano and Sciences.

[2] The course term for Cognitive and Emotional Neuroscience is 4 years as a standard and the course terms for Biological Information Systems and Advanced Nano and Sciences are 3 years as a standard.

(2) Credit standard

The following table shows the credit standard of this Graduate School of Innovative Life Science (Ph.D. program).

As of April, 2022

Class subject Major	Optional subject			Free optional subject (including an open subject of another graduate school*)	Mandatory subject		Total
	Common subject	Lecture	Training	Lecture	Exercise	Special research	
		Open subject of own major	Open subject of own major				
Cognitive and Emotional Neuroscience	2 credits or more	8 credits or more	2 credits or more	4 credits or more	4 credits	10 credits	30 credits or more

*Graduate School of Medicine and Pharmaceutical Sciences, Graduate School of Science and Engineering

3. Outlines of Majors

Major	Contents of major	Educational area
Cognitive and Emotional Neuroscience	<p>Recently, incidence of dementia in longevity societies and problems due to emotional and behavioral abnormalities in juveniles are increasing.</p> <p>The brain is the only organ that develops during the lifetime under the influences of various factors such as many molecules induced by genes, the antenatal environment, and the environment of the external world after birth (social environment). Abnormalities in these material processes in the brain lead to emotional and behavioral abnormalities, while these emotional and behavioral abnormalities affect these material processes and change not only the brain structure but also the physiological functions. This department aims to develop sophisticated healthcare staff and leading brain scientists who can independently deal with mental problems and emotional/behavioral abnormalities, which are rapidly becoming problematic in developed countries, by over-viewing them through interdisciplinary research approaches including specialized fields of basic medicine at the molecular, cellular, and system behavior levels as well as clinical medicine and human social sciences.</p> <p>The goal of this department is to establish science for humanity (“integrated science of the heart”), and the following items are targeted:</p> <ul style="list-style-type: none"> • Neuroscience-based resolution of recognition/emotion/memory • Neuroscience in the development of emotional and mental behavioral disorders • Neuroscience for the development of higher brain dysfunction and evolution in preventive care • Establishment of molecular biological grounds for brain development • Promotion of brain-scientific researches by utilizing the combined grounds of medical sciences and pharmaceutical sciences and drug discovery • Cross-sectoral analysis of neural information networks 	<ul style="list-style-type: none"> • System Emotional Science • Molecular Brain Science • Molecular Neuroscience • Integrative Neuroscience • Molecular Neuropathology • Neuropsychiatry • Neurosurgery • Anatomy and Neuroscience • Clinical and Cognitive Neuroscience • Behavioral Physiology • Systems Function and Morphology

4. List of class subjects

As attached in Appendix I

5. List of responsible teachers and research contents

As attached in Appendix II

6. Special exceptions of educational method

A person who receives special-exception education can not only take courses during the day but can also take courses and research guidance at night if he or she submits a course plan after consulting with his or her responsible teacher. The time slot for night courses and research guidance is scheduled from 18:10 to 21:20 from Mondays through Fridays in principle. However, a person eligible for special exception can take courses on Saturdays or during the summer vacation, etc. depending on the class subject.

The time slots for classes are scheduled as follows.

First period:	08:45 – 10:15	Second period:	10:30 – 12:00	Third period:	13:00-14:30
Fourth period:	14:45 – 16:15	Fifth period:	16:30 – 18:00		
Sixth period:	18:10 – 19:40	Seventh period:	19:50 – 21:20		

7. Conferral of academic degree

○ Major of Cognitive and Emotional Neuroscience

- (1) The type of academic degree is a Ph.D. (Doctor of Philosophy in Medical Sciences).
- (2) Ph.D. (Doctor of Philosophy in Medical Sciences) degree shall be given to a person who has been enrolled in the Graduate School for more than 4 years, acquired 30 credits or more according to “(2) Credit standard” of “2. Structure and Credit Standard,” and passed the review for a doctoral dissertation and the final examination after receiving necessary research guidance. However, an academic degree may be given even if his or her enrollment period is less than 4 years, if a student who has been enrolled in the Graduate School for more than 3 years has shown outstanding research achievements and met the designated requirements.
If a student presents his or her plan to take and complete the program systematically over a certain period beyond the standard course term (4 years) due to special circumstances such as working outside the campus, the systematic course curriculum may be accepted.

8. Structure of responsible teachers, etc.

- (1) One responsible teacher and two assistant teachers shall be assigned.
- (2) Each student shall decide on a special research theme after consulting with a responsible teacher and/or an assistant teacher at the time of admission and shall carry out the research in parallel with special exercise courses until completion of the program.
- (3) One of the assistant teachers shall be selected from among teachers who belong to different faculty activities from the faculty activity (medical science, pharmaceutical science, basic science, and engineering) of the student and shall give advice beyond the conventional boundaries of the research departments of medical science, pharmaceutical science, basic science, or engineering.

Appendix I

List of Class Subjects

Major of Cognitive and Emotional Neuroscience

As of April, 2022

	Name of class subject	No. of credits		
		Mandatory	Optional	Free
Common subject	Bioethics		2	
	Advanced Life science		2	
	Medical Design and Entrepreneurship		2	
	Internships		2	
Specialized subject	Neuroscience of Emotion and Memory		2	
	Central Regulation of Behavior and Autonomic System		2	
	Signal Transduction in the Neural System		2	
	Molecular Biological Approaches to CNS Function		2	
	Cellular and System Physiology		2	
	Sensory and Cognition Systems		2	
	Brain-derived Growth Factors		2	
	Neuropathology		2	
	Mental Disorders		2	
	Biological Psychiatry		2	
	Higher Order Brain Function		2	
	Molecular and Cellular Cognition		2	
	Structure of the Central Nervous System		2	
	Functional Brain Neurosurgery		2	
	Functional Reconstruction of the Brain		2	
	Developmental Pediatrics		2	
	Neuronal Circuit Formation		2	
	Maturation of Neuronal Circuit		2	
	Behavioral Physiology		2	
	Functional Anatomy of Local Neuronal Circuitry		2	
	The Scientific Writing and Presentation in English			2
	Japanese Language & Culture			2
	Training Course for Gene Expression Analysis in the CNS		1	
	Training Course for Neural Activity Recording in Animals		1	
	Practice of Neuropathology		1	
	Training Course for Gene Regulation by Small RNA		1	
	Training Course for Non-invasive Neurophysiological Measurement of Brain Activity		1	
	Training Course for Non-invasive and Non-neurophysiological Measurement of Brain Activity		1	
	Training Course for Research of Physico-brain Relationship		1	
	Training Course for Diagnosis of Brain Function		1	
	Training Course for Neuroanatomy and Comparative Neuroanatomy		1	
	Training Course for Behavioral Physiology		1	
	Training Course for Functional Anatomy of Local Neuronal Circuitry		1	
	Special Practice in Cognitive and Emotional Neurosciences	4		
	Special Research on Cognitive and Emotional Neurosciences	10		

Appendix II

List of Responsible Teachers and Research Contents

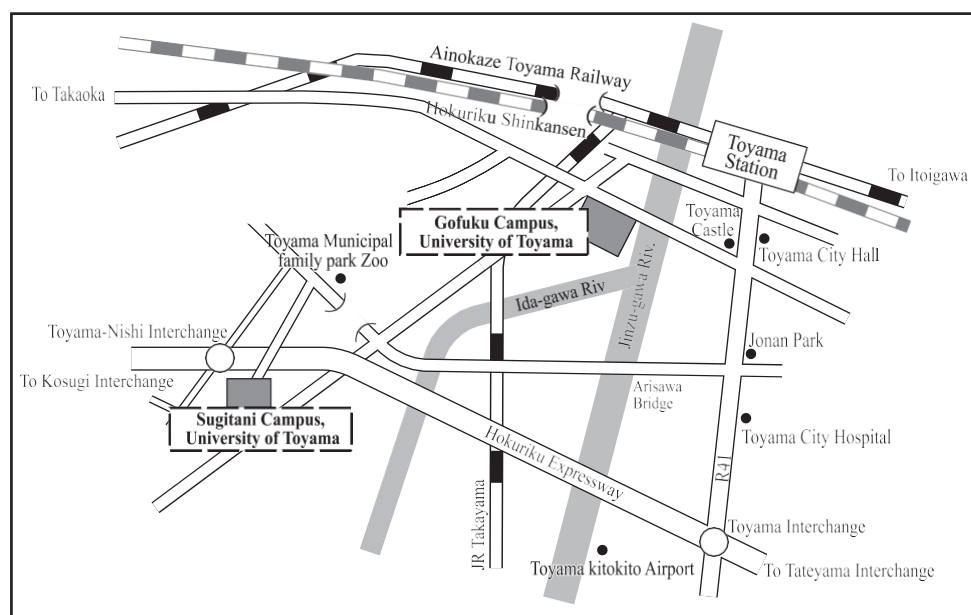
Major of Cognitive and Emotional Neuroscience

Educational area	Responsible teacher	Research contents
System Emotional Science	Professor NISHIMARU Hiroshi	<ul style="list-style-type: none"> • Neural mechanisms of emotion, learning/memory, and behavioral expression in the limbic system • Neural mechanisms of social cognition and non-verbal communication • Non-invasive functional brain mapping of human higher brain functions • Central control of autonomic nervous functions • Neural mechanism of sensory perception and cognition • Neuronal mechanism of sensorimotor integration underlying emotional behavior • Neuronal mechanism of value-based decision-making • Development and application of machine-learning based behavior analysis methods for animal models of neuropsychiatric disorders.
Molecular Brain Science	Professor INOKUCHI Kaoru	<p>We aim to resolve mechanisms underlying memory formation and also roles played by idling brain in mammals by making full use of molecular biology, biochemistry, cell biology, histochemistry, electrophysiology, behavioral pharmacology, optogenetics, and live-imaging.</p> <ul style="list-style-type: none"> • Research on the physical substance of engram • Research on the dynamics of engram • Research on idling brain functions
Molecular Neuroscience	Professor MORI Hisashi	<ul style="list-style-type: none"> • Research on molecular basis of higher brain functions such as cognition, emotion, and sociality with generation of novel genetically modified mouse models. • Research on the development of novel molecular imaging methods in the brain. • Research on molecular basis of neuro-immune interactions. • Research on molecular mechanisms of central synapse formation • Research on pathogenic mechanisms of neurodevelopmental disorders
	Associate Professor YOSHIDA Tomoyuki	
Integrative Neuroscience	Professor TAMURA Ryoi	<ul style="list-style-type: none"> • Neural mechanisms of learning and memory in the hippocampus • Temporal coding in the hippocampus • Cortico-hippocampal interplay • Mechanism for memory consolidation in sleep • Functional analyses of eye movements • Mechanisms of gustatory information processing in the central nervous system
Molecular Neuropathology	Senior Lecturer YAMAMOTO Seiji	<ul style="list-style-type: none"> • We promote a research to elucidate the function of platelet-derived growth factor receptor (PDGFR) in mice, especially neural tissue, neural stem cells, and blood vessels. • We also conduct in vitro studies using cells isolated from such mice to elucidate that the PDGFR signal is involved in the regeneration and functional recovery of several organs and tissues.
Neuropsychiatry	Professor SUZUKI Michio	<ul style="list-style-type: none"> • Brain imaging studies on pathophysiology of schizophrenia and their application to objective diagnosis of psychotic disorders • Neurophysiological studies in schizophrenia and related disorders • Pharmacotherapy to improve cognitive dysfunction in schizophrenia • Mechanisms of symptom development and preventive strategies for schizophrenia • Mechanisms of brain maturation, personality development, and sociality in adolescence • Early diagnosis and intervention for dementia
	Associate Professor TAKAHASHI Tsutomu	

Educational area	Responsible teacher	Research contents
Neurosurgery	Professor KURODA Satoshi	<ul style="list-style-type: none"> • Basic and clinical research on pathophysiology and treatment in cerebral ischemia • Clinical research on surgical technique and perioperative management in surgical revascularization • Basic and clinical research on neuroendovascular surgery • Basic and translational research on regenerative medicine in central nervous system • Basic and clinical research on pathophysiology and surgical therapy of moyamoya disease • Basic and clinical research on pathophysiology and surgical therapy in pediatric neurosurgery • Clinical research on multidisciplinary treatment for brain tumor • Basic and translational research on cancer stem cell in central nervous system • Clinical research on less invasive surgery by neuroendoscopy • Translational research on development of the devices for surgical procedure and functional recovery
Anatomy and Neuroscience	Professor ICHIJO Hiroyuki	<ul style="list-style-type: none"> • Animals move toward favorable environments: feeding and mating, and escape from unfavorable stressful environments. These behaviors governed by specific neural circuits are selected through natural selection in evolution. Our purpose is to understand structure and function of neural circuits for the behaviors in evolutionary aspects. • Research on neural mechanisms of antero-posterior topography, left-right lateralization, and maturation of habenular nuclei under stress or aversive environments in mice. • Functional significance of individual difference in neuronal circuits of stress-processing. • Research on evolutionary mechanisms of animal innate behaviors in individual-based model simulation. • Research on neural mechanisms of asymmetric behaviors in scale-eating cichlids.
Clinical and Cognitive Neuroscience	Professor HAKAMATA Yuko	<p>We aim at understanding the neurobiological mechanisms underlying emotional dysregulation associated with distorted cognitions, and using this understanding to develop novel, effective psychological interventions for anxiety and depressive disorders. We address these questions from the integrative view including psychology, cognitive behavioral science, endocrinology, immunology, genetics, and neuroscience. Lab members are expected to be engaged in research related to at least one of the following projects: 1) to examine the neurobiological mechanisms of biased cognitions towards emotional information; 2) to evaluate the efficacy of cognitive interventions including cognitive bias modification, cognitive training, and cognitive behavioral therapy for clinical and non-clinical population at high risk; and 3) to develop program tools to get the interventions easily accessible and doable. Participation in more than one project is encouraged.</p>
Behavioral Physiology	Professor TAKAO Keizo	<ul style="list-style-type: none"> • Investigation of the physiological basis of learning, memory, emotion, and cognition • Exploration and evaluation of mouse models of neuropsychiatric disorders using behavioral analyses • Elucidation of the pathophysiology and development of therapies for neuropsychiatric disorders using mouse models • Development of new genetically engineered mice • Development of new reproductive technologies

Educational area	Responsible teacher	Research contents
Systems Function and Morphology	Professor ITO Tetsufumi	<p>We employ multidisciplinary approach to investigate functional and morphological basis of the brain which allows the coding of sensory information, especially sounds, and the sensory perception. Followings are the examples of the approach.</p> <p>(1) By combining neurophysiological and neuroanatomical techniques, the organization of neuronal circuitry which enable a specific function will be clarified.</p> <p>(2) We will identify functional, morphological, and molecular details of neuronal cell types which constitute a neuronal circuitry to establish functional standpoint of each cell type.</p> <p>(3) By comparing non-model animals which have unique specializations for sensory behaviors with model animals, details of the functional organization of sensory neuronal circuitry and its evolution will be clarified.</p> <p>(4) By manipulating specific elements of a given neuronal circuitry, relationship between changes of activation patterns of the neuronal circuit and behavioral changes will be clarified.</p>

University of Toyama Campus Locations



The site of examination School of Medicine and Pharmaceutical Science, Sugitani Campus, University of Toyama

Transportation to the School of Medicine and Pharmaceutical Science, Sugitani Campus, University of Toyama

◎By Bus

- About 30-minuts ride on Toyama Local Loop Bus “University Hospital of Toyama University” (Bus stop No.3 departing in front of Toyama Station). Take off at “University Hospital of Toyama University”.

◎Others

- About 25-minuts by car from “Toyama kitokito Airport”
- About 5-minuts by car from “Toyama Nishi IC” on Hokuriku Expressway



Access to the School of Medicine
and Pharmaceutical Science,
Sugitani Campus. University of Toyama

Inquiries about the Guidelines for Recruitment of Students, admission exam,
and preliminary consultation for applicants with physical disabilities

* The applicant should make inquiries on his or her own unless absolutely necessary.

The Examination Section of the Admissions Office for Educational Affairs Division (Sugitani Campus),
University of Toyama
Address: 2630 Sugitani, Toyama City, Japan 930-0194
TEL: 076-434-7658