

# **2024 Hokkaido University**

## **Graduate Program of Brain Science Research and Education Center for Brain Science (RECBS)**

### **Student application guidelines For enrollment October 2024**

Research and Education Center for Brain Science (RECBS), Hokkaido University  
URL: <https://www.hokudai.ac.jp/recbs/>  
(Established 17 September 2003)

# **2024 Application Guidelines for the Graduate Program of Brain Science (provided by the Research and Education Center for Brain Science, Hokkaido University) (RECBS)**

## **1. Program overview**

A variety of brain and mental disorders, including psychosis, mood disorders, neurodegenerative disorders, neurotic disorders, and developmental disorders, are often difficult to treat, making them a major social problem. In addition, the resolution of brain-related problems such as attention deficits and learning disabilities in children is important not only in terms of diagnosis and intervention, but also in terms of providing effective education. Furthermore, in our hyper-aged society, there is an urgent need to understand the changes in brain function that accompany aging and to develop ways of coping with these changes.

To solve these problems, it is important to promote integrative brain science research beyond existing research areas by sharing knowledge, methodologies, and data accumulated by researchers in the health sciences, life sciences, engineering and informatics, and humanity and social sciences. To sustainably develop these research fields, it is necessary to foster young researchers with integrative knowledge of brain science.

Brain science research at Hokkaido University has a long history. Brain science continues to develop as a research field that leads to new developments through collaboration between researchers in many fields, including education, psychology, and social science as well as medicine, dentistry, pharmacy, health sciences, life sciences, engineering, and information science. The Research and Education Center for Brain Science was established as a virtual organization with concurrently assigned faculty members from various departments, aiming to integrate these resources, promote integrative brain science research, and establish a university-wide educational system. In order to provide a wide range of brain-related education that transcends the boundaries of existing graduate schools, the center has established the Graduate Program of Brain Science and offers a variety of educational opportunities.

## **2. Qualification for admission**

Applicants must be currently enrolled or scheduled to be enrolled in a master's or doctoral course at the university's graduate school to which the faculty members of Department Brain science are responsible in October 2024 and meet the following two requirements:

- (1) Conduct interdisciplinary research in the field of brain science
- (2) Obtain approval from the supervisor of the graduate school in which you are enrolled

## **3. Number of students to be recruited**

Master's course and Doctoral course	10 students in total
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## **4. Application period**

**From September 2 (Mon) to September13 (Fri), 2024 (must be received by 17:00 [JST])**

## **5. Application form for the Graduate Program of Brain Science**

Application form for the Graduate Program of Brain Science (attach your photograph as indicated)

Credits Acquisition Status Report (\*Submitted only for students currently enrolled in school)

You must obtain the signature of your supervisor and a stamp of confirmation from the academic affairs section of your graduate school before submitting the form.

## 6. How and where to apply (please select one of the following methods)

### (1) Postal mail

North 15, West 7, Kita-ku, Sapporo 060-8638  
Administration Office, Research and Education Center for Brain Science,  
Hokkaido University (in the office of the Graduate School of Medicine)

### (2) In person

Bring the form to the office above. The office is located on the first floor of the Administration Building of the Graduate School of Medicine. Office hours are from 8:30 to 17:00 on weekdays.

### (3) Campus mail

Send to the Administration Office, Research and Education Center for Brain Science  
Campus mail #20

## 7. Schedule of selection examination

Applicants will be selected through group interviews as follows:

- **Date and time: September 24 (Tue), 2024 at 14:00 (Applicants must arrive by 13:50)**
- **Exam site: Small Conference Room2, Administration Building 2F, Graduate School of Medicine**

## 8. Announcement of the selection results

Applicants will receive the results via e-mail by 17:00 on September 30 (Mon), 2024. The results will also be sent in writing to the head of your department.

## 9. Requirements for completion of the program

In order to complete this program, students must meet all of the following requirements.

- (1) Acquire at least 14 credits from the prescribed subjects, including at least 8 credits of Compulsory Elective Subjects.
- (2) Pass the thesis review conducted by the program faculty
- (3) Earn a degree from the graduate school to which the students belong

The 2024 syllabus for the Graduate Program of Brain Science will be distributed on the day of the examination. Students are required to follow the prescribed procedures for registration.

The thesis (dissertation) for the Graduate Program of Brain Science must be the same as the one for your graduate program and must be approved by your supervisor. The thesis will be reviewed by program faculty from multiple departments.

## 10. Other

For inquiries regarding this program, please contact the faculty members of the Research and Education Center for Brain Science (see attached list) or the following office.

Administration Office, Research and Education Center for Brain Science  
North 15, West 7, Kita-ku, Sapporo 060-8638 (Campus mail #20)  
Phone: 011-706-5022, Fax: 011-717-5286  
E-mail: [brain@med.hokudai.ac.jp](mailto:brain@med.hokudai.ac.jp)  
<https://www.hokudai.ac.jp/recbs/>



### The faculty members of Department Brain Science in 2024

Affiliation	Departments	Position	Name	EXT
Faculty of Humanities and Human Science	Division of Human Science	Professor	Yasuhiro Kawabata	4014
		Specially appointed professor	Mayumi Adachi	4168
		Professor	Junichiro Kawahara	4154
		Associate Professor	Kenji Ogawa	4093
		Associate Professor	Sae Kaneko	4155
		Associate Professor	Taiki Takahashi	3008
Faculty of Education	Division of Education	Professor	Tetsuko Kasai	3108
		Professor	Ayumi Seki	2608
		Professor	Masaki Abe	5442
		Associate Professor	Yujiro Yamanaka	3077
Faculty of Science	Biosystems Science Course, Graduate School of Life Science	Professor	Hiroto Ogawa	3525
		Professor	Kazuhiro Wada	4443
		Associate Professor	Yuichi Takeuchi	4448
		Lecturer	Tomomi Tsunematsu	2615
Faculty of Advanced Life Science	Laboratory of Cellular and Molecular Sciences	Lecturer	Akira Kitamura	9542
Faculty of Information Science and Technology	Division of Information Science and Technology	Professor	Takashi Tateno	6763
Faculty of Medicine	Division of Medicine	Specially Appointed Professor	Masahiko Watanabe	5032
		Professor	Haruyuki Kamiya	5027
		Professor	Masaki Tanaka	5039
		Professor	Fumino Fujiyama	5033
		Professor	Ichiro Yabe	6028
		Professor	Takeo Yoshikawa	5904
		Associate Professor	Miwako Yamasaki	5030
		Associate Professor	Khin Khin Tha	8183
		Associate Professor	Naoki Hashimoto	5973
		Lecturer	Masaaki Sato	5058
Faculty of Dental Medicine	Division of Oral Functional Science	Professor	Makoto Funahashi	4230
Faculty of Pharmaceutical Sciences	Biomedical and Pharmaceutical Science Course , Graduate School of Life Science	Professor	Masabumi Minami	3246
		Associate Professor	Iku Kimura	3248
Faculty of Health Sciences	Division of Health Sciences	Professor	Koichi Yokosawa	2828
		Professor	Daisuke Sawamura	3387
		Associate Professor	Mika Otsuki	3376
		Associate Professor	Hiroyuki Sugimori	3410
		Associate Professor	Taisuke Miyazaki	3330
		Lecturer	Kazuki Yoshida	3414
Faculty of Veterinary Medicine	Basic Veterinary Sciences	Professor	Ken-ichi Otsuguro	5219

To: Director, Research and Education Center for Brain Science

For enrollment October 2024

Application Form for the Graduate Program of Brain Science

Date of submission:                    /                    /

Attach a photo

•4 x 3 cm

•Front view

•No hat/cap/sunglasses

•Taken within the last 3 months

Affiliation (Name of Graduate School)		Course category (circle the number)	1. Master's program	Student number (Date of Admission)
			2. Doctoral program *School year (                    )	<div>/ /</div>
Course		Japanese kana		
		Roman		
Name of supervisor		Your name		
Contact information	Phone (office)			
	(mobile)	-                    -	Date of birth	
	(home)	-                    -	Home address 〒	
	E-mail			

Research theme	
Research outline (Please describe the interdisciplinary area of brain science you wish to study.)	

I recommend the above student, for whom I am (will be) a supervisor, as a student in the Graduate Course of Brain Science.	
Supervisor's comments (optional)	
Date:                    /                    /	Supervisor's signature:

\*Note:

**To applicants**

After completing the form and obtaining the signature of your supervisor, submit it to the Academic Affairs Section of your graduate school, receive a confirmation stamp in the right-hand column, and submit it to the Research and Education Center for Brain Science.

**\*Deadline for submission: September 13 (Fri), 2024**

Contact information    Campus mail: #20,    Phone: Ext. 5022  
Administration Office, Research and Education Center for Brain Science  
(within the General Affairs Section of the Graduate School of Medicine)

To the staff of Academic Affairs of the relevant graduate school

**関連学院 大学院教務担当 御中**

本様式は、学生が入学又は進学予定の所属長へ併せて提出することになっております。本用紙をコピーのうえ、出願の届け出に代えてくださるようお願いいたします。

所属学院  
届出確認欄

コピー受領係名及び確認者印

# Credits Acquisition Status Report

## (1) Compulsory Elective Subjects

Please put a check ☐ in the check box for the subjects already completed by September 2024.

Course Title	check box
Basic Brain Science I : Neural Signaling	
Basic Brain Science II : Brain Structure and Function	
Basic Brain Science III : Systems Neuroscience	
Basic Brain Science IV : Molecular and Cellular basis of Neurotransmission	
Basic Brain Science V : Practice for Human Brain Anatomy	
Introduction to Brain Science VI : The Foundations of Cognitive Sciences and Functional Imaging	
Brain Science I 2024, Lecture	
Brain Science I 2024, Practice class	
Brain Science II2024, Lecture	
Brain Science II 2024, Practice class	
Brain Science III 2024: Presentation skills of brain science	
Brain Science IV-a 2024 'Cutting-Edge Brain Science' Practice Class	
Brain Science IV-a 2024 'Cutting-Edge Brain Science' Practice Class	

## (2) Other subjects related to brain science

If you have already completed "Other Courses Related to Brain Science" by September 2024 please complete below.


Please provide evidence of subjects declared in (1) and (2).