

STUDENT ADMISSION INFORMATION  
FOR OCTOBER, 2019



DOCTORAL PROGRAM  
(GRADUATE SCHOOL OF MEDICINE)  
MEDICAL SCIENCES

Application period	① June 3 (Mon), 2019– June 17 (Mon), 2019	prescreening
	② July 16(Tue), 2019–July 25(Thu), 2019	
Entrance examination	August 22(Thu), 2019	
Announcement of successful applicants	September 5(Thu), 2019	
Registration for admission	October 1, 2019	

TOHOKU UNIVERSITY  
GRADUATE SCHOOL OF MEDICINE

May 2019

This is an informal translation edited for reference. The official document you should refer to is the original one in Japanese, “令和元年10月入学学生募集要項（医科学専攻（医学履修課程）”.

Guidelines for the Doctoral Program in the Graduate School of Medical Sciences at the Tohoku University School of Medicine for **October 2019** are as follows (including special admission quota for the working adults program):

1. Number of Openings for Students: a few  
(including the Molecular Imaging Course, Tumor Specialists Training Course, and Medical Physics Course, Comprehensive Medicine Course, Network Medical Course)

## 2. MAJOR MEDICAL SCIENCES

\* For offered fields (education and research field), please refer to the Tohoku University Graduate School of Medicine website.

[http://www.med.tohoku.ac.jp/english/about/laboratory/areas\\_index.html](http://www.med.tohoku.ac.jp/english/about/laboratory/areas_index.html)

## 3. ADMISSION REQUIREMENTS

Applicants for the doctoral program (School of Medicine) must satisfy one of the following conditions:

- (1) Those who have graduated from a school of medicine, dentistry, pharmacology, or veterinary medicine (including those who are expected to graduate by September 2019).
- (2) Those who have completed 18 years of education in a foreign country (including those who are expected to complete such education before September 2019).
- (3) Those who are specified by the Ministry of Education, Culture, Sports, Science and Technology (Ordinance of the Ministry of Education, No. 39 of March 8, 1955), such as those who have obtained or are expected to obtain by September 2019 a degree equivalent to a master's degree, first-stage doctoral degree (2-year program), or professional degree after completing the necessary coursework, and are recognized to have academic abilities equivalent to persons who have graduated from an undergraduate school of medicine, dentistry, pharmacology, or veterinary medicine by this graduate school, or who will obtain such recognition by September 2019.
- (4) Those who have completed 18 years of education in a foreign country through correspondence courses provided in Japan by a foreign school of said country or who are expected to complete said courses by September 2019.
- (5) Those who have completed or are expected to complete by September 2019 a program in an educational facility in Japan designated separately by the Ministry of Education, Culture, Sports, Science and Technology that provides courses from a foreign university within the school system of a foreign country (This applies solely to those who have completed 18 years of education in said foreign country)
- (6) Students who have been conferred a degree equivalent to a bachelor's degree upon completion of a curriculum that has a course term of five years or longer at a university or other school (limited to schools whose overall educational and research activities have been evaluated by the relevant country's government or a government-approved individual, or are designated separately as having met this requirement by the Minister of Education) in a foreign country (including cases in which the student completed the curriculum by taking subjects conducted by said school via distance learning while the student resided in Japan, and cases in which the student has completed a curriculum at an educational facility that is positioned within that country's educational system as per the previous item) including those who are expected to acquire a Bachelor degree by September 2019)
- (7) Those who have been enrolled in a university's medical, dental, pharmaceutical, or veterinary medicine course for more than four years, those who have completed 16 years of formal education (limited to those that included a medical, dental, pharmaceutical, or veterinary science course; hereafter, the same shall apply in this item), those who have completed 16 years of education in a foreign country through correspondence courses provided in Japan by a foreign school of said country, or those who have completed a program in an educational facility in Japan designated separately by the Ministry of Education, Culture, Sports, Science and Technology that provides courses from a foreign university within the school education

- system of a foreign country (this applies solely to those who have completed 16 years of education in said foreign country) and who have been recognized by this graduate school as having acquired the specified credits with outstanding performance by September 2019.
- (8) Those who entered another graduate school (school of medicine, dentistry, pharmacology, or veterinary medicine) in compliance with the provisions of Article 102, Paragraph 2 of the Law and who are recognized by this graduate school as having academic ability appropriate for receiving postgraduate education.
  - (9) Those over 24 years old by September 2019 whom this graduate school has authorized, through individual screening of entrance qualifications, as having abilities that are at least equivalent to those who have graduated from a university.

**(EXPLANATORY REMARKS)**

Before application, prospective students should first find a prospective supervisor. Find one professor in the field of your interest, contact and then obtain consent of acceptance to the laboratory.

A university mentioned in item (1), (7) and (9) refers to a 6-year university in Japan.

A “master’s degree, doctoral degree (first two years of the doctoral program, i.e., master’s program) or professional degree” mentioned in item (3) above refers to a Japanese university master’s degree, doctoral degree (first two years of the doctoral program, i.e., master’s program) or professional degree.

Applicants who satisfy the conditions for items (6), (7), (8) or (9), must pass the preliminary screening for admissions.

- a. Application Period for preliminary screening  
June 3 (Mon), 2019— June 17 (Mon), 2019
- b. Those who are interested in taking the preliminary screening should contact the Registrar’s Office Graduate School of Medicine Academic Affairs Section before applying.

\* Refer the Tohoku University Graduate School of Medicine website "Concerning the Application for Examination of Qualifications for Admission".

<http://www.med.tohoku.ac.jp/english/admissions/admissions/apply/index.html>

About screening for special admission quota

Candidates can choose the screening for special admission quota when they meet the following requirements.

- ① Candidates who graduated from a school of medicine or completed the master’s degree, doctoral degree (first 2 years of the doctoral program, i.e., master’s program) or professional degree.
- ② Candidates who have job experience of 2 years or more after they completed when they apply at the application.

\*Candidates who completed the master’s degree, doctoral degree (first 2 years of the doctoral program, i.e., master’s program) or professional degree in this university hope to take the entrance examination of this course next can’t choose the screening for special admission quota.

#### 4. APPLICATION PROCEDURE

The applicants shall prepare the documentation specified in the following Section (3) and submit it within the application period.

They shall sufficiently understand the contents of studies in the “prospective department,” directly contact the prospective professors about their examination applications prior to submission of the application forms, and receive approval.

Because candidates who want to screen for special admission quota need to submit a “letter of

acceptance from a professor who is expected to be in charge of the applicant”, you pay attention, please.

- (1) Application period is from July 16 (Tue), 2019 to July 25 (Thu), 2019 (application must reach the office due NLT 17:00(Japanese Standard Time), July 25 (Thu), 2019). Please use the prescribed application envelope and send by registered and express delivery.

Some application forms may reach the admission office on July 26 (Fri), 2019 or later. In this case, those postmarked on and before July 25 (Thu), 2019 shall be regarded as valid.

- (2) Applications should be addressed to:

Graduate Academic Affairs Section, Academic Affairs Office  
 Tohoku University Graduate School of Medicine  
 2-1 Seiryō-machi, Aoba-ku, Sendai  
 980-8575 Japan  
 Tel: (+81) (0)22-717-8010

### (3) APPLICATION DOCUMENTS

\*Screening: A General, B Special admission quota for working adults

DOCUMENTS	PARTICULARS	*Screening	
		A	B
APPLICATION FORM/ RESUME	①A Graduate School prescribed application form, with a recently taken photo affixed. ②See “6 Screening” on “Selection” , and mark the applicable box. ③Contact prospective Professor and obtain consent of acceptance to the laboratory, and tick the box of 「了承を得た」	○	○
ASPIRATIONS, MOTIVES, REASONS AND AMBITIONS	On a Graduate School prescribed application form (approximately 500 words long)	○	○
EXAM ADMISSION TICKET /PHOTO ID TICKET	Affix a photo to each of the prescribed application form and the photo ID ticket.	○	○
ENVELOPE FOR MAILING EXAM ADMISSION TICKET	Enclose the prescribed, return-addressed stamped envelope. The office will send the admission ticket in this envelope so it should clearly bear your name, return address and postal code.	○	○
TRANSCRIPT OF ACADEMIC RECORDS	Submit an official transcript of academic records issued by the dean of your graduating university with the appropriate official seal.  Those who have a master’s degree, doctoral degree (first two years of the doctoral program, i.e., master’s program) or professional degree are required to submit the transcript of academic records issued by the dean of your graduating university(s) (both undergraduate school and graduate school) with the appropriate official seal(the graduates of Tohoku University School/Graduate School of Medicine are not required to submit certificates of Tohoku University School/Graduate school of Medicine).	○	○
CERTIFICATE OF GRADUATION/DIPLOMA (expected graduation) or CERTIFICATE OF COMPLETION (expected completion)	Submit an official certificate issued by the dean of your graduating university with the appropriate official seal.  Graduates of Tohoku University School of Medicine are not required to submit this form.	○	○
A COPY OF RESIDENT’S CARD (ONLY STUDENT STUDYING ABROAD)	Candidates who stay in Japan (whose stay is over 90 days) must submit your copy of certificate of alien registration or resident’s card (both front and back) at the application.	○	○
EXAMINATION PERMIT	Any arbitrary form signed by their immediate superior at work.		○

LETTER OF ACCEPTANCE FROM A PROFESSOR WHO IS EXPECTED TO BE IN CHARGE OF THE APPLICANT	Use the form prescribed by the Graduate School of Medicine (please download from the website).		<input type="radio"/>
APPLICATION FEE, ¥30,000	① The application fee is ¥30,000. Send it by postal remittance (do not fill in the space for the recipient). ③ Applicants who expect to complete the master's degree, doctoral degree (first two years of the doctoral program, i.e., master's program) or professional degree at Tohoku University in September 2019 are exempt. ③MEXT Scholarship students are not required to pay the application fee.	<input type="radio"/>	<input type="radio"/>
FEE PAYMENT SLIP	①Applicant's name should be entered on the slip (in two places). ②MEXT Scholarship students are not required to submit the fee payment slip.	<input type="radio"/>	<input type="radio"/>
RETURN ENVELOPE FOR RECEIVING PASS/FAIL NOTICE AND ADMISSION DOCUMENTS	Enclose the prescribed, return-addressed stamped envelope for receiving the pass/fail notice. Also enclose the prescribed, return-addressed envelope for receiving admission procedure documents. The return address should be the address as of around early September 2019 (postage is not necessary). Both are returned to you through the prospective laboratory you choose.	<input type="radio"/>	<input type="radio"/>

Note: In addition to the above application-related documents items, please submit a photocopy of a score sheet from the external test of English language (TOEFL, TOEIC, etc.) as a reference if the applicant has such a score (the score does not affect the admission).  
TOEFL, TOEFL iBT, TOEFL ITP and TOEIC are registered trademarks of Educational Testing Service (ETS).

#### (4) IMPORTANT REMINDER

- ① Incomplete form or deficiencies in the application may result in rejection of the application, so please use great care when preparing and submitting the application documentation.
- ② If any of the application documents have been falsified or otherwise fraudulently prepared, admission will be cancelled even after the applicant has been enrolled.
- ③ The application fee is not refundable under any circumstances.
- ④ Applicants who have satisfied the conditions for entry through preliminary screening should enclose a copy of their acceptance notification.
- ⑤ The University does not accept the application withdrawal after the reception and the modification of contents of applications.
- ⑥ Application documents etc. will not be returned at all under any circumstances.

## 5. SCREENING

- (1) Applicants those who go on to school will be selected based on a comprehensive review of the results of the entrance examination (written) and interview as well as the information given in the submitted application documents.

(2) Entrance examination date/ time & subjects

DATE	METHOD OF SCREENING	TYPE OF TEST	TIME	SUBJECTS
August 22 (Thu), 2019	General screening	Written examination	10:00 to 12:00	Language (English)
			13:00 to 14:30	Field of specialty (core and elective subjects)
		Interview	From 15:00	
	Screening for special admission quota	Written examination	10:00 to 12:00	Language (English)
			13:00 to 14:30	Field of specialty (core subject)
		Interview	From 15:00	

Note: Examinees are not allowed to bring their dictionaries (including electronic dictionaries and translation machines) into the classrooms while they are taking the foreign language (English) and special examinations.

(3) One core subject is selected from the subjects in the fields of specialty shown below (subject number from 1-5) as designated in the Student Admission Information “List of Division and Department”.

- Subject with No. for the examination of the field of specialty

1. Physiology, 2. Pathology, 3. Public Health, 4. Internal Medicine 5. Surgery

(4) The elective subject should be one other than the core subject at the application (no changes are allowed after the application has been submitted).

\*Applicants for the special admission quota for the working adults program are exempted from the requirement to take an elective subject.

## 6. EXAMINATION LOCATION

Tohoku University Graduate School of Medicine

Further information will be provided with the examination admission ticket.



## 7. ANNOUNCEMENT OF SUCCESSFUL APPLICANTS & PROCEDURE FOR ADMISSION

- (1) The identification numbers of the successful applicants will be posted at the entrance lobby of Bldg. No. 1 of the School of Medicine at 10:00 on September 5 (Thu), 2019, and also published on the website. For the results of examination, please check the “Notification” which will be mailed later. We cannot answer the examination result on the phone or via email.
- (2) Admission documents will be mailed to successful applicants around early September 2019.
- (3) Fees for admission are as follows:
  - ① Admission Fees: ¥282,000 (expected amount)
  - ② First Semester Tuition: ¥267,900 (Annual Tuition: ¥535,800) (expected)

Explanatory Remarks

  1. The amounts mentioned above may change if fees are revised at school entry or during the period of the applicant’s enrollment, in which case the new amount is effective at the time of change.
  2. Information on exemptions for admission or tuition fees or deferment of fees will be included in the admission procedure document packet that is sent after the announcement of successful applicants.
  3. Successful applicants who expect to complete the master’s degree, doctoral degree (first two years of the doctoral program, i.e., master’s program) or professional degree at Tohoku University are exempt from paying the admission fee.
- (4) Applicants who are employed at the time of admission must submit a letter of consent from their immediate superior at work during the admission procedure.
- (5) The date of registration for admission is October 1, 2019.

## 8. OTHER INFORMATION

- (1) Handling of personal information
  - 1) Personal information collected during the application procedure is used only for the following purposes: admission-screening procedure, admission procedure as well as, after entrance, scholarship/student welfare and study guidance. Personal information is used for no other purpose.
  - 2) Individual information collected during the admission procedure is strictly handled, based on the “Personal Information Protection Regulations of Tohoku University.” Personal information will not be disclosed or offered to a third party without specific prior written approval.
  - 3) Applicants to the Tohoku University Graduate School of Medicine are understood to be in agreement with the content of the statement above.
- (2) Applicants requiring special care during the examination procedures and subsequent schooling should request advice in advance by contacting the Registrar’s Office Graduate School of Medicine Academic Affairs Section. Please submit your “special care” requirement with prescribed form to Academic Affairs Section before June 17, 2019.

May 2019

TOHOKU UNIVERSITY GRADUATE SCHOOL OF MEDICINE  
Graduate Academic Affairs Section  
2-1 Seiryō-machi, Aoba-ku, Sendai  
980-8575 Japan  
Tel: (+81) (0)22-717-8010  
Email Address: m-daigakuin@grp.tohoku.ac.jp

This application information can be viewed at the following website:  
<http://www.med.tohoku.ac.jp/english/admissions/admissions/apply/>

# DESCRIPTION OF GRADUATE SCHOOL PROGRAM

## 1. OBJECTIVE AND MISSION

The main objective of our Graduate School is to train medical researchers to achieve a high standard of independent research activities. With their acquisition of superior research skills and the necessary fundamental knowledge, they will eventually be able to contribute to the development of medicine and improve the welfare of society.

## 2. COURSE OF STUDY AND CURRICULUM

To complete a course of study at our graduate school, students must be enrolled for at least four years and attain 30 or more credits in fundamental knowledge lecture courses, training courses in experimental skills and advanced lecture courses. Also, students will receive the necessary research guidance so that they may complete a doctoral dissertation and successfully pass the review and final examination.

However, students who have acquired the necessary credits and been highly evaluated for their achievements by the Graduate Research Review Committee may complete the course in three or more years.

## 3. RESEARCH SUPERVISION

All students who are admitted into the graduate program will be given research guidance in accordance with the research themes of the departments the students belong to.

Please refer to the Tohoku University Graduate School of Medicine website.

## 4. ADMISSION FEE/TUITION EXEMPTIONS

### (1) Exemption of Admission Fee

Students recognized as being in severe financial difficulties are eligible to apply for exemption from payment of the admission fee (complete exemption or 50% exemption).

### (2) Exemption of Tuition

Students recognized as being in severe financial difficulties are eligible to apply for tuition exemption (complete, 50%, or 1/3 exemption) if they have an excellent academic record.

\*Please refer to the Tohoku University website “The application for admission fee waiver” and “The application for tuition fee waiver”.  
<http://www2.he.tohoku.ac.jp/menjo/>



## 5. INTRODUCTION OF THE PROGRAMS

### (1) General Course

(We will announce it soon.)

### (2)Molecular Imaging Course

Molecular imaging examines behaviors of in-vivo biological systems including genes and proteins. It is involved with new boundary/interdisciplinary areas of medicine, pharmaceutical sciences and engineering. Molecular imaging uses positron emission tomography (PET), magnetic resonance imaging (MRI), optical imaging, etc. Molecular imaging allows viewing changes of biological systems on a molecular base and understanding them dynamically and quantitatively. It is anticipated as a measure to diagnose cancer and dementia such as Alzheimer's disease in a very early stage.

To establish an extremely early diagnosis method based on molecular imaging, there are various technological challenges, e.g., developing equipment and devices in an engineering area, molecular probes in an area of pharmaceutical sciences, and diagnostic modalities in areas of medicine and dentistry.

The course on "molecular imaging" deals with research and education relating to molecular imaging. It targets developing advanced diagnostic modalities by integrating molecular imaging with up-to-date science and technology through not only advanced medicine including radiology, nuclear medicine, pharmacology, oncology, psychiatry, etc., but also through interdisciplinary approaches in the fields of pharmaceutical sciences, engineering and dentistry.

Some programs of this course are conducted in collaboration with the National Institute of Radiological Sciences (NIRS).

### (3) Tumor Training Course

A malignant tumor, cancer, is the most common cause of death in Japan. One half of patients have cancer. Moreover, one third of the patients die from it. Our objective in this course is to train a specialist. The tumor training course is divided into four, i.e., radiation oncology, medical oncology, palliative medicine and surgical oncology. All students study clinical oncology from the general to the particular in lecture classes. They accumulate practical clinical experiences on radiation oncology, medical oncology and palliative medicine at a training class for a regular period. Further, students write research papers relating to clinical oncology. In addition, they deepen their knowledge about up-to-date cancer therapy through a cancer professional joint seminar of the advanced lecture class.

### (4) Medical Physicists Training Course

Advanced large medical machines are used in areas of diagnostic radiology and radiation therapy. Medical physicists are involved in the development of new instrumentation and technology for use in such fields and in the accurate measurement of the radiation output from radiation sources employed in cancer therapy to contribute clinical and scientific advice and resources to solve the numerous and diverse problems that arise continually in many specialized medical areas. Medical physicists are required to get credits in medicine, physics and clinical experience. Graduates of the Department of Radiation Technology in the Health Science Course and those of the Physical or Engineering Faculty are entered into this course. Medical physicists trained in research, education and medical treatment as team members with other medical specialists are trained.

(5) Comprehensive Medicine Course  
(We will announce it soon.)

(6) Network Medicine Course

Teaching based on the New Medical Research Paradigm of Network Medicine  
Network Medicine is a new medical research paradigm advocated by research groups working at Tohoku University, led by the Graduate School of Medicine. The aim of this novel approach is to develop innovative diagnostic, treatment and prevention strategies based on signal transduction networks and to promote the development of teaching and research applicable to different diseases and areas. Network Medicine has been designated as one of Tohoku University's Global Center of Excellence (COE) programs. The Network Medicine Course offers students the opportunity to be taught in English based on results from this latest frontier of medical research.

## 【List of Division and Department】

### DOCTORAL PROGRAM MEDICAL SCIENCES

\* When applying, contact the relevant instructor and obtain permission.

\* ※: No application invited this time.

\* For offered fields (education and research field), please refer to the Tohoku University Graduate School of Medicine website.

Subject with No. for the examination of the field of specialty:

1. Physiology, 2. Pathology, 3. Public Health, 4. Internal Medicine 5. Surgery

Note

A: Candidates who have completed medical internship are preferred.

B: Only candidates who have completed medical internship are eligible.

C: Those who have not completed medical internship are eligible.

General: General Course

Molecular :Molecular Imaging

Medical Physicists:Medical Physicists Training Course

Comprehensive Medicine:Comprehensive Medicine Course

Tumor :Tumor Specialists Training Course

NM:Network Medical Course

Division	Department	Professor	Acceptance						Subject No. designated for examination	Note
			General	Molecular	Medical Physicists	Comprehensive Medicine	Tumor	NM		
Cell Biology	Radiation Biology	Prof. HOSOI Yoshio	○					○	1	C
	Organ Anatomy	Prof. OWADA Yuji	○					○	1	C
	Stem Cell Biology and Histology	Prof. DEZAWA Mari	○					○	1	C
	Molecular Physiology and Metabolism	Prof. SAKAI Juro	○					○	1~5	C
	Biochemistry	Prof. IGARASHI Kazuhiko	○					○	1or2	C
Physiological Sciences	Medical Biochemistry	Prof. YAMAMOTO Masayuki	○					○	1	C
	Neurophysiology	Prof. MUSHIAKE Hajime	※							
	Cell Physiology	Prof. MUSHIAKE Hajime	※							
	Systems Neuroscience	Prof. MUSHIAKE Hajime	○					○	1	C
	Molecular Pharmacology	Prof. YANAI Kazuhiko	※					※		
	Pharmacology	Prof. YANAI Kazuhiko	○	○				○	1~5	C
Pathology	Histopathology	Prof. FURUKAWA Toru	○					○	2	A
	Anatomic Pathology	Prof. SASANO Hironobu	○					○	2	C
	Virology	Prof. OSHITANI Hitoshi	○					○	2	C
	Microbiology and Immunology	Prof. ISHII Naoto	○					○	2	C
	Laboratory Animal Medicine	Prof. MIYOSHI Ichiro	○					○	2	C
	Antibody Drug Development	Prof. KATO Yukinari	○					○	2	C

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Division	Department	Professor	Acceptance						Subject No. designated for examination	Note
			General	Molecular	Medical Physicists	Comprehensive Medicine	Tumor	NM		
Internal Medicine	Nephrology Endocrinology and Vascular Medicine	Prof. HARIGAE Hideo	○					○	4	A
	Hematology and Rheumatology	Prof. HARIGAE Hideo	○					○	4	A
	Infection Control and Laboratory Diagnostics	Prof. HARIGAE Hideo	○					○	4	A
	Diagnostic Radiology	Prof. TAKASE Kei	○					○	4	C
	Radiation Oncology	Prof. JINGU Keiichi	○	○	○		○	○	4	A * "General" and "Tumor" are required to be MD (Medical Doctor)
	Metabolism and Diabetes	Prof. KATAGIRI Hideki	○					○	4	A
	Gastroenterology	Prof. MASAMUNE Atsushi	○					○	4	A
	Cardiovascular Medicine	Prof. SHIMOKAWA Hiroaki	○					○	4	C
	Comprehensive Infection	Prof. ICHINOSE Masakazu	※					※		
	Respiratory Medicine	Prof. ICHINOSE Masakazu	○					○	4	A
Comprehensive Medicine	Prof. ISHII Tadashi	○			○		※	4or5	A	
Reproductive and Developmental Medicine	Pediatrics	Prof. KURE Shigeo	○					○	4	A
	Pediatric Surgery	Prof. NIO Masaki	○					○	5	A
	Gynecology	Prof. YAEGASHI Nobuo	○				○	○	5	A
	Obstetrics and Reproductive Medicine	Prof. YAEGASHI Nobuo	○					○	5	A
Surgery	Gastrointestinal Surgery	Prof. UNNO Michiaki Prof. KAMEI Takashi	○					○	5	A
	Breast and Endocrine Surgery	Prof. ISHIDA Takanori	○				○	○	5	A
	Orthopaedic Surgery	Prof. ITOI Eiji	○					○	5	A
	Cardiovascular Surgery	Prof. SAIKI Yoshikatsu	○					○	5	A
	Urology	Prof. ITO Akihiro	○					○	5	A
	Anesthesiology and Perioperative Medicine	Prof. YAMAUCHI Masanori	○					○	5	A
	Palliative Medicine	Prof. INOUE Akira	○				○	○	5	A
	Emergency and Critical Care Medicine	Prof. KUSHIMOTO Shigeki	○					○	3or4or5	A
Plastic and Reconstructive Surgery	Prof. TACHI Masahiro	○					○	5	A	
Neuroscience and Sensory Organs	Neurology	Prof. AOKI Masashi	○					○	4	A
	Neurosurgery	Prof. TOMINAGA Teiji	○					○	1or5	A
	Neurosurgical Engineering and Translational Neuroscience	Prof. NIIZUMA Kuniyasu	○					○	1or5	A
	Psychiatry	Prof. TOMITA Hiroaki	○					○	1or3or4	C
	Dermatology	Prof. AIBA Setsuya	○					○	4	A
	Ophthalmology	Prof. NAKAZAWA Toru	○					○	5	C
	Otolaryngology-Head and Neck Surgery	Prof. KATORI Yukio	○					○	5	A

## 【List of Division and Department】

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Division	Department	Professor	Acceptance						Subject No. designated for examination	Note	
			General	Molecular	Medical Physicists	Comprehensive Medicine	Tumor	NM			
Health Informatics and Public Health	Epidemiology	Prof. TSUJI Ichiro	○					○	3	A	
	Biostatistics	Prof. YAMAGUCHI Takuhiro	○						3	C	
	Medical Informatics	Prof. NAKAYAMA Masaharu	○					○	3	C	
	Medical Genetics	Prof. AOKI Yoko	○						4	C	
Health Administration and Public Health	Health Administration and Policy	Prof. FUJIMORI Kenji	○					○	3	A	
	Environmental Health Sciences and Molecular Toxicology	Prof. AKAIKE Takaaki	○					○	2or3	C	
	Forensic Medicine	Prof. FUNAYAMA Masato	○						2or3	A	
	Medical Ethics	Prof. ASAI Atsushi	○					○	3	C	
United Centers for Advanced Research and Translational Medicine	Center for Cancer Medicine	Cell Proliferation	Prof. NAKAYAMA Keiko	○					○	1	C
	Center for Neuroscience	Developmental Neuroscience	Prof. OSUMI Noriko	○					○	1	C
	Center for Drug Discovery and Exploratory Clinical Study	Molecular Medicine and Therapy	Prof. MIYATA Toshio	※					※		
	Center for Translational and Advanced Research on Human Disease	Transplantation and Regenerative Medicine	Prof. GOTO Masafumi	○					○	1or5	C
		Clinical Cell Therapy	Prof. ABE Toshiaki	○					○	5	C
		Gene Therapy	Prof. OSUMI Noriko	※					※		
	Center for Prion Diseases	Neurochemistry	Prof. DOH-URA Katsumi	○					○	1or2or4	C
	Neurological Science	Prof. KITAMOTO Tetsuyuki	○					○	2	C	
Disability Sciences	Functional Medical Science	Medicine and Science in Sports and Exercise	Prof. NAGATOMI Ryoichi	○					○	1	C
		Behavioral Medicine	Prof. FUKUDO Shin	○					○	4or1or3or2	C
		Physical Medicine and Rehabilitation	Prof. IZUMI Shin-ichi	○					○	1~5	C
		Epileptology	Prof. NAKASATO Nobukazu	○					○	1~5	C
		Internal Medicine and Rehabilitation Science	Prof. KOHZUKI Masahiro	○					○	1~5	C
		Behavioral Neurology and Cognitive Neuroscience	Prof. SUZUKI Kyoko	○					○	4	A
		Music and Acoustical Medicine	Prof. ICHIE Masayoshi	※					※		
Environment and Genome Research Center	Informative Genetics	Prof. ARIMA Tkahiro	○						○	5	C
	Molecular Epidemiology	Prof. KURIYAMA Shinichi	○						○	3	C
	Development and Environmental Medicine	Prof. NAKAI Kunihiro	※					※			
Tohoku University Hospital	Psychosomatic Medicine	Prof. FUKUDO Shin	○						○	4	A
	Central Operation Division	Prof. KAMEI Takashi	○						○	5	A
	Intensive Care Unit	Prof. SAIKI Yoshikatsu	○						○	5	A
	Pathology	Prof. SASANO Hironobu	○						○	2	A
	Blood Transfusion	Prof. HARIGAE Hideo	○						○	4	C

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### DOCTORAL PROGRAM MEDICAL SCIENCES

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			General	Molecular	Medical Physicists	Comprehensive Medicine	Tumor	NM			
Institute of Development, Aging and Cancer	Aging Control	Gene Expression Regulation	Prof. MOTOHASHI Hozumi	○					○	1or2	C
		Experimental Immunology	Prof. TAKAI Toshiyuki	○					○	1~5	C
		Immunobiology	Prof. OGASAWARA Koetsu	○					○	2or1	C
		Molecular and Cellular Biology	Prof. HORIUCHI Hisanori	○					○	1	C
	Cancer Control	Molecular Oncology	Prof. TANAKA Kozo	○					○	1or2	C
		Cancer Biology	Prof. CHIBA Natsuko	○					○	1or2	C
		Clinical Oncology	Prof. ISHIOKA Chikashi	○				○	○	4	C
		Thoracic Surgery	Prof. OKADA Yoshinori	○					○	5	A
	Brain Sciences	Developmental Neurobiology	Prof. OGURA Toshihiko	○					○	1	C
		Functional Brain Imaging	Prof. KAWASHIMA Ryuta	○					○	1or3or4	C
		Functional Brain Imaging	Prof. SUGIURA Motoaki	○					○	1	C
		Nuclear Medicine and Radiology	Prof. TAKI Yasuyuki	○	○				○	4	C
		Geriatrics and Gerontology	Prof. ARAI Hiroyuki	○					○	4	C
Cell Resource Center for Biomedical Research		Prof. MATSUI Yasuhisa	○					○	1or2	C	
Pre Clinical Research Center	Medical Engineering and Cardiology	Prof. YAMBE Tomoyuki	○					○	4	C	
Cyclotron and Radioisotope Center	Cyclotron Nuclear Medicine	Prof. TASHIRO Manabu	○	○				○	1~5	C	
Biomedical Engineering	Audiology	Prof. KAWASE Tetsuaki	○					○	1or4or5	C	
	Surgical and Molecular Pathophysiology	Prof. FUKUSHIMA Kouhei	○					○	1or2or5	AorC	
	Clinical Biology and Hormonal Regulation	Prof. ABE Takaaki	○					○	4	C	
International Research Institute of Disaster Science	Disaster-related Infectious Disease	Prof. KODAMA Eiichi	○			○		○	1or2or4	C	
	International Cooperation for Disaster Medicine	Prof. EGAWA Shinichi	○					○	3or4or5	A	
	Disaster Psychiatry	Prof. TOMITA Hiroaki	○					○	4or3or2or1	C	
	Disaster Obstetrics and Gynecology	Prof. ITO Kiyoshi	○				○	○	1or2or3or5	C	
	Disaster Public Health	Prof. KURIYAMA Shinichi	○					○	3	C	
	Disaster Medical Informatics	Prof. NAKAYAMA Masaharu	○					○	3	C	
Tohoku Medical Megabank Organization	Community Medical Supports	Feto-Maternal Medical Science	Prof. SUGAWARA Junichi	○					○	3or4or5	C
		Medical Neuroimage Analysis	Prof. TAKI Yasuyuki	※					※		
		脳画像疫学分野	Prof. FUSE Nobuo	※					※		
		Oral Health Science	Prof. TSUBOI Akito	○					○	1	A
	Personalized Prevention and Epidemiology	Personalized Prevention and Epidemiology	Prof. HOZAWA Atsushi	○					○	3	C
		小児発達学分野	Prof. KURE Shigeo	※					※		

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	Department of Biobank	Biobank Life Science	Prof. MINEGISHI Naoko	○					○	1~5	C
	Department of Integrative Genomics	Biomarker Investigation	Prof. FUSE Nobuo	○						3or4or5	C
		Statistical Genomics & Genetics	Prof. TAMIYA Gen	○					○	1	C
	Department of Health Record Informatics	Informatics for Genomic Medicine	Prof. OGISHIMA Souichi	○					○	1~5	C
Collaborative Chairs	Clinical Pharmaceutical Science	Prof. MANO Nariyasu	○						○	1	C
	Clinical Pharmacology and Therapeutics	Undecided	※						※		
	Neuroendocrinology	Prof. ITOI Keiichi	※						※		
	Informatics on Pathophysiology	Prof. KINOUCHI Yoshitaka	○						○	4	A
	Mental Health Science	Prof. ITO Chihiro	○						○	4	A
	Biomedical Imaging	Prof. SAIJO Yoshifumi	○						○	4	A
	Occupational Health	Prof. KUROSAWA Hajime	○						○	4	C
	Oncology, Pharmacy Practice and Sciences	Prof. TOMIOKA Yoshihisa	○						○	1	C
	Pharmacotherapy	Prof. HIRASAWA Noriyasu	○						○	4	C
	Super-network Brain Physiology	Prof. MATSUI Ko	○						○	1	C

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Collaborative Chairs Molecular Neuroimaging	National Institutes for Quantum and Radiological Science and Technology (NIRS)	Prof. SUHARA Tetsuya Prof. HIGUCHI Makoto		○					1or4	C	
Collaborative Chairs Cancer Medical Science	Miyagi Cancer Center Research Institute	Cancer Molecular Biology	Prof. SHIMA Hiroshi Prof. YASUDA Jun	○					○	1~5	C
		Cancer Immunobiology	Prof. TANAKA Nobuyuki	○					○	1~5	C
		Cancer Stem Cell Research	Prof. TAMAI Keiichi	○					○	1~5	C
		Cancer pathology	Prof. SATOH Ikuro	○					○	2	B
		Gynecologic Oncology	Prof. YAMADA Hidekazu	○					○	1~5	AorC
		Urologic Oncology	Prof. KAWAMURA Sadafumi	○					○	5	B
		Pulmonary tumor	Prof. FUKUHARA Tatsuro	○					○	1~5	B
		Head and Neck Oncology	Prof. MATSUURA Kazuto	○					○	5	B
		Cancer Epidemiology and Prevention	Prof. KANEMURA Seiki	○					○	3	C
		Oncovirology	Prof. YAMAGUCHI Kazunori	○					○	1~5	C
Collaborative Chairs Advanced Fetal and Developmental Medicine	Miyagi Children's Hospital	Obstetrics	Prof. MUROTSUKI Jun	○					○	5	C
		Pediatric Neurosurgery	Prof. SHIRANE Reizo	○					○	5	C
		Pediatric Hematology and Oncology	Prof. IMAIZUMI Masue	○					○	4	C
		Pediatric Rehabilitation Medicine	Prof. HAGINOYA Kazuhiro	○					○	4or5	C
Collaborative Chairs Cancer Bioscience	The Cancer Institute of Japanese Foundation for Cancer Research	Cellular and Molecular Imaging of Cancer	Prof. HIROTA Toru	○					○	1or2	C
		Screening for Molecular Target of Cancer	Prof. NODA Tetsuo	○					○	1or2	C
		Oncotherapeutic Medicine	Prof. TAKAHASHI Syunji	○					○	4	B
		Oncotherapeutic Surgery	Prof. SANNO Takeshi	○					○	5	B
Collaborative Chairs Community Psychiatry	Miyagi Psychiatric Center	Undecided	※								
Collaborative Chairs Department of Innovative Cardiology	National Cerebral and Cardiovascular Center	Innovative Cardiovascular Medicine	Prof. YASUDA Satoshi	○					○	4	B
		Innovative Cardiovascular Surgery	Prof. KOBAYASHI Junjiro	○					○	5	B
		Preventive Cardiology and Epidemiology	Prof. MIYAMOTO Yoshihiro	○					○	1~5	C
Collaborative Chairs Community Gastroenterology	Iwaki Kyoritsu Hospital (It will be "IWAKI MEDICAL CENTER" in December 2018.)		Prof. AIZAWA Toshitake	○					○	5	A
			Prof. SUGI Masafumi	○					○	4	A
			Prof. TAKAHASHI Seiichi	○					○	4	A
			Prof. YOSHIDA Hiroshi	○					○	5	A
			Prof. Kamiyama Takamichi	○					○	5	A
Collaborative Chairs Global infectious diseases	National Institute of Infectious Diseases	Infection and Pathology	Prof. HASEGAWA Hideki	○					○	2	C
		Infection and Microbiology	Prof. OHNISHI Makoto	○					○	2	C



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Collaborative Chairs Preemptive Medicine in Northern Miyagi	Osaki Citizen Hospital	Prof. MINAMI Naoyoshi	○					○	4	B
		Prof. GAMOH Makio								
		Prof. IWABUCHI Kaoru								
		Prof. SHIMIZU Hiroshi								
		Prof. TSUBOI Masahiro								
		Prof. NAMIKI Kenji	○					○	5	B
		Prof. IMAIZUMI Hideki								
		Prof. KONNO Fumihiko								
		Prof. YOSHIDA Ryuichi								
		Prof. YOSHIDA Masahiro								
Prof. WAGATSUMA Satoshige										
Prof. SHIMADA Kazuyoshi										
Collaborative Chairs Advanced Pediatric Medicine	National Center for Child Health and Development	Prof. MATSUBARA Yoichi	※					※		
		Prof. UMEZAWA Akihiro	○					○	2	C
		Prof. SAGO Haruhiko	○					○	5	B
		Prof. FUKAMI Maki	○					○	4	C
Collaborative Chairs Emerging and Reemerging Infectious Diseases	National Center for Global Health and Medicine	Prof. OHMAGARI Norio	○					○	4	A
Collaborative Chairs Advanced Nuclear Medicine and Molecular Imaging	National Center for Global Health and Medicine	Prof. MINAMIMOTO Ryogo	○					○	4	C
Collaborative Chairs Cognitive and motor dysfunction in aging	Sendai Nishitaga Hospital	Prof. TAKEDA Atsushi	○					○	1~5	C
Collaborative Chairs Comprehensive medicine for kidney disease-related disorder	Japan Community Health care Organization Sendai Hospital	Prof. SATO Toshinobu	○					○	4or5	B
Collaborative Chairs Neurological and Psychiatric Sciences	National Center of Neurology and Psychiatry	Prof. IWASAKI Masaki	○					○	5	A
		Prof. TAKAHASHI Yuji	○					○	4	A
		Prof. SASAKI Masayuki	○					○	4	A
		Prof. SATO Noriko	○					○	4	C
		Prof. SAITO Yuko	○					○	2or4or5	C
		Prof. KUNUGI Hiroshi	○					○	1~4	C
		Prof. KIM Yoshiharu	○					○	1~5	C
		Prof. YAMANOUCHI Yoshio	○					○	3or4	C
		Prof. ANDO Tetsuya	○					○	3or4	C
		Prof. KOMAKI Hirofumi	○					○	4	A
Collaborative Chairs Department of Clinical Respiratory and Infectious Diseases	Kurihara Central Hospital	Prof. HIRAKATA Yoichi	※					※		
		Prof. USAMI Osamu	○					○		

# Endowed Departments

Students can receive research instruction from a professor of the endowed chair below.

(They cannot belong to following laboratories)

Division	Professor
Department of Electromagnetic Neurophysiology (RICOH)	Prof. NAKASATO Nobukazu
Department of Kanpo and Integrative Medicine	Prof. ISHII Tadashi Prof. TAKAYAMA Makoto
Department of Antibody Drug Development	Prof. KATO Yukinari
Innovative Cardiovascular Medicine	Prof. SAIKI Yoshikatsu Prof. SHIMOKAWA Hiroaki
Evidence-based Cardiovascular Medicine	Prof. NAKAYAMA Masaharu Prof. SHIMOKAWA Hiroaki
Advanced Preventive Medicine for Infectious Disease	Prof. YAMAYA Mutsuo
Advanced Ophthalmic Medicine	Prof. NAKAZAWA Toru
Research Division of Sciences for Aortic Disease	Prof. SAIKI Yoshikatsu
Reconstruction in Sports activity and motor function	Prof. ITOI Eiji
Preventive Psychiatry	Prof. IGARASHI Kazuhiko
Retinal Disease Control, Ophthalmology	Prof. NAKAZAWA Toru
Clinical Hypertension, Endocrinology and Metabolism	Prof. SATO Fumitoshi
Ophthalmic Imaging and Information Analytics	Prof. NAKAZAWA Toru
Advanced Respiratory Management	Prof. ICHINOSE Masakazu
General Practitioner Development	Prof. ISHII Tadashi
Institute of Development, Aging and Cancer: Research Division for Development of Anti-Infective Agents	Prof. WATANABE Akira
Institute of Development, Aging and Cancer: Division of Developmental Cognitive Neuroscience	Prof. KAWASHIMA Ryuta
Institute of Development, Aging and Cancer: Division of Geriatric Pharmacotherapy	Prof. KAWASHIMA Ryuta
Cyclotron and Radioisotope Center: Geriatric Behavioral Neurology	Prof. MEGURO Kenichi