

STUDENT ADMISSION INFORMATION
FOR 2021
(Second Selection)



MASTER'S PROGRAMS

in

MEDICAL SCIENCES

DISABILITY SCIENCES

SCHOOL OF PUBLIC HEALTH

Application period	① December 7 (Mon), 2020— December 14 (Mon), 2020	prescreening
	② December 18(Fri), 2020—January 4(Mon), 2021	
Entrance examination	January 22(Fri), 2021	
Announcement of successful applicants	February 12(Fri), 2021	
Registration for admission	April 1, 2021	

TOHOKU UNIVERSITY

GRADUATE SCHOOL OF MEDICINE

November 2020

The English translations are provided only for reference purposes to aid in the understanding of the Japanese originals. In the case of a discrepancy between the Japanese original and its English translation, the former shall take precedence.

P u r p o s e o f O u r S c h o o l

Tohoku University Graduate School of Medicine aims to promote advanced, interdisciplinary and creative research in medicine and health sciences, and to develop outstanding researchers, medical and health care leaders and practitioners with advanced medical knowledge, skills and a rich humanity, thereby contributing to the health and welfare of people in Japan and around the world.

Admissions Policy

Medical Sciences

We are looking for students aim to be a researcher or educator who will contribute to the development of the basic medical field and medical science industry.

Disability Sciences

We are looking for students aim to be a researcher, advanced professional or educator who will contribute to academic research and social practice in disability science and rehabilitation-related fields.

Health Sciences

We are looking for students aim to be a researcher or an educator who will contribute to the international community with the necessary abilities to conduct research activities, or engage independently in work related to nursing, radiological science, or laboratory science.

School of Public Health

We are looking for students aim to be a researcher, advanced professional or educator who will contribute to academic research and social practice in public health fields.

The Tohoku University Graduate School of Medicine is seeking students for the Master's Program according to the following guidelines:

1. Number of Openings for Students

MAJOR	NUMBER OF OPENINGS
I Medical Sciences	A few
II Disability Sciences	15
IV School of Public Health	A few

*Course of Health Sciences are not opening this time.

2. COURSE

MAJOR	COURSE
I Medical Sciences	(1) General Course
	(2) International Course of "Public Health Science for Human Security" (the course by English for students studying abroad)
	(3) Molecular Imaging Course
	(4) Disaster Medicine and Health Care Course
	(5) Basic Medicine Course (the course by English for students studying abroad)
II Disability Sciences	General Course
III School of Public Health	(1) General Course
	(2) Course to Train High-Level Clinical Research Administrators
	(3) One-Year Course to train Physicians and Dentists for Clinical Research
	(4) Leadership Training Course in Medical Ethics and Public Health
	(5) Disaster Medicine and Health Care Management Course
	(6) International Course of "Public Health Science for Human Security"

* "Medical Physicists Training Course" and "Course in Public Health and Genetic Counseling" are not opening for student recruitment this time.

*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

3. ADMISSION REQUIREMENTS

Applicants for the master's programs must satisfy one of the following conditions:

- (1) Those who have graduated from a university (including those who are expected to graduate by March 2021)
- (2) Those who have been conferred a baccalaureate degree (including those who are expected to be conferred the degree by March 2021) as stipulated by Article 104, Paragraph 4 of the School Education Act (Act No. 26 of 1947, hereafter referred to as "the Law")

- (3) Those who have completed 16 years of education in a foreign country (including those who are expected to complete this education by March 2021)
- (4) 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 who are expected to have completed said courses by March 2021
- (5) Those who have completed or are expected to complete 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 by March 2021 (this applies solely to those who have completed 16 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 three 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 March 2021)
- (7) Those who have successfully completed or, by the date designated by the Ministry of Education, Culture, Sports, Science and Technology, are expected to complete a specialized course specifically designated by the Ministry of Education, Culture, Sports, Science and Technology at a vocational school (whose minimum period required for graduation is four years or longer and that also satisfies other conditions specified by the Ministry of Education, Culture, Sports, Science and Technology) by March 2021
- (8) Those designated by the Ministry of Education, Culture, Sports, Science and Technology (refer to Public Notice of the Ministry of Education No. 5 of 1953)
- (9) Those who have been enrolled in a university for at least 3 years, those who have completed 15 years of formal education in countries other than Japan, those who have completed 15 years of education in a foreign country through correspondence courses provided in Japan by a foreign school of the said country, or those who have completed a program in an educational facility in Japan designated by the Ministry of Education, Culture, Sports, Science and Technology to provide courses from a foreign university within the school system of a foreign country (this applies solely to those who have completed 15 years of education in said foreign country), and those who have been recognized by this graduate school as having acquired the specified credits with outstanding performance by March 2021
- (10) Those who entered another graduate school 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
- (11) Those who will be at least 22 years old by March 2021 and whom this graduate school has authorized, through individual screening of entrance qualifications, as having abilities that are at least equivalent to those of a university graduate

(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.

In the case of a foreigner, please confirm the entrance qualification to the Graduate Academic Affairs Section, Graduate School of Medicine before submitting the application form.

Applicants eligible for “One-Year Course to train Physicians and Dentists for Clinical Research” in School of Public Health are either medical doctor or dental doctor in

Japan who finished their clinical training authorized by Japan Government.

A university mentioned in item (1), (9) and (11) refers to a 4-year university in Japan.

Applicants who satisfy the conditions for items (6), (9), (10) or (11), must pass the preliminary screening for admissions.

a. Application Period for preliminary screening

December 7 (Mon), 2020— December 14 (Wed), 2020

b. Those who wish to take the preliminary screening should contact the Graduate Academic Affairs Section, Graduate School of Medicine 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>

4. APPLICATION PROCEDURE

Applicants shall download the necessary document forms and submit the documentation specified in the following Section (3) to the admission office and fill the web form 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 (by visiting the prospective professors for interview), and receive approval.

Please note that we are not available on Saturdays, Sundays, holidays, weekdays from 12:45pm to 1:45pm, 5pm to 9am, and the year-end and New Year's holidays (December 26 to January 3).

They are required to both send the documentation and fill out the web forms. The application is not completed by registering the application information on the internet and paying the application fee. They need to post the required documentation within the application period.

* When sending the documentation by post, please be sure to send them by express registered mail.

(1) APPLICATION PERIOD

From ② December 18(Fri), 2020 to January 4(Mon), 2021

<Submission deadline>

(a) Web forms: Please enter the web forms before submitting (b) Application document.
December 25 (Fri), 2020. 17:00, JST. (Japanese Standard Time)

(b) Application documents
January 4 (Mon), 2021. 17:00, JST. (Postmarked)

Note : Please submit (a)web form first.

Please send the documents by registered and express delivery.

If applicants send the documents from overseas countries, please also send the all documents via e-mail to Graduate Academic Affairs Section.

Please be sure that applicants need to do both submitting documents and filling out the web form. The application procedure does NOT complete with just one of them.

(2) WHERE TO SEND:

Graduate Academic Affairs Section, Academic Affairs Office
Tohoku University Graduate School of Medicine
2-1 Seiryomachi, Aoba-ku, Sendai

980-8575 Japan

Tel: (+81) 22-717-8010

Email Address: m-daigakuin@grp.tohoku.ac.jp

(3) APPLICATION DOCUMENTS

Applicants must submit both “Web forms” and “Application documents” by the deadline.

- Web forms (a) : Enter the required information in these two Web forms and sent them by the deadline.

DOCUMENTS	PARTICULARS
APPLICATION FOR ADMISSION	Fill out the prescribed form below directly (No need to submit by paper-based.) https://forms.gle/UZs72DatGnjghntQ9 * Deadline: December 25 (Fri), 2020, 17:00, JST.
ONLINE EXAM INFORMATION FORM	Fill out the prescribed form below directly (No need to submit by paper-based.) https://forms.gle/K1MhuQKLZQzv4BzT9 * Deadline: December 25 (Fri), 2020, 17:00, JST.

* In these forms, you cannot save your entries, so please start to entry with enough time.

* If you cannot fill out the form due to living abroad, please contact Graduate Academic Affairs section.

- Application documents (b) :

Download the prescribed form from the website of the Graduate School of Medicine “<https://www.med.tohoku.ac.jp/english/admissions/admissions/apply/index.html>”, and print it out on white (recycled paper is available) A4-sized paper (one side printing). Applicants must submit all application documents via post by the deadline.

* We strongly recommend all applicants should send electronic files of application documents by email as well, considering that delivery might be affected by COVID-19 situation.

DOCUMENTS	PARTICULARS
ASPIRATIONS, MOTIVES, REASONS AND AMBITIONS	a Graduate School prescribed form.(Download from the website) *Approximately 500 words long
EXAM ADMISSION TICKET. PHOTO ID TICKET	a Graduate School prescribed form.(Download from the website) ,with a recently taken photo affixed *Each photo should be 4cm in length x 3cm in width
PHOTOGRAPH OF THE APPLICANT	1 sheet (Write your name on the back.) *Photographs must be taken within the last three months of the application, and the applicant must be wearing no hat and facing the front. *Each photo should be 4cm in length x 3cm in width
ENVELOPE FOR MAILING EXAM ADMISSION TICKET	(1) If you live in Japan. Please enclose a commercially available Choukei 3 Gou envelope (23.5 cm, 12 cm) with your name, mailing address, and postal code, with a stamp for 374 JPY. (2)If you live in oversea countries. Please enclose an envelope bigger than above one with your name and your prospective department name.

<p>TRANSCRIPT OF ACADEMIC RECORDS</p>	<p>Submit an official transcript of academic records issued by the president (dean) of your graduating university (graduate school) with the appropriate official seal. (Should within sealed envelope.) *Not required for graduates of Tohoku University School of Medicine.</p>
<p>English score record. * < Your foreign language (English) proficiency is evaluated on TOEIC TOEFL, IELTS or Duolingo English Test ></p>	<p>Please submit the official document(s) verifying that the result(s) of your TOEIC, TOEFL iBT or IELTS test were achieved from a test taken within two years of Tohoku university entrance exam. Additionally, TOEFL iBT ® Special Home Edition and Duolingo English Test are also available. We don't return your score sheets submitted in principle.</p> <p>*Result from non-public tests will not be accepted.(ex:TOEFL ITP,TOEIC IP) *In the case of TOEIC, please submit the original copy of your official score certificate. In case of IELTS, please submit the original copy of your official result transcript. *Our DI Code of the TOEFL is "3332". *In case taking the Duolingo English Test, you will be asked to select the school to which you want to apply, please select our Graduate school in that section. Sometimes it will take a long time to get a result or the test may not be approved, so please take the test with enough time to spare. * If it is difficult to submit the original official score certificate by deadline, we accept a copy, such as web-caption of the score etc, as a special measure. However, all applicants MUST submit the original score certificate (must be paper-printed) when it becomes available. We do not accept any updates/ replacement of the score of the English test once it's submitted.</p> <p>(TOEFL, TOEFL iBT, TOEFL ITP and TOEIC are registered trademarks of Educational Testing Service (ETS).)</p>
<p>PLEDGE OF TAKING ONLINE EXAMINATION</p>	<p>a Graduate School prescribed application form.(Download from the website) *Please print out the document, check the contents, sign and fill in the day of your pledge.</p>
<p>APPLICATION FEE, ¥30,000</p>	<p>The application fee is 30,000JPY. Please Send it by Postal Money Order (普通為替証書) . *Do not fill in the space for the recipient. *MEXT Scholarship students are not required to pay the application fee. * Only for the international applicants who reside abroad and have a difficulty in paying by Postal Money Order (普通為替証書), the payment by credit card is acceptable, If you wish to use a credit card please contact Graduate Academic Affairs Section first.</p>
<p>FEE PAYMENT SLIP</p>	<p>a Graduate School prescribed application form.(Download from the website) Applicant's name should be entered on the slip (in two places). *MEXT Scholarship students are not required to submit the fee payment slip.</p>
<p>CERTIFICATE OF COMPLETION (EXPECTED COMPLETION), ETC.</p>	<p>Certificate of the completion (expected completion) of a bachelor degree or a certificate of the conferral (expected conferral) of a bachelor degree. *Graduates of Tohoku University School of Medicine are not required to submit this form.</p>
<p>A COPY OF RESIDENT'S CARD (ONLY STUDENT STUDYING ABROAD)</p>	<p>Candidates who stay in Japan (whose stay is over 90 days) must submit your copy of resident's card (both front and back) at the application.</p>

RETURN ENVELOPE FOR RECEIVING PASS/FAIL NOTICE	<p>(1) If you live in Japan. Please enclose a commercially available Kakugata 2 Gou envelope (33.2 cm, 24 cm) with your name, mailing address, and postal code, with a stamp for 140 JPY.</p> <p>(2) If you live in overseas countries. Please enclose an envelope bigger than above one with your name and your prospective department name.</p>
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IMPORTANT

- ① Any blank spaces or irregularities found in applications may result in rejection of the application so applicants should exercise great care when filling out the application form.
- ② If any of the information in an application is found to be false, it may result in cancellation of admission if the applicant is initially accepted.
- ③ The application fee is non-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 will be evaluated based on the following perspectives.

- ① The official score certificate of the English proficiency test (TOEIC, TOEFL, IELTS etc.) official score certificate
- ② Online oral examination score
- ③ Application documents

(2) ENTRANCE EXAMINATION DATE/TIME & SUBJECTS

DATE	TYPE OF TEST	TIME	SUBJECTS
January 22 (Fri), 2021	Online Oral Examination	from 10:00 (Japanese Standard Time)	Fundamental knowledge on related sciences etc. and interview

* We do NOT hold a written exam in this year.

* For more details, please check the documents we send later.

* We will announce the timetable later individually.

* If the Graduate School of Medicine determines that the above selection process cannot be carried out safely and fairly from the standpoint of epidemic prevention against the COVID-19, we may change the selection schedule and process. Please note that any changes will be announced on the Graduate School's website as well as sent to the applicant's email addresses provided in the application form.

(3) EVALUATION OF FOREIGN LANGUAGE (ENGLISH)

Your score of TOEIC, TOEFL IELTS etc. submitted at the application is converted into the normal score. If several score records are provided, the higher record is used for evaluation after the conversation.

(4) DEPARTMENT ASSIGNMENT

Although there is no limit set on the quota to each department, we must limit the number of students we accept in the event of too many applicants applying for one department.

If you will not be assigned to the department of your first choice, but wish to be assigned to another department, please be sure to fill in your second and subsequent choices on the application form. (If you do not wish to be assigned to other than your first choice, you do not need to fill in the form.)

Please note that the entry of your second and subsequent choices will not affect your placement in the department of your first choice at all.

6. LOCATION OF EXAMINATION

To prevent the spread of the COVID-19, the examination location will be a private room at each examinee's home etc.

We strongly request you to prepare the equipment and environment to take the online examination by yourself.

For those who are unable to take the examination by themselves due to unavoidable circumstances, it is possible to take the online examination from a designated location at the Graduate School of Medicine.

However, if you wish to take the examination at the Graduate School of Medicine, please follow the attached "Request for the Prevention of the COVID-19 and Improvement of the Safe Environment for the Entrance Examination for AY2021".

- ① Upon the examination, you should display your face on a monitor. Please use a computer, tablet, smartphone, etc. which is equipped with a web camera and microphone. Please use a clear video/audio device as much as possible. Headsets, earphones, external microphones, etc. are allowed to use.
- ② We will use Zoom to communicate with you. Please make sure the latest version of Zoom is installed on your device and be familiar with operating the Zoom Meeting. Upon the examination, you should display your full name on the monitor, which is the same as the exam ticket (DO NOT use nicknames, initials, etc.). The Virtual background is not allowed.
- ③ Please prepare a quiet environment for the exam, such as at home, at the office or hotel room, where you will not be disturbed.
- ④ Please prepare a stable Wi-Fi or wired LAN connection. If you do not have a good online environment, consider using rental Wi-Fi. Please prepare several devices because the prepared device may not work. Note that you are not allowed to take the examination in open spaces such as restaurants, convenience stores, Internet cafes, and public facilities (except the laboratories on university campuses).

* If the Graduate School of Medicine determines that the above selection process cannot be carried out safely and fairly from the standpoint of epidemic prevention against the COVID-19, we may change the selection process, such as not allowing applicants to come to the Graduate School of Medicine and strictly requiring to take online examinations at home, etc. Please note that any changes will be announced on the Graduate School's website as well as sent to the applicant's email addresses provided in the application form.

[Flow of the online examination]

(1) Take the examination at your prepared location :

- ① Please access to the exam room (Zoom Meeting room) through the designated URL (which will be sent to you later) at least 10 minutes before the scheduled time, then wait at the "waiting room" until the examiner allows. In case you are unable to join the Zoom Meeting, please call the Online Exam Emergency Support (the phone no. will be announced later) and follow the instructions.
- ② Once you enter the Zoom Meeting, turn on your video camera and microphone, then follow the instructions of the examiner.
- ③ If you lose the connection during the examination, please try to re-enter the Zoom Meeting using the same URL and continue your exam. If you are unable to continue, call Online Exam Emergency Support immediately and follow the instructions.
- ④ When the examiner announces the end of the test, exit from the Zoom meeting immediately. (The examiner may control to exit from the meeting.)

(2) Take the examination at the university:

- ① You must arrive at the designated location by the appointed time (information will be provided later). After the reception, follow the instructions of the staff and move to the room where you will take the online examination.

- ② Take your seat in front of the PC and wait until the next instructions.
- ③ Once you are allowed to enter the Zoom meeting, turn on your video camera and microphone, then follow the instructions of the examiner.
- ④ If you lose the connection during the examination, please try to re-enter the Zoom meeting using the same URL and continue your exam. If you are unable to continue, please follow the instruction of the staff.
- ⑤ When the examiner announces the end of the test, please exit from the Zoom meeting immediately. Follow the instruction of the staff to exit the room.

[To prevent fraud]

To prevent fraud, please cooperate with us in the following points. In case we find out that you have committed fraud, we will cancel your admission even after you have been enrolled.

- ① The test may be recorded for fraud verification purposes.
- ② Besides the examination ticket, the examiner may ask you to present extra ID with a photo (driver's license, passport, my number card, student ID card, etc.) to confirm your identity upon the examination. Thus please prepare them as well.
- ③ Throughout the examination, your eyes and hands should be visible through the camera. Any unnatural gaze, facing, or finger motions or anything that hides your face from the camera screen will be considered fraudulent.
- ④ You are not allowed to record the exam in any way. If we find it out, we will consider it as a fraud. Also, you are not allowed to say anything about the exam afterward.

7. ANNOUNCEMENT OF SUCCESSFUL APPLICANTS & PROCEDURE FOR ADMISSION

- (1) The identification numbers of the successful applicants will be published on the website at 10:00 on September 3 (Thu), 2020. 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 by the beginning of March 2021.
- (3) Fees for admission are as follows:
 - Admission fee: ¥282,000 (expected)
 - First semester tuition: ¥267,900 (annual tuition: ¥535,800) (expected)
 (Explanatory Remarks)
 1. The amounts mentioned above may change if the fees are revised at school entry or during the period of the applicant's enrollment, in which case the new payment system will be applicable.
 2. Information on exemptions from payment of admission or tuition fees or deferment of fees will be provided in the admission procedure document packet.
- (4) Applicants who are employed at the time of admission must submit a letter of consent from their employer.
- (5) The date of registration for admission is April 1, 2021.

8. OTHER INFORMATION

- (1) We will not be able to respond to any inquiries regarding the address written on the envelopes, so if you are concerned about your application, please make a note of it yourself.

- (2) Past entrance examination papers can be viewed at the Graduate Academic Affairs section office, but it is not possible to take them out or make copies of them. Also, only the questions from the previous year will be made available and no promises will be made regarding the content of the examination or the method of entry questions.
- (3) Handling of personal information
- 1) Personal information collected during the admission procedure is used only for the following purposes: admission-screening procedure, admission procedure as well as, after the entrance, scholarship/student welfare, and study guidance. Personal information will be 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.
- (4) 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 16, 2020.

TOHOKU UNIVERSITY GRADUATE SCHOOL OF MEDICINE

Graduate Academic Affairs Section

2-1 Seiryomachi, Aoba-ku, Sendai

980-8575 Japan

Tel: (+81) 22-717-8010

Email Address: m-daigakuin@grp.tohoku.ac.jp

DESCRIPTION OF GRADUATE SCHOOL PROGRAM

1. OBJECTIVE AND MISSION

I Master's Program in Medical Sciences

Aims at cultivating researchers and educators in medical sciences, and human resources with expertise in medical sciences who can respond to industrial needs in the field of medical sciences.

II Master's Program in Disability Sciences

For students who graduated in an area other than medical-related such as physical education, liberal arts and engineering, aims at cultivating human resources including researchers, teachers, and administrative officials who can make international contributions. For medical specialists such as physical therapists, occupational therapists, and speech therapists, aims at cultivating of leaders such as teachers who can take charge of graduate school education for medical related occupations or who can perform specialized medical rehabilitation.

III Master's Program in Health Sciences

While forming the research and educational base at a global level on health science, aims at contributing to the maintenance and improvement of health as a right of human beings in an advanced welfare society. Accordingly aims at cultivating researchers and educators in health sciences, and advanced medical professionals.

IV Master's Program in School of Public Health

Aims at formulating the education-research center of public health at the world's best standard, and aims at contributing to an advancement of health and welfare for people in Japan as well as all over the world.

Aims at training researchers, professionals and leaders, who have a broad background of public health and a high standard of job specialty and ethics.

2. COURSE OF STUDY AND CURRICULUM

In order to complete the master's programs and receive a degree, students must enroll in the program for two years or longer, and take a predetermined course of studies to acquire 30 credits or more, and have the necessary research supervision, complete a master's thesis and pass the final examination.

I Master's Program in Medical Sciences

Master's degree (Medical Sciences)

II Master's Program in Disability Sciences

Master's degree (Disability Sciences)

III Master's Program in Health Sciences

Course of Nursing Master's degree (Nursing)

Course of Radiological Technology Master's degree (Health sciences)

Course of Medical Laboratory Science Master's degree (Health sciences)

IV Master's Program in School of Public Health

Master's degree (School of Public Health)

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.

(Explanatory Note)

Departments indicated with “※” will not be recruiting students at this time. If you have any question about this department, please contact the following:

Graduate Academic Affairs Section, Educational Affairs Division

Tohoku University Graduate School of Medicine

2-1 Seiryō-machi, Aoba-ku, Sendai

980-8575 Japan

Tel: (+81) 22-717-8010

Email Address: m-daigakuin@grp.tohoku.ac.jp

4. ENTRANCE 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

I Introduction Medical Sciences Master's Programs

Goals and distinctive features

The goals are to raise educators and researchers who can contribute to the development of medicine and medical fields in Japan and international society, and to foster advanced medical professionals who will help realize safe and healthy society, where people can live in relief even when they are sick. To achieve the goals, we address bringing up people who have wide knowledge, flexible ideas, advanced information processing ability, a noble-minded sense of ethics, and practical techniques, unifying basic and clinical medicine education. Especially, the curriculum is composed so that even if the student is a graduate from other than faculty of medicine or related to medicine, he or she can harness the accumulated knowledge and skills, and develop it in the medicine and medical fields.

(1) General

Course Features

Many faculty members in the Graduate School of Medicine are available for guidance. The Graduate School of Medicine has faculty members in all fields related to medicine and medical care. It is possible to learn how to solve problems from a medical point of view from such faculty and to apply what you have learned in your undergraduate education to medicine and medicine. In order to be able to take a bird's eye view of medicine from multiple perspectives, multiple faculty members are in charge of advising papers.

Contents of Education

The curriculum is designed so that students can have a diverse and organic knowledge and practical techniques on basic and clinical medicine, and can determine their way after graduation according to their ability and direction. The students can broadly choose their carrier options.

The curriculum is divided into the following three subjects.

Career Plans after Graduation

- Entrance into the Graduate School of Medicine, Department of Medical Sciences (Doctoral Program).
- Employment at medical treatment and pharmaceutical institutions, and food-related and medical equipment development companies, and public offices (especially medical-related), etc.
- By occupation, they are a medicine researcher, biostatistician, clinical research coordinator, people responsible for medical information, clinical psychologist, psycho oncology specialist, etc.

(2) International Course of “Public Health Science for Human Security”

Course Features

After the cold war ceased in the early 1990's, the concept of “Human Security” has become the primary common concern of international society. The new concept addresses the issues of security of “people”, instead of “nations”, such as illnesses, disasters, poverty, conflicts and so forth. Particularly in developing countries such as some nations in Asia, people's lives and dignity have been threatened by diseases and injuries which are basically not curable because of poverty, natural disasters, poor environmental hygiene, malnutrition and so on. In addition, epidemics and environmental pollution jeopardize human security by crossing border perspectives based on interdisciplinary views and scientific knowledge.

The International Course of “Public Health Science for Human Security” is designed to develop students' comprehension of the closely related factors which affect peoples' lives and also their ability to produce solutions, by integrating the latest knowledge of medical science and international health with the method of the humanities and social sciences. The course further aims to nurture researchers and public health leaders in international society who will contribute to the realization of human security by taking leadership in solving security problems in public health.

This course is based on the “International Post-Graduate in Human Security,” and is conducted in collaboration with three other graduate schools

(Agricultural Science, International Cultural Studies and Environmental Studies), from among which students may select elective courses. All elective and obligatory courses are lectured in English.

Contents of Education

Special Lectures on Human Security A,B, etc.

Career Plans after Graduation

Entrance into the Graduate School of Medicine, Department of Medical Sciences (Doctoral Program).

public offices (especially medical-related), etc

(3)Molecular Imaging

Course Features

Molecular imaging examines the molecular mechanisms of integrated systems in vivo using molecular probes. Many imaging technologies have been and are being developed to achieve these goals, such as optic imaging, magnetic resonance imaging (MRI), positron emission tomography (PET) and so on. Each has unique applications, advantages and limitations. Biomedical engineering, medicine, biology, dentistry and pharmaceutical sciences are joining to build technologies and molecular probes that measure and image molecular biological functions for organ systems. Biologists will benefit from easier movement from isolated molecular, cellular and tissue settings to an in vivo, where functions are directed and constrained by the requirements of organ systems and whole organisms. Patient care will profit from more direct links in the areas of molecular diagnostics and molecular therapeutics.

The special course of “molecular imaging” is designed to develop students’ comprehension of the closely related disciplines on “molecular imaging”, and also the ability to make a possible breakthrough in molecular imaging by integrating the latest knowledge of medical engineering, medicine, biology, density and pharmaceutical sciences. This special course “molecular imaging” mainly focuses on PET, but many issues also apply to other technologies, In addition, the courses focuses on integrative mammalian biology ranging from mice to humans, as well as the transformation of in vivo molecular assays to in vivo imaging. This course in conducted in collaboration with the Graduate Schools of Medicine, Engineering, Pharmaceutical Sciences and Dentistry and the National Institute of Radiological Sciences (NIRS).

Contents of Education

Career Plans after Graduation

Entrance into the Graduate School of Medicine, Department of Medical Sciences (Doctoral Program).

Employment at medical treatment and pharmaceutical institutions, and food-related and medical equipment development companies, etc.

(4) Medical Physicists Training Course

Course Features

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.

Contents of Education

As in the general course, medical ethics, research planning practice, rotation practice, internship practice, mid-term examination, and thesis research are compulsory. In this course, students are required to take Introduction to Molecular Imaging I and II as well as the Molecular Medical Science Program.

Career Plans after Graduation

Entrance into the Graduate School of Medicine, Department of Medical Sciences (Doctoral Program).

Medical, pharmaceutical, and food-related companies, medical equipment development companies, and governmental agencies (especially in the medical field), etc.

University hospitals, public hospitals, etc.

(5) Disaster Medicine and Health Care Course

Course Features

This course is designed to provide the opportunity to scientifically study disaster medicine and health care during and after disasters, such as earthquakes, tsunamis, pandemics, and disasters involving chemical agents, biological agents, radiation/nuclear attacks, or explosives (CBRNE). This course is open mainly to nurses, pharmacists, medical administrative officers, and other medical professionals. Students in this course not only acquire knowledge of disaster-related medical and scientific issues, but also the ability to conduct research related to disaster and humanitarian response through the acquisition of a master degree of medical sciences. This course is designed mainly for Japanese students and is taught only in Japanese.

Educational Content

Disaster medicine and health care seminar, disaster medicine and health care training, disaster sciences

Career Plans after Graduation

An enhanced career in students' respective medical professions

Entrance into doctoral programs in medicine and medical sciences

(6)Basic Medicine (the course by English for students studying abroad)

Course Features

The purpose of this course is instructions of fundamental knowledge and skills of medicine and medical sciences.

Education including every lecture and direction of thesis is conducted in English.

Many lecturers belong to Graduate School of Medicine. Their professional territories cover all aspect of medical research. They instruct students how to learn problem solution approaches through the position of medicine, as well as to expand what students have learned to medical field. Two professors are assigned for thesis advisers for developing diversified mindset.

Contents of Education

Education of this course is comprised of two parts, lectures (including classroom lectures and practical training) and writing a thesis.

At classroom, students learn basic medical knowledge and technique. At practical training, students are able to visit different laboratories to learn more about method for medical research. There are chances to present research results at the midpoint to take advises.

Career Plans after Graduation

- Advancement to doctoral course
- Company related to medical service, drug discovery, food. Public office, especially related to medicine.
- Researchers about medicine or pharmacology. Developers or person in charge of quality control at pharmaceutical company, food company etc.

II Introduction Disability Sciences Master's Programs

Course Features

As technology advances and develops, current healthcare enables life prolongation of patients with refractory diseases. However, the number of people with physical/cognitive dysfunctions is rapidly increasing, and such patients suffer from complicated/multiple disabilities. In this situation, rehabilitation is required to cope with a large variety of diseases, and its methods and roles are changing. Rehabilitation needs new ideas from different viewpoints. Aiming to increase and develop human resources with higher levels of knowledge and rich humanity who can respond to complicated/multiple disabilities, we need to establish an interdisciplinary scientific field incorporating conventional rehabilitation medicine.

In this department, we make efforts to respond to social needs so that those with disabilities can achieve functional recovery, reduced need of nursing care, social rehabilitation and resettlement. We also attempt to explore new treatment, rehabilitation and nursing care techniques and establish new healthcare systems including analysis, assessment and prevention of various disabilities. In order to attain these goals, we introduce medicine & science in sports & exercise, physical engineering, neuroscience, neuropsychology, epileptology, behavioral medicine, musical acoustic medicine, and biomechatronics into conventional rehabilitation medicine, in order to unify the basic and clinical fields. In this manner, we promote a wider range of educational/research activities.

The educational distinction is to give graduate school education on "disability sciences" to the following students:

- those who graduate from specialized areas other than medical fields such as gymnastics, pharmacology, life science, agricultural science, health science, nursing, nutritional science, psychology, education, liberal arts, engineering, music etc.
- those who work as healthcare professionals such as physiotherapists, occupational therapists, speech therapists, clinical laboratory technicians and nurses, and music therapists.

Since its establishment in 1994, this department has been positioned as the only department of disability sciences among the medical research courses of graduate schools in Japan. In this department, researchers have been consistently engaged in various scientific programs focusing on the identification of causes of physical/cognitive dysfunctions, prevention of disabilities and rehabilitation.

We aim to develop human resources that can continue to promote research activities independently and contribute to international society by learning new disability sciences, receiving rehabilitation education, and accumulating the ability needed for the provision of healthcare. In this department, we promote research activities aimed at developing the confidence of researchers/instructors/administrators who are familiar with these fields and senior instructors who can provide professional rehabilitation.

Contents of Education

Introduction and training of Medicine and Science in Sports and Exercise, Behavioral Medicine, Physical Medicine and Rehabilitation, Restorative Neuromuscular Rehabilitation, Epileptology, Internal Medicine and Rehabilitation Science, Behavioral Neurology and Cognitive Neuroscience, Fetal Pathology, etc.

Career Plans after Graduation

The employment opportunities for the graduates are satisfactory because our globally unique research activities focusing on disability sciences perfectly match current social needs. Many seniors have already been engaged in various professional fields and have played important roles in universities and research institutes in Japan and foreign countries.

- (1) Researcher of disability sciences
- (2) Educator/leader of disability sciences
- (3) Researchers of neuroscience and medical science
- (4) 4-year university teaching staff for medical related occupations (physical therapist, occupational therapist, nurse, etc.)
- (5) Administrative official who has professional expertise in disability sciences
- (6) Pharmaceutical companies, general companies, public servants

III Introduction Health Sciences Master's Programs

The students aim to be advanced professionals, and educators and researchers. We accept students from other fields as well as graduates from the health sciences fields.

There are many students from the workforce entering this Department, and we support them with such as long-term learning, lectures at night and seminars. There is a way to qualify to take the entrance examination by the preliminary review prior to the graduate school examination for those who graduate from a medical junior college and have work experience.

The Department of Health Sciences is divided into three courses by the curriculum. For completion, the student must obtain 30 credits in core and elective subjects in lectures and master's thesis preparation (thesis research).

In each course, the student must acquire more than two credits from the common elective subjects including the subjects specified in each course.

Thesis research is ten credits. Select the field to major in and the instructor for the thesis. The remaining credits are acquired from the special subjects in each field. Students of the nursing course need to acquire more than eight credits and those of the radiological technology course and the Medical Laboratory Science course need to acquire more than ten credits.

(1) Nursing Course:

① General

Course Features

The General Nursing Course is divided into the two domains of Advanced Nursing Practice and Health Development Nursing, and Family Nursing, which are then subdivided into the 12 specialties of Science of Nursing Practice, Nursing Education and Administration, Gerontological and Home Healthcare Nursing, Nursing Science of Community Health Care System, Community Health, Public Health Nursing, Adult Health Nursing, Oncology Nursing, Palliative Nursing, Child Health Nursing, Psychiatric Nursing, Department of Women's Health Nursing & Midwifery. Advanced Nursing Practice and Health Development Nursing is the domain for research and education on development and assessment of nursing skills, construction of nursing theory needed for promoting public health and supporting independent life, management of nursing education, the establishment of nursing ethics, promotion of the individual, group and community health. Family Nursing is the domain for research and education on the methods for retaining, improving and supporting the family function on the basis of family unit as the target of nursing and the properties and life events of the family unit. Access our website, etc. for the research detailed research in each field. Students who have nurse licenses and aim to be certified nurse specialists, can study through the curriculums of oncology nursing and pediatric nursing.

Contents of Education

Nursing Research Methodology, Nursing Science, Medical Ethics, Nursing Ethics, Medical and Nursing Policy, Medical Education, Statistics for Nursing Research, Medical Statistics, etc.

Career Plans after Graduation

- Enter the Doctoral Program of Graduate School of Medicine, or other Department or doctoral programs in other university
- Teachers at universities
- Health nurse, birth attendant, nurse, clinical radiologist, clinical laboratory technologist at a university hospital or public hospital

② Course of Public Health Nurse Training

Course Features

The qualifications and skills required for a public health nurse working in local communities change with each generation. In the present day where health issues are becoming increasingly complex as our lifestyles and values are more diversified, public health nurses need to have even more advanced practical and research skills to analyze the factors of these issues from their relation with society and the environment, and endeavor to resolve and improve them with the cooperation of local residents and professional groups. Also required is the capability to work as a high-level professional demonstrating leadership in

carrying out support activities for disaster-affected areas of the Tohoku coastal region. From April 2014, Tohoku University is offering a Public Health Nurse Training Course in the Graduate School Doctor of Health Sciences Course (first term two-year program) for people aiming to become public health nurses or who want to improve their skills as public health nurses.

Contents of Education

Public health nursing, community care system nursing, epidemiology, health statistics, public philosophy, practical training (administration, school, industry), problem research, etc.

Career Plans after Graduation

- Enter the Doctoral Program of Graduate School of Medicine, or other Department or doctoral programs in other university
- As a public health nurse, the local public body (health and medical welfare administrative organization)

(2) Radiological Technology Course:

① General

Course Features

The Radiological Technology Course is divided into two domains of Fundamental Radiological Science and Clinical Radiological Science, which are subdivided into seven specialties of Noninvasive Diagnostic Imaging, Radiological Imaging and Informatics, Clinical Radiological Science, Diagnostic Image Processing, Diagnostic Image Analysis, Radiological Examination and Technology, and Therapeutic Radiology. Fundamental Radiological Science promotes the basic and applied research required to develop diagnostic imaging device, medical treatment equipment, and their applied technologies. Clinical Radiological Science is the domain to research and educate on broad diagnostic technologies used for various clinical diagnostic imaging, nuclear medicine technologies as functional diagnosis, quality control and assurance in radiodiagnosis and radiotherapy, and medical physics of a radiotherapy planning system, oncology, and radiobiology. Refer to the Website, etc. for detailed research in each field. Students aim to be a medical physicist, can learn by the curriculum centering on therapeutic radiology.

Contents of Education

In the common elective courses, students learn a wide range of specialized knowledge in medicine and health science. Also, Students can take more specialized courses such as Advanced Medical Physics, Advanced Image Informatics, Advanced Medical Image Engineering, Advanced Image Diagnostics, Advanced Image Analysis, Radiology, and Radiotherapy, as well as more clinical training in diagnostic imaging techniques and radiology. In thesis research, students will receive research guidance from the faculty member in charge and compile a master's degree thesis to acquire professional research skills.

Career Plans after Graduation

- Enter the Doctoral Program of Graduate School of Medicine, or other Department or doctoral programs in other university
- Teachers at universities
- Clinical radiologist, at a university hospital or public hospital
- Engineer at a local public body or pharmaceutical company

② Medical Physicists Training Course

Course Features

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.

Contents of Education

Students who graduated from the Department of Health Sciences are required to take courses in science and technology, and students who graduated from the Department of Science and Technology are required to take courses in medicine and health sciences. Upon completion of the course, students of both ethnic backgrounds will be able to take the same amount of courses.

Career Plans after Graduation

- Clinical radiologist, at a university hospital or public hospital

(3) Medical Laboratory Science Course:

Course Features

The Medical Laboratory Science Course is divided into two domains of Laboratory Medicine and Science, and Laboratory Medicine and Clinical Science, which are subdivided into seven specialties of Molecular and Functional Dynamics, Medical Microbiology, Mycology and Immunology, Endocrinology and Applied Medical Science, Pathology and Histotechnology, Clinical Physiology, Molecular Hematology, and Pathophysiology. Laboratory Medicine and Science is the domain for fundamental research and education for laboratory medicine and science including basic research in the areas of molecular biology, molecular genetics, analytical chemistry, infection and immunity, endocrinology and metabolism, and applied research that lays emphasis on basic research.

Laboratory Medicine and Clinical Science is the domain especially for advanced research and education aiming at clinical applications in areas that meet more clinical settings such as pathology and histotechnology, clinical physiology, pathophysiology. Refer to the website, etc. for detailed research in each field.

Contents of Education

It consists of seminars I and II in each field for the acquisition of research ability and expertise, special lectures and experimental training for the acquisition of experimental techniques.

Career Plans after Graduation

- Enter the Doctoral Program of Graduate School of Medicine, or other Department or doctoral programs in other university
- Teachers at universities
- Clinical laboratory technologist at a university hospital or public hospital
- Engineer at a local public body or pharmaceutical company

IV Introduction to the School of Public Health Master's Program

Course Features

Health issues are becoming more diverse and complex, and genomic science is making rapid progress. On the other hand, there is a shortage of human resources to promote advanced clinical research. Under these circumstances, there is an urgent need to develop human resources who have the skills to understand and solve individual health problems from the perspective of the social environment and a sense of mission to achieve better health for both individuals and society - a background in public health. The Department of Public Health aims to contribute to the improvement of the health and welfare of people in Japan and around the world by forming an educational and research center of the world's highest standards in public health. The department aims to train researchers with a background in public health and a high level of professionalism and professional ethics, as well as leaders and practitioners, especially leading-edge interdisciplinary researchers in public health.

In the School of Public Health, we have two divisions, Information Health Medicine and Public Health Medicine, with eight full-time department and several collaborative department. Information and Health Medicine consists of four dedicated department (Epidemiology, Biostatistics, Medical Informatics and Medical Genetics) and two collaborative department (Disaster Public Health, from International Research Institute of Disaster Science (IRIDeS), and Personalized Prevention and Epidemiology). The Public Health Medicine Division consists of four dedicated department (Health Administration and Policy, Environmental Medicine and Molecular Toxicology, Forensic Medicine and Medical Ethics) and from 2017, the Department of International Cooperation for Disaster Medicine and Disaster Psychiatry were newly added from IRIDeS.

In this department, the seven courses described below are designed to develop human resources. Students will pursue advanced expertise in a wide range of fields by integrating lectures and exercises in fields related to public health and collaborating with other fields. We also provide practical education in the disaster areas, university hospitals, and Tohoku Medical Megabank Organization, and from 2017, we are mutually transmitting lectures to the Human Security International Education Course.

Upon completion of the master's program in public health, students receive the MPH (Master of Public Health) degree, which is required for active work in the field of health care administration and clinical research all over the world.

The department has its own website (<http://www.sph.med.tohoku.ac.jp/>), so please refer to it for details.

(1)General

Course Features

This course is the basis of this major. Applicants are assigned to one of the eight department in this major. And students take required subjects related to "public health," such as epidemiology, medical statistics, and medical ethics, and furthermore, they focus on curricula related to their field of study.

Contents of Education

Introduction to Epidemiology and Research Design, Medical Ethics 1, Social Medicine Seminar, Introduction to Medical Statistics, Introduction to Behavioral Medicine, Health Care Administration, and Environmental Medicine are required

subjects. Students will write a master's thesis as thesis research.

Career Plans after Graduation

Enter research and educational institutions (relating to the 13 fields of this major), pharmaceutical companies, think tanks, etc.

Medical Administration, International Health Organization

Enter the Graduate School of Medicine, Doctoral Program (Medical Course)

(2) Course to Train High-Level Clinical Research Administrators

Course Features

In Japan, recognition of necessity of infrastructure for medical research of clinical trial and transformer rational research has risen since the latter half of the 90's. But it has been insufficient yet and we have to promote talents who support these very fast. In this course, we promote specialists who support medical research, such as a clinical research coordinator (CRC), a data manager, a drugs' cosmetics and medical instrument specialist, an IT specialist, at the departments of Epidemiology, Biostatistics, and Medical Informatics while we cooperate with the Clinical Research, Innovation, and Education Center (CRIETO), TAMRIC, the Tohoku University Hospital.

You can take not only systematic lectures on medicine but a practice (training) for your specialties from the early stages of the course, so that you can take advantage of contents learnt in the lectures. We attempt to promote 'Advanced Medical Research Supporter' who make the best use of individual specialty and can well cooperate with other medical researchers.

Contents of Education

Introduction to Epidemiology and Research Design, Medical Ethics I, Introduction to Medical Statistics, Introduction to Behavioral Medicine, Health Care

Administration, and Environmental Medicine are required classes. In addition, in the required Clinical Research Practice I, students participate in planned or ongoing clinical research, and practice making plans and questionnaires, managing actual data, and analyzing data using statistical packages. In addition, students will take multiple elective classes.

Career Plans after Graduation

· Entrance into the Graduate School of Medicine, Department of Medical Sciences (Doctoral Program).

· Employment at medical treatment and pharmaceutical institutions, and food-related and medical equipment development companies, and public offices (especially medical-related), etc.

· By occupation, they are a medicine researcher, biostatistician, clinical research coordinator, people responsible for medical information, clinical psychologist, psycho oncology specialist, etc.

(3) One-Year Course to train Physicians and Dentists for Clinical Research

This course is designed mainly for Japanese students, and are taught only in Japanese.

(4) Course in Public Health and Genetic Counseling

Course Features

This course is for training students to become Certified Genetic Counselors (CGC, Academic Board Certification). It is designed to cultivate genetic counselors as high-level medical professionals that can work together with patients and families with an understanding of their position, and who have excellent communication skills and the latest knowledge on genomes to provide genetic counseling. Lectures are conducted in partnership with genetic medicine and various clinical departments, as well as hospitals and other research departments. Our program has been accredited for its professional development program by the Japanese Board of Genetic

Counseling (jointly established by the Japan Society of Human Genetics and the Japanese Society for Genetic Counseling). This course is designed mainly for Japanese students, and are taught only in Japanese.

Contents of Education
Genetic Counselors

Career Plans after Graduation
Genetic Counselors

(5) Leadership Training Course in Medical Ethics and Public Health

Course Features

The purpose of this course is to train leadership in medical ethics and public health and develop capable educator-researchers who can support diverse ethics-related activities in various areas including healthcare institutions and research facilities. This course is designed to educate undergraduate graduates who want to learn biomedical ethics and public health ethics in postgraduate level. The course is also offered to healthcare professionals and individuals who are expected to support ethics-related activities including ethics committee and ethics consultation in their own workplaces. Students belong to the Department of Medical Ethics and learn philosophical basis of biomedical ethics, its history, major problems in biomedical ethics, research ethics and public health ethics, as well as research methods in this field. They are also expected to join research ethics committees and ethics consultations as an observer. This course is designed mainly for Japanese students, and are taught only in Japanese.

Contents of Education

- Research Ethics and Ethics Committee: This course provides comprehensive educational program concerning research ethics with humans. Students observe research ethics reviews in Tohoku University Graduate School of Medicine and Tohoku University Hospital.
- Clinical Ethics and Case study : This course provides students with comprehensive educational regarding practical clinical ethics. Students also participate in clinical ethics consultation held in Tohoku University Hospital and other healthcare institutions
- Introduction to Ethics and Bioethics : This course examines major fundamental theories, principles, concepts, and controversies in ethics and bioethics. The course is intended to serve as a basis of all other courses.
- Descriptive Ethics and Empirical Study : This course is intended to serve as an opportunity to read various types of empirical research papers in the field of biomedical ethics in major international journals. The course focuses on detailed methodologies applied in these published studies.
- Public Health Ethics : This course examines major ethical issues in public ethics as well as national healthcare system
- Medical Humanities (Medical Ethics 2): This course presents students commercial films as case involving ethical dilemmas and the students discuss identified moral problems in a small group from the medical humanities' standpoint of view.
- Students will also learn the basics of medicine, life science, and public health through essential and elective courses.

Career Plans after Graduation

Entrance into the Graduate School of Medicine, Department of Medical Sciences (Doctoral Program).

Researchers of biomedical ethics at academic institutions
Ethics committee members in healthcare institutions
Biomedical ethics educators in healthcare institutions

(6) Disaster Medicine and Health Care Management Course

Course Features

This course is designed to provide the opportunity to learn about not only emergencies but also long-term medical and health care management during and after disasters, such as earthquakes, tsunamis, pandemics, and disasters involving chemical agents, biological agents, radiation/nuclear attacks, or explosives (CBRNE). This course is open mainly to nurses, pharmacists, medical administrative officers, and other medical professionals. Students in this course acquire knowledge of public health and disaster-related medical and scientific issues through the acquisition of a master degree of public health. This course is designed mainly for Japanese students and is taught only in Japanese.

Educational Content

Disaster medicine and health care seminar, disaster medicine and health care training, disaster sciences, public health

Career Plans after Graduation

An enhanced career in students' respective medical professions

Entrance into a doctoral program in medicine and medical sciences

(7) International Course of "Public Health Science for Human Security"

Course Features

After the cold war was ceased in the early 1990's, the concept of "Human Security" has become the primary common concern of international society. The new concept addresses the issues of security of "people", instead of "nations", such as illnesses, disasters, poverty, conflicts and so forth. Particularly in developing countries such as some nations in Asia, people's lives and dignity have been threatened by diseases and injuries which are basically not curable because of poverty, natural disasters, poor environmental hygiene, malnutrition and so on. In addition, epidemics and environmental pollution jeopardize human security by crossing border perspectives based on interdisciplinary views and scientific knowledge.

The International Course of "Public Health Science for Human Security" is designed to develop students' comprehension of the closely related factors which affect peoples' lives and also their ability to produce solutions, by integrating the latest knowledge of medical science and international health with the method of the humanities and social sciences. The course further aims to nurture researchers and public health leaders in international society who will contribute to the realization of human security by taking leadership in solving security problems in public health.

This course is based on the "International Post-Graduate in Human Security," and is conducted in collaboration with three other graduate schools (Agricultural Science, International Cultural Studies and Environmental Studies), from among which students may select elective courses. All elective and obligatory courses are lectured in English.

Contents of Education

Exercise on Human Security A,B, etc.

Career Plans after Graduation

Entrance into the Graduate School of Medicine, Department of Medical Sciences (Doctoral Program).

public offices (especially medical-related), etc

【List of Division and Department】

I Medical Sciences Master's Program

* When applying, contact the relevant supervisor 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.

* Co-Supervisors of the Collaborative chairs are subject to change without notice.

General : General Course

Molecular : Molecular Imaging

HS : International Course of "Public Health Science for Human Security"

Medical Physicists : Medical Physicists Training Course

Disaster medicine : Disaster medicine and health care course

BM : Basic Medicine Course

Division	Department	Supervisor [] : Co-supervisor	Acceptance					
			General	Molecular	HS	Medical Physicists	Disaster medicine	BM
Cell Biology	Radiation Biology	Prof. HOSOI, Yoshio	○		○			○
	Organ Anatomy	Prof. OWADA, Yuji	○					○
	Stem Cell Biology and Histology	Prof. DEZAWA, Mari	○					○
	Molecular Physiology and Metabolism	Prof. SAKAI, Juro,	○					○
	Biochemistry	Prof. IGARASHI, Kazuhiko	○					○
Physiological Sciences	Medical Biochemistry	Prof. YAMAMOTO, Masayuki	○					○
	Cell Physiology	Prof. MUSHIAKE, Haiime	※					
	Systems Neuroscience	Prof. MUSHIAKE, Haiime	○					○
	Molecular Pharmacology	Prof. YANAI, Kazuhiko	※					※
	Pharmacology	Prof. YANAI, Kazuhiko	○	○				○
Pathology	Investigative Pathology	Prof. FURUKAWA, Toru,	○					○
	Anatomic Pathology	Prof. SASANO, Hironobu	○					○
	Virology	Prof. OSHITANI, Hitoshi	○		○			○
	Microbiology and Immunology	Prof. ISHII, Naoto	○					○
	Laboratory Animal Medicine	Prof. MIYOSHI, Ichiro	○					○
	Antibody Drug Development	Prof. KATO, Yukinari,	○					○
Internal Medicine	Nephrology Endocrinology and Vascular Medicine	Prof. HARIGAE, Hideo	○					○
	Hematology and Rheumatology	Prof. HARIGAE, Hideo	○					○
	Diagnostic Radiology	Prof. TAKASE, Kei	○					○
	Radiation Oncology	Prof. JINGU, Keiichi	※			※		※
	Metabolism and Diabetes	Prof. KATAGIRI, Hideki	○					○
	Gastroenterology	Prof. MASAMUNE, Atsushi	○					○
	Cardiovascular Medicine	Prof. YASUDA, Satoshi	○					○
	Comprehensive Infection	Prof. KODAMA, Eiichi	○					○
	Respiratory Medicine	Prof. SUGIURA, Hisatoshi	○					○
	Clinical Oncology	Prof. ISHIOKA, Chikashi	○					○
Comprehensive Medicine	Prof. ISHII, Tadashi,	○				○	○	
Reproductive and Developmental Medicine	Pediatric Surgery	Prof. NIO, Masaki	○					○
	Gynecology	Prof. YAEGASHI, Nobuo	○					○
	Obstetrics and Reproductive Medicine	Prof. SAITO, Masatoshi	○					○
Surgery	Gastrointestinal Surgery	Prof. UNNO, Michiaki Prof. KAMEI, Takashi	○					○
	Breast and Endocrine Surgery	Prof. ISHIDA, Takanori,	○					○
	Orthopaedic Surgery	Prof. ITOI, Eiji	○					○
	Cardiovascular Surgery	Prof. SAIKI, Yoshikatsu	○					○
	Urology	Prof. ITO, Akihiro	○					○
	Anesthesiology and Perioperative Medicine	Prof. YAMAUCHI, Masanori	○					○
	Palliative Medicine	Prof. INOUE, Akira,	○					○
	Emergency and Critical Care Medicine	Prof. KUSHIMOTO, Shigeki	○					○
Plastic and Reconstructive Surgery	Prof. TACHI, Masahiro	○					○	

- * When applying, contact the relevant supervisor 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.
 * Co-Supervisors of the Collaborative chairs are subject to change without notice.

General: General Course
 Molecular: Molecular Imaging
 HS: International Course of "Public Health Science for Human Security"
 Medical Physicists: Medical Physicists Training Course
 Disaster medicine: Disaster medicine and health care course
 BM: Basic Medicine Course

Division	Department	Supervisor []: Co-supervisor	Acceptance						
			General	Molecular	HS	Medical Physicists	Disaster medicine	BM	
Neuroscience and Sensory Organs	Neurology	Prof. AOKI, Masashi	○					○	
	Neurosurgery	Prof. TOMINAGA, Teiji	○					○	
	Neuroendovascular Therapy	Prof. NIIZUMA, Kunivasu	○					○	
	Psychiatry	Prof. TOMITA, Hiroaki	○				○	○	
	Dermatology	Prof. AIBA, Setsuya	○					○	
	Ophthalmology	Prof. NAKAZAWA, Toru	○					○	
	Otolaryngology-Head and Neck Surgery	Prof. KATORI, Yukio	○					○	
Health Informatics and Public Health	Epidemiology	Prof. TSUJI, Ichiro	※					※	
	Biostatistics	Prof. YAMAGUCHI, Takuhiro	○						
	Medical Informatics	Prof. NAKAYAMA Masaharu	※						
	Medical Genetics	Prof. AOKI, Yoko	○						
Health Administration and Public Health	Health Administration and Policy	Prof. FUJIMORI, Kenji	○						
	Environmental Medicine and Molecular Toxicology	Prof. AKAIKE, Takaaki	○		○			○	
	Forensic Medicine	Prof. FUNAYAMA, Masato	○						
	Medical Ethics	Prof. ASAI, Atsushi	○					○	
United Centers for Advanced Research and Translational Medicine	Cell Proliferation	Prof. NAKAYAMA, Keiko	○					○	
	Developmental Neuroscience	Prof. OSUMI, Noriko	○					○	
	Molecular Medicine and Therapy	Prof. MIYATA, Toshio	○					○	
	Clinical Cell Therapy	Prof. ABE, Toshiaki	○					○	
	Transplantation and Regenerative Medicine	Prof. GOTO, Masafumi	○					○	
	Neurochemistry	Prof. DOH-URA, Katsumi	○					○	
	Neurological Science	Prof. KITAMOTO, Tetsuyuki	○					○	
	AI and Innovative Medicine	Prof. TAMIYA, Gen	○					○	
Environment and Genome Research Center	Informative Genetics	Prof. ARIMA, Tkahiro	○					○	
	Molecular Epidemiology	Prof. KURIYAMA, Shinichi	○					○	
	Development and Environmental Medicine	Prof. NAKAI, Kunihiko	※					※	
	Feto-Maternal Medical Science	Prof. SUGAWARA, Junichi	○					○	
Institute of Development, Aging and Cancer	Aging Science	Gene Expression Regulation	Prof. MOTOHASHI, Hozumi	○					○
		Experimental Immunology	Prof. TAKAI, Toshiyuki	○					○
		Immunobiology	Prof. OGASAWARA, Koetsu	○					○
		Molecular and Cellular Biology	Prof. HORIUCHI, Hisanori	○					○
		Modomics Biology and Medicine	Prof. Fan-Yan, Wei	○					○
	Cancer Science	Molecular Oncology	Prof. TANAKA, Kozo	○					○
		Cancer Biology	Prof. CHIBA, Natsuko	○					○
	Brain Sciences	Developmental Neurobiology	Prof. OGURA, Toshihiko	○					○
		Advanced Brain Science	Prof. KAWASHIMA, Ryuta	○					○
		Human brain science	Prof. SUGIURA, Motoaki	○					○
		Nuclear Medicine and Radiology	Prof. TAKI, Yasuyuki	○					○
		Geriatrics and Gerontology	Prof. ARAI, Hiroyuki	※					
		Cognitive Health Science	Prof. KAWASHIMA, Ryuta	○					○
	Cell Resource Center for Biomedical Research	Prof. MATSUI, Yasuhisa	○					○	
	Pre Clinical Research Center	Medical Engineering and Cardiology	Prof. YAMBE, Tomoyuki	○				○	

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General: General Course
 Molecular: Molecular Imaging
 HS: International Course of "Public Health Science for Human Security"
 Medical Physicists: Medical Physicists Training Course
 Disaster medicine: Disaster medicine and health care course
 BM: Basic Medicine Course

Division		Department	Supervisor []: Co-supervisor	Acceptance						
				General	Molecular	HS	Medical Physicists	Disaster medicine	BM	
Cyclotron and Radioisotope Center	Cyclotron Nuclear Medicine	Cyclotron Nuclear Medicine	Prof. TASHIRO, Manabu	○	○					○
Biomedical Engineering		Audiology	Prof. KAWASE, Tetsuaki	○						○
		Surgical and Molecular Pathophysiology	Prof. FUKUSHIMA, Kouhei	※						※
		Clinical Biology and Hormonal Regulation	Prof. ABE, Takaaki	○						○
International Research Institute of Disaster Science	Disaster Medical Science Division	Infectious Disease	Prof. KODAMA, Eiichi	○					○	○
		International Cooperation for Disaster Medicine	Prof. EGAWA, Shinichi	○		○			○	○
		Disaster Psychiatry	Prof. TOMITA, Hiroaki	○					○	○
		Disaster Obstetrics and Gynecology	Prof. ITO, Kiyoshi	○						○
		Disaster Public Health	Prof. KURIYAMA, Shinichi	○						○
		Disaster Medical Informatics	Prof. NAKAYAMA Masaharu	○						
Tohoku Medical Megabank Organization	Community Medical Supports	Image Statistics	Prof. MUGIKURA, Shunji	○						○
		Community Oral Health Science	Prof. TSUBOI, Akito	○						○
	Personalized Prevention and Epidemiology	Personalized Prevention and Epidemiology	Prof. HOZAWA, Atsushi	○						○
		Department of Biobank	Biobank Life Science	Prof. MINEGISHI, Naoko	○					
	Genetic Information Transfer		Prof. SUZUKI, Kichiya	○						○
	Department of Integrative Genomics	Biomarker Investigation	Prof. FUSE, Nobuo	○						
		Functional Genomics	Prof. KATSUOKA, Fumiki	○						○
		Statistical Genomics & Genetics	Prof. TAMIYA, Gen	○						○
	Department of Education and Training	Genetics and Disease Prevention	Prof. OHNEDA, Kinuko	○						○
	Advanced Research Center for Innovations in Next-Generation Medicine	Biomolecular Analysis	Prof. KOSHIBA, Seizo	○						
Informatics for Genomic Medicine		Prof. OGISHIMA, Soichi	○						○	
Collaborative Chairs		Clinical Pharmaceutical Science	Prof. MANO, Nariyasu	○						○
		Biomedical Imaging	Prof. SAIJO, Yoshifumi	○						○
		Occupational Health	Prof. KUROSAWA, Haiime	○						○
		Super-network Brain Physiology	Prof. MATSUI, Ko	※						※
		Laboratory of Systems Neuroscience	Prof. TSUTSUI, Kenichiro	○						○
Collaborative Chairs Molecular Neuroimaging	National Institutes for Quantum and Radiological Science and Technology (QST) 【Location: Chiba City, Chiba Prefecture】	Prof. HIGUCHI, Makoto [Prof. TASHIRO, Manabu]		※						
Collaborative Chairs Cancer Medical Science	Miyagi Cancer Center Research Institute 【Location: Natori City, Miyagi Prefecture】	Cancer Molecular Biology(Miyagi Cancer Center)	Prof. SHIMA, Hiroshi [Prof. IGARASHI, Kazuhiko]	○						○
			Prof. YASUDA, Jun [Prof. NAKAYAMA, Keiko]	○						○
		Tumor Immunobiology	Prof. TANAKA, Nobuyuki [Prof. IGARASHI, Kazuhiko]	○						○
		Cancer Stem Cell Research(Miyagi Cancer Center)	Prof. TAMAI, Keiichi [Prof. ISHII, Naoto]	○						○
		Cancer pathology	Prof. SATOH, Ikuro [Prof. SASANO, Hironobu]	○						○
		Cancer Epidemiology and Prevention	Prof. KANEMURA, Seiki [Prof. TSUJI, Ichiro]	○						○
		Oncovirology	Prof. YAMAGUCHI, Kazunori [Prof. HARIGAE, Hideo]	○						○

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Division	Department	Supervisor [] : Co-supervisor	Acceptance						
			General	Molecular	HS	Medical Physicists	Disaster medicine	BM	
Collaborative Chairs Advanced Fetal and Developmental Medicine	Miyagi Children's Hospital 【Location: Sendai City】	Obstetrics	Prof. MUROTSUKI, Jun [Prof. YAEGASHI, Nobuo]	○					○
		Pediatric Neurosurgery	Prof. SHIRANE, Reizo [Prof. TOMINAGA, Teiji]	○					○
		Pediatric Hematology and Oncology (Miyagi Children's Hospital)	Prof. IMAIZUMI, Masue [Prof. KURE, Shigeo]	○					○
		Pediatric Rehabilitation Medicine	Prof. HAGINOYA, Kazuhiro [Prof. KOHZUKI, Masahiro]	○					○
Collaborative Chairs Cancer Bioscience	The Cancer Institute of Japanese Foundation for Cancer Research 【Location: Koto-ku, Tokyo】	Cellular and Molecular Imaging of Cancer	Prof. HIROTA, Toru [Prof. IGARASHI, Kazuhiko]	○					○
		Screening for Molecular Target of Cancer	Prof. NODA, Tetsuo [Prof. IGARASHI, Kazuhiko]	○					○
Collaborative Chairs Community Psychiatry	Miyagi Psychiatric Center	Prof. KAKUTO, Yoshihisa [Prof. TOMITA, Hiroaki]	※						※
Collaborative Chairs Department of Innovative Cardiology	National Cerebral and Cardiovascular Center 【Location: Suita City, Osaka Prefecture】	Innovative Cardiovascular Surgery	Prof. KOBAYASHI, Junjiro [Prof. SAIKI, Yoshikatsu]	○					○
		Preventive Cardiology and Epidemiology	Prof. MIYAMOTO, Yoshihiro [Prof. NAKAYAMA Masaharu]	○					○
Collaborative Chairs Department of Clinical Respirology and Infectious Diseases	Kurihara Central Hospital 【Location: Kurihara City, Miyagi Prefecture】		Prof. HIRAKATA, Yoich [Prof. KODAMA, Eiichi]	○					○
			Prof. USAMI, Osamu [Prof. SUGIURA, Hisatoshi]	○					○
Collaborative Chairs Department of Advanced Cerebrovascular Surgery	Kohnan Hospital 【Location: Sendai City】	Prof. HUIJIMURA, Miki [Prof. TOMINAGA, Teiji]	○						○
Collaborative Chairs Department of Research and Development for the Advanced Community-based Medicine in the South Miyagi Medical Center	South Miyagi Medical Center 【Location: Ogawaramachi, Shibata-gun, Miyagi】		Prof. KIMURA, Yoshitaka [Prof. YAEGASHI, Nobuo]	○					○
			Prof. KURODA, Hiroshi [Prof. AOKI, Masashi]	○					○

II Disability Sciences Master's Programs

* When applying, contact the relevant supervisor 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.

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Division		Department	Supervisor [] : Co-supervisor	Acceptance
				General
Functional Medical Science		Medicine and Science in Sports and Exercise	Prof. NAGATOMI, Ryoichi	○
		Behavioral Medicine	Prof. FUKUDO, Shin	○
		Physical Medicine and Rehabilitation	Prof. IZUMI, Shin-ichi	○
		Epileptology	Prof. NAKASATO, Nobukazu	○
		Internal Medicine and Rehabilitation Science	Prof. KOHZUKI, Masahiro	※
		Behavioral Neurology and Cognitive Neuroscience	Prof. SUZUKI, Kyoko	○
		Maternal and Fetal Therapeutics	Prof. SAITO, Masatoshi	○
Medical Sciences	Surgery	Orthopaedic Surgery	Prof. ITOI, Eiji	○
		Urology	Prof. ITO, Akihiro	○
		Anesthesiology and Perioperative Medicine	Prof. YAMAUCHI, Masanori	○
	Neuroscience and Sensory Organs	Psychiatry	Prof. TOMITA, Hiroaki	○
		Ophthalmology	Prof. NAKAZAWA, Toru	○
		Otolaryngology-Head and Neck Surgery	Prof. KATORI, Yukio	○
Health Sciences	Basic and Health Development Nursing Science	Nursing Administration	Prof. ASAKURA, Kyoko	○
		Gerontological and Home Healthcare Nursing	Prof. OZAKI, Akiko	○
	Family Nursing	Palliative Nursing	Prof. MIYASHITA, Mitsunori	○
		Child Health Nursing	Prof. SHIWAKU, Hitoshi	○
		Psychiatric Nursing	Prof. YOSHII, Hatsumi	○
		Women's Health Nursing & Midwifery	Prof. YOSHIZAWA, Toyoko	○
	Clinical Medical Technology	Pathology and Histotechnology	Prof. SUZUKI, Takashi	○
Collaborative Chairs Advanced Fetal and Developmental Medicine	Miyagi Children's Hospital 【Location: Sendai city】	Pediatric Rehabilitation Medicine	Prof. HAGINOYA, Kazuhiro [Prof. KOHZUKI, Masahiro]	○
Collaborative Chairs Cognitive and Motor Dysfunction in Aging	Sendai Nishitaga Hospital 【Location: Sendai city】		Prof. TAKEDA, Atsushi [Prof. SUZUKI, Kyoko]	○

III School of Public Health Master's Program

* When applying, contact the relevant supervisor 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.

General: General Course

Clinical Research : Course to Train High-Level Clinical Research Administrators

1year: One-Year Course to train Physicians and Dentists for Clinical Research

Genetic Counseling: Course in Public Health and Genetic Counseling

Medical Ethics : Leadership Training Course in Medical Ethics and Public Health

Disaster medicine : Disaster medicine and health care management course

HS: International Course of "Public Health Science for Human Security"

Division		Department	Supervisor	General	Clinical Research	1year	Genetic Counseling	Medical Ethics	Disaster medicine	HS
Health Informatics and Public Health		Epidemiology	Prof. TSUJI, Ichiro	○		○			○	
		Biostatistics	Prof. YAMAGUCHI, Takuhiro	○	○	○				
		Medical Informatics	Prof. NAKAYAMA Masaharu	○						
		Medical Genetics	Prof. AOKI, Yoko	○			○			
Health Administration and Public Health		Health Administration and Policy	Prof. FUJIMORI, Kenji	○						
		Environmental Medicine and Molecular Toxicology	Prof. AKAIKE, Takaaki	○						○
		Forensic Medicine	Prof. FUNAYAMA, Masato	○						
		Medical Ethics	Prof. ASAI, Atsushi	○				○		
International Research Institute of Disaster Science	Disaster Medical Science Division	Disaster Public Health	Prof. KURIYAMA, Shinichi	○						
		International Cooperation for Disaster Medicine	Prof. EGAWA, Shinichi	○					○	○
		Disaster Psychiatry	Prof. TOMITA, Hiroaki	○					○	
Tohoku Medical Megabank Organization	Personalized Prevention and Epidemiology	Personalized Prevention and Epidemiology	Prof. HOZAWA, Atsushi	○						
Collaborative Chairs	International Medicine	Comprehensive Medicine	Prof. ISHII, Tadashi					○		

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 Antibody Drug Development	Prof. KATO, Yukinari
Department of Ophthalmic Drug Discovery	Prof. NAKAZAWA, Toru
Department of Advanced MRI Collaborative Research	Prof. TAKASE, Kei
Meternal and child health care medical science (Cooperation Course)	Prof. YAEGASHI, Nobuo Prof. SAITO, Masatoshi
Department of Kampo and Integrative Medicine	Prof. ISHII, Tadashi Prof. TAKAYAMA, Shin
Department of Electromagnetic Neurophysiology (RICOH)	Prof. NAKASATO, Nobukazu
Innovative Cardiovascular Medicine	Prof. SAIKI, Yoshikatsu
Evidence-based Cardiovascular Medicine	Prof. NAKAYAMA, Masaharu
Advanced Ophthalmic Medicine	Prof. NAKAZAWA, Toru
Research Division of Sciences for Aortic Disease	Prof. SAIKI, Yoshikatsu
Reconstruction in Sports activity and motor function	Prof. NAGATOMI, Ryoichi
Retinal Disease Control, Ophthalmology	Prof. NAKAZAWA, Toru
Clinical Hypertension, Endocrinology and Metabolism	Prof. SATO, Fumitoshi
Ophthalmic Imaging and Information Analytics	Prof. NAKAZAWA, Toru
General Practitioner Development	Prof. ISHII, Tadashi
Institute of Development, Aging and Cancer: Division of Geriatric Pharmacotherapy	Prof. KAWASHIMA, Ryuta