

**Graduate School of Medicine and
Pharmaceutical Sciences for Education**

Ph.D. Program in the Department of Pharmacy

Admission Guidelines

(Second Recruitment)

For Admission in April 2018

General Admission

Special Admission for Working Students

Special Admission for International Students

November 2017

University of Toyama

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Although recruitment of students for the PhD program (for entrance in April 2018) in the Department of Pharmaceutical Sciences of the Graduate School of Medicine and Pharmaceutical Sciences for Education of this university is implemented twice, the second recruitment of students will be implemented based on these guidelines.

The first recruitment of students was implemented at the August 2017.

Admission Policy

Department of Pharmacy

The Ph.D. Program in the Department of Pharmacy focuses on education and research that nurtures students' ability to conduct independent research in the area of clinical pharmacy. The program also fosters other abilities needed to perform highly specialized tasks. The department aims to educate pharmacists, researchers, and pharmaceutical educators who can keep up with developments in basic and clinical pharmacy and who can succeed in various fields developing in line with advances in drug therapy. The program welcomes applicants who aspire to succeed in various fields related to pharmacy, whether at a basic or clinical level.

General Admission

1. Capacity

Department	Number of Students Accepted	Remarks
Pharmacy	A few	Includes the number of students recruited for working students and international students.

Note: Applicants should consult with the academic advisor for their desired area of study prior to submitting their application.

2. Eligibility

The following persons are eligible to apply:

- (1) Persons who have graduated from a six-year pharmaceutical, medical, dental, or veterinary medicine college, or persons scheduled to graduate in March 2018
- (2) Persons with a bachelor of pharmacy, medicine, dentistry, or veterinary medicine conferred by the National Institution for Academic Degrees and Quality Enhancement of Higher Education under Article 104, Paragraph 4 of the School Education Act, or who are scheduled to fulfill said requirement by March 2018
- (3) Persons who have completed 18 years of formal education abroad culminating in graduation from a medical, dental, or six-year pharmaceutical, veterinary medicine college, or who are scheduled to fulfill said requirement by March 2018
- (4) Persons who have completed 18 years of formal education provided by an educational institution in a foreign country, including periods of correspondence or distance study while residing in Japan, culminating in the completion of a medical, dental, or six-year pharmaceutical, veterinary medicine college, or who are scheduled to fulfill said requirement by March 2018
- (5) Persons who have completed the course of an educational institution located in Japan that offers courses for a foreign university as part of the school education system of that country (limited to those who have completed 18 years of school education in that country and who have a medical, dental, or six-year pharmaceutical, veterinary medicine college), and is designated as such by the Minister of Education, Culture, Sports, Science and Technology of Japan, or persons scheduled to fulfill said requirement by March 2018
- (6) Persons who have completed an educational program (limited to Medicine, Dentistry, Pharmaceutical Sciences and Veterinary Medicine) of five years or more at a university or an educational institution in a foreign country (which has been evaluated for its educational and research activities by an institute certified by the government or its related organization, or an equivalent thereof designated by the Minister of Education, Culture, Sports, Science and Technology, Japan) (including individuals who have completed a correspondence course offered by the foreign educational institution while residing in Japan, and individuals who have completed an educational program at an educational institution authorized by the School

Education System and designated as such by the Minister of Education, Culture, Sports, Science and Technology, Japan) and have been conferred a degree which is equivalent to a Bachelor's degree, or will be conferred said degree by March 2018

- (7) Persons designated by the Minister of Education, Culture, Sports, Science and Technology of Japan (1955 Ministry of Education Notification No.39)
- (8) Persons who have been enrolled in the Doctoral Course of another Graduate School (limited to a course of four years) in accordance with the provisions of School Education Law Article 102, Paragraph 2 and have been deemed by the Graduate School to have the academic ability required to study at the Graduate School.
- (9) Persons who are 24 years of age or older at the time of entrance, and after having undergone the preliminary qualification screening and have been determined to have a level of academic ability equal to or higher than that of a graduate of a six-year pharmaceutical, medical, dentistry, or veterinary medicine college by the University of Toyama Graduate School of Medicine and Pharmaceutical Sciences for Education
- (10) Applicants who have been enrolled in a six-year pharmaceutical, medical, dentistry, or veterinary medicine college for four years or longer, including persons determined to be eligible by the Minister of Education, Culture, Sports, Science and Technology of Japan and regarded by the University of Toyama Graduate School of Medicine and Pharmaceutical Sciences for Education as having acquired the necessary credits with outstanding results during their period of enrollment by the Graduate School of Medicine and Pharmaceutical Sciences for Education, University of Toyama

Note:

- It is desirable for applicants who fall into category (1) to have acquired a license to practice pharmacy, medicine or dentistry.
- Applicants described in category (7) as designated by the Minister of Education, Culture, Sports, Science and Technology of Japan include persons recognized by their graduate school as having completed a master's program. For more details, contact the Educational Affairs Division of Medicine and Pharmaceutical Sciences Majors (in charge of admission), University of Toyama.
- Applicants described in category (10) as determined to be eligible by the Ministry of Education, Culture, Sports, Science and Technology of Japan include persons who have completed an equivalent course abroad. For more details, contact the Educational Affairs Division of Medicine and Pharmaceutical Sciences Majors (in charge of admission), University of Toyama.
- Applicants who fall into categories (7)~(10) are required to undergo preliminary qualification screening in advance. Please refer to Information for All Applicants, 1 Application Procedures, (4) Application for Approval of Eligibility.

3. Selection Method

Applicants are selected on the basis of the results of a written examination and an oral examination, as well as an evaluation of academic transcripts.

(1) Written Examination

- Specialized subjects: Applicants select one subject from among Pharmacology, Biochemistry, Organic Chemistry, Physical Chemistry, Pharmaceutics, Pharmacognosy, and Clinical Pharmacy.
- Foreign language: English (Specialized)

(2) Oral Examination

An oral examination on the graduation thesis, related research papers, and other specialized subjects is conducted.

(3) Examination Schedule and Venue

Date	Time	Subject	Venue
Feb. 9 (Friday), 2018	9:30 ~ 11:30	Specialized subjects	University of Toyama Sugitani Campus (Medicine and Pharmaceutical Sciences), 2630 Sugitani, Toyama City, Toyama
	13:00 ~ 14:00	Foreign language (English (Specialized))	
	15:00 ~ (planned)	Oral examination	

Note: The starting time for the oral examination is subject to change, depending on the number of applicants. Should the starting time change, applicants will be notified when examination admission cards are sent.

Special Admission for Working Students

1. Capacity

Department	Number of Students Accepted	Remarks
Pharmacy	A few	

Notes:

- Applicants should consult with an academic advisor for their desired area of study prior to submitting their application.
- Working students are given special consideration, including scheduling of classes and research guidance in the evenings or at other specific times to avoid conflicts with work schedules, if considered necessary from an educational standpoint. This special consideration is given in accordance with “special cases with regard to the method of education stipulated in Article 14 of the Requirements for Establishing Graduate Schools”.

2. Eligibility

Persons who work in a variety of research institutions, educational institutions, or in companies as professionals such as researchers, or who will work for such institutions or companies beginning in April 2018, and to whom any of the following items applies are eligible to apply for admission.

- (1) Persons who have graduated from a six-year pharmaceutical, medical, dental, or veterinary medicine college and students scheduled to graduate in March 2018
- (2) Persons with a bachelor of pharmacy, medicine, dentistry, or veterinary medicine conferred by the National Institution for Academic Degrees and Quality Enhancement of Higher Education under Article 104, Paragraph 4 of the School Education Act, or who are scheduled to fulfill said requirement by March 2018
- (3) Persons who have completed 18 years of formal education abroad culminating in graduation from a medical, dental, or six-year pharmaceutical, veterinary medicine college, or who are scheduled to fulfill said requirement by March 2018
- (4) Persons who have completed 18 years of formal education provided by an educational institution in a foreign country, including periods of correspondence or distance study while residing in Japan, culminating in the completion of a medical, dental, or six-year pharmaceutical, veterinary medicine college, or who are scheduled to fulfill said requirement by March 2018
- (5) Persons who have completed the course of an educational institution located in Japan that offers courses for a foreign university as part of the school education system of that country (limited to those who have completed 18 years of school education in that country and who have a medical, dental, or six-year pharmaceutical, veterinary medicine college), and is designated as such by the Minister of Education, Culture, Sports, Science and Technology of Japan, or persons scheduled to fulfill said requirement by March 2018
- (6) Persons who have completed an educational program (limited to Medicine, Dentistry, Pharmaceutical Sciences and Veterinary Medicine) of five years or more at a university or an educational institution in a foreign country (which has been evaluated for its educational and research activities by an institute certified by the government or its related organization, or an equivalent thereof designated by the Minister of Education, Culture, Sports, Science and Technology, Japan) (including individuals who have completed a correspondence course offered by the foreign educational institution while residing in Japan, and individuals who have completed an educational program at an educational institution authorized by the School Education System and designated as such by the Minister of Education, Culture, Sports, Science and Technology, Japan) and have been conferred a degree which is equivalent to a Bachelor’s degree, or will be conferred said degree by March 2018
- (7) Persons designated by the Minister of Education, Culture, Sports, Science and Technology of Japan. (1955 Ministry of Education Notification No.39)
- (8) Persons who have been enrolled in the Doctoral Course of another Graduate School

- (limited to a course of four years) in accordance with the provisions of School Education Law Article 102, Paragraph 2 and have been deemed by the Graduate School to have the academic ability required to study at the Graduate School.
- (9) Persons who are 24 years of age or older at the time of entrance, and after having undergone the preliminar qualification screening and have been determined to have a level of academic ability equal to or higher than that of a graduate of a six-year pharmaceutical, medical, dentistry, or veterinary medicine college by the University of Toyama Graduate School of Medicine and Pharmaceutical Sciences for Education
- (10) Applicants who have been enrolled in a six-year pharmaceutical, medical, dentistry, or veterinary medicine college for four years or longer, including persons determined to be eligible by the Ministry of Education, Culture, Sports, Science and Technology of Japan and regarded by the University of Toyama Graduate School of Medicine and Pharmaceutical Sciences for Education as having acquired the necessary credits with outstanding results during their period of enrollment by the Graduate School of Medicine and Pharmaceutical Sciences for Education, University of Toyama

Note:

- It is desirable for applicants who fall into category (1) to have acquired a license to practice pharmacy, medicine or dentistry.
- Applicants described in category (7) as designated by the Minister of Education, Culture, Sports, Science and Technology of Japan include persons recognized by their graduate school as having completed a master's program. For more details, contact the Educational Affairs Division of Medicine and Pharmaceutical Sciences Majors (in charge of admission), University of Toyama.
- Applicants described in category (10) as determined to be eligible by the Ministry of Education, Culture, Sports, Science and Technology of Japan include persons who have completed an equivalent course abroad. For more details, contact the Educational Affairs Division of Medicine and Pharmaceutical Sciences Majors (in charge of admission), University of Toyama.
- Applicants who fall into categories (7)~(10) are required to undergo preliminary qualification screening in advance. Please refer to Information for All Applicants, 1 Application Procedures, (4) Application for Approval of Eligibility.

3. Selection Method

Applicants are selected on the basis of the results of a written examination and an oral examination, as well as an evaluation of academic transcripts.

(1) Written Examination

- Specialized subjects: Applicants select one subject from among Pharmacology, Biochemistry, Organic Chemistry, Physical Chemistry, Pharmaceutics, Pharmacognosy, and Clinical Pharmacy.
- Foreign language: English (Specialized)

(2) Oral Examination

An oral examination on the graduation thesis, related research papers, and work experience is conducted.

(3) Examination Schedule and Venue

Date	Time	Subject	Venue
Feb. 9 (Friday), 2018	9:30 ~ 11:30	Specialized subjects	University of Toyama Sugitani Campus (Medicine and Pharmaceutical Sciences), 2630 Sugitani, Toyama City, Toyama
	13:00 ~ 14:00	Foreign language (English (Specialized))	
	15:00 ~ (planned)	Oral examination	

Note: The starting time for the oral examination is subject to change, depending on the number of applicants. Should the starting time change, applicants will be notified when examination admission cards are sent.

Special Admission for International Students

1. Capacity

Department	Number of Students Accepted	Remarks
Pharmacy	A few	

Note: Applicants should consult with the academic advisor for their desired area of study prior to submitting their application.

2. Eligibility

Persons of foreign nationality to whom any of the following items applies are eligible to apply for admission.

- (1) Persons who have completed 18 years of formal education abroad culminating in graduation from a medical, dental, or six-year pharmaceutical, veterinary medicine college, or who are scheduled to fulfill said requirement by March 2018.
- (2) Persons who have completed an educational program (limited to Medicine, Dentistry, Pharmaceutical Sciences and Veterinary Medicine) of five years or more at a university or an educational institution in a foreign country (which has been evaluated for its educational and research activities by an institute certified by the government or its related organization, or an equivalent thereof designated by the Minister of Education, Culture, Sports, Science and Technology, Japan) (including individuals who have completed a correspondence course offered by the foreign educational institution while residing in Japan, and individuals who have completed an educational program at an educational institution authorized by the School Education System and designated as such by the Minister of Education, Culture, Sports, Science and Technology, Japan) and have been conferred a degree which is equivalent to a Bachelor's degree, or will be conferred said degree by March 2018.
- (3) Persons who are 24 years of age or older at the time of entrance, and after having undergone the preliminary qualification screening and have been determined to have a level of academic ability equal to or higher than that of a graduate of a six-year pharmaceutical, medical, dentistry, or veterinary medicine college by the University of Toyama Graduate School of Medicine and Pharmaceutical Sciences for Education.
- (4) Persons who have been enrolled in the Doctoral Course of another Graduate School (limited to a course of four years) in accordance with the provisions of School Education Law Article 102, Paragraph 2 and have been deemed by the Graduate School to have the academic ability required to study at the Graduate School.

Note: Applicants to whom (3)(4) above applies are required to undergo a preliminary qualification screening in advance. Please refer to (4) Application for Approval of Eligibility in "Information for All Applicants"

3. Selection Method

Applicants are selected on the basis of the results of a written examination and oral examination, as well as evaluation of academic transcripts.

- (1) Written Examination
 - Specialized subject: Applicants select one subject from among Pharmacology, Biochemistry, Organic Chemistry, Physical Chemistry, Pharmaceutics, Pharmacognosy, and Clinical Pharmacy.
 - Foreign language: English (Specialized)
- (2) Oral Examination

An oral examination on the graduation thesis, related research papers, and other specialized subjects is conducted.

(3) Examination Schedule and Venue

Date	Time	Subject	Venue
Feb. 9 (Friday), 2018	9:30 ~ 11:30	Specialized subjects	University of Toyama Sugitani Campus (Medicine and Pharmaceutical Sciences), 2630 Sugitani, Toyama City, Toyama
	13:00 ~ 14:00	Foreign language (English (Specialized))	
	15:00 ~ (planned)	Oral examination	

Note: The starting time for the oral examination is subject to change, depending on the number of applicants. Should the starting time change, applicants will be notified when examination admission cards are sent.

Information for All Applicants

1. Application Procedure

(1) Method of Application

After paying the examination fee by bank remittance, write the applicable item from 2) below on an envelope in red ink and post the application documents by registered express mail.

1) Application Period

From December 11(Monday), 2017 to January 5(Friday), 2018 (as indicated by postmark)

Mailing address: Educational Affairs Division of Medicine and Pharmaceutical Sciences Majors (in charge of admission), University of Toyama, 2630 Sugitani, Toyama 930-0194

For information on the Method of Examination Fee Payment, refer to (3) Method of Examination Fee Payment.

Students currently enrolled in University of Toyama graduate schools who seek to enroll in the Graduate School of Medicine and Pharmaceutical Sciences for Education (Ph.D. Program) are not required to pay the examination fee.

2) Items to Be Written on the Envelope

- **General Admission**

Contains an application for the Graduate School of Medicine and Pharmaceutical Sciences for Education (Ph.D. Program General Admission)

- **Special Admission for Working Students**

Contains an application for the Graduate School of Medicine and Pharmaceutical Sciences for Education (Ph.D. Program Special Admission for Working Students)

- **Special Admission for International Students**

Contains an application for the Graduate School of Medicine and Pharmaceutical Sciences for Education (Ph.D. Program Special Admission for International Students)

(2) Application Documents

Documents		Applicable Documents
1)	Application for Admission	Prepared using the University's prescribed form
2)	Certificate of (Expected) Bachelor's Degree	The certificate must be signed by the Faculty Dean of the issuing university. (Not required for graduates from the Faculty of Pharmacy and Pharmaceutical Sciences of the University of Toyama)
3)	Academic transcript from the undergraduate faculty of the university from which the applicant has graduated	Prepared and sealed by the Faculty Dean of the university (undergraduate faculty)
4)	Graduation thesis or equivalent	One copy (Persons applying for eligibility approval and applicants taking the special admission for working students may submit their Research Paper List (Including Academic Conference Presentations) on the prescribed form of the University of Toyama, in lieu of a graduation thesis.)
5)	Summary of the above thesis	Two copies Prepare a summary of a maximum length of one page of A-4 size paper that includes the thesis title and the author's name. (When attaching figures, use a separate page). Use body text 11 points or larger in size and top, bottom, left, and right margins of at least 20 mm. (Persons applying for eligibility approval and applicants taking the special admission for working students may submit a summary of research and/or work details of a maximum length of 800 words on A-4

		size papers in lieu of a thesis summary.)
6)	Examination Admission Card / Photo Identification Card	Prepared using the University's prescribed form. Attach a photograph (upper body photo of the applicant alone taken full face with no head covering within three months of the application (4 cm in length x 3 cm in width)).
7)	Certificate of Examination Fee Transfer	After paying the examination fee at a financial institution using the University's prescribed Examination Fee Remittance Request Form, attach the slip of the Certificate of Transferred Amount (Examination fee) issued by the financial institution to the Certificate of Examination Fee Transfer (University's prescribed form), and submit it along with other documents. Persons currently enrolled in a master's program at the University of Toyama who seek to enroll in the Graduate School of Medicine and Pharmaceutical Sciences for Education (Ph.D. Program) are not required to pay the examination fee.
8)	Letter of Approval for Entrance Examination	Applicants who are enrolled in a graduate school elsewhere than at the University of Toyama or who are employed at a public office or private company are required to submit an approval for examination signed by the dean of their graduate school or their immediate supervisor at work. (No specific format required)
9)	Copy of the Certificate of Residence	Foreign nationals currently residing in Japan should attach a Copy of the Certificate of Residence issued by the city, town, village or special ward in which they reside.
10)	Stamped, self-addressed envelope	Used to post the Examination Admission Card. Please write your name, address, and postal code on a No. 3 long envelope (23.5 cm x 12 cm) and attach postage stamps to the amount of ¥362 yen (special delivery).
11)	Mailing label (used to post the notice of examination results)	Prepared using the University's prescribed form. Write your name, address, and postal code.

(3) Method of Examination Fee Payment

Applicants should pay the ¥30,000 examination fee by the prescribed method not later than 3:00 pm, January 5 (Friday), 2018.

(However, persons falling into any of the following categories are not required to pay the examination fee.)

Use the University's prescribed form to remit the examination fee at the service counter of a nearby bank, Shinkin Bank, agricultural cooperative, or other financial institution that handles wire transfers.

Payment cannot be made at an automatic teller machine (ATM) or Japan Post Bank. Examination fees cannot be refunded for any reason except in the following cases:

- 1) The applicant does not apply to the University of Toyama after remitting the examination fee (The applicant does not submit the application documents, or the application documents are not received.)
- 2) Double payment
- 3) Payment exceeding the required amount

Note: When applying to the University of Toyama for an examination fee refund, affix the slip of the Certificate of Transferred Amount (Examination fee) to the designated Examination Fee Refund Request Form, and mail it to the University of Toyama.

Mailing address: Accounting Group, Financial Affairs Division, University of Toyama, 3190 Gofuku, Toyama 930-8555

Telephone: (076) 445-6053 From abroad: +81-76-445-6053

(4) Application for Approval of Eligibility

Individual eligibility screening is conducted for persons who seek to apply based on

eligibility qualifications (7)~(10)qualification (3),(4) in the case of the special admission for international students). Applicants should submit the following documents to the Educational Affairs Division of Medicine and Pharmaceutical Sciences Majors (in charge of admission), University of Toyama by December 1 (Friday), 2017.

- Eligibility Approval Screening Form (University of Toyama prescribed form)
- Academic transcript (all academic results obtained in a university faculty)
- Certificate of Bachelor's degree or certificate of Master's degree
- Summary of research and work details
- Research Paper List (Including Academic Conference Presentations)
(University of Toyama prescribed form)

Applicants will be notified of the results of eligibility screening by December 8(Friday), 2017.

(5) Advance Consultation for Applicants with a Disability

Since applicants with a disability may require special consideration when taking the entrance examination or attending school, they are requested to consult with the Educational Affairs Group of Medicine and Pharmaceutical Sciences Majors (in charge of admission), University of Toyama in advance.

At the time of consultation, applicants may be requested to submit a document containing the following matters and a doctor's certificate.

- Type and degree of disability
- Matters requiring special consideration at the time of the entrance examination
- Matters requiring special consideration at the time of school attendance
- Circumstances of daily life and other matters for reference

1) Consultation deadline: December 1 (Friday), 2017

2) Contact information: Educational Affairs Division of Medicine and Pharmaceutical Sciences Majors (in charge of admission), University of Toyama, 2630 Sugitani, Toyama 930-0194

Telephone: (076) 434-7658 From abroad: +81-76-434-7658

2. Notification of Acceptance

The examination numbers of successful applicants will be posted at the front entrance of the University of Toyama Sugitani Campus Faculty of Pharmacy and Pharmaceutical Sciences Bldg. at 3:00 pm on February 23 (Friday), 2018, and the successful applicants will be notified. Telephone and facsimile inquiries will not be accepted.

3. Admission Procedure

The enrollment procedure is as follows. Successful applicants will be given more details.

(1) Enrollment Date

For Admission in April 2018: March 22 (Thursday), 2018 (planned)

(2) Place: University of Toyama Sugitani Campus

(3) Documents Required for Admission

Notice of Acceptance, color photograph (4 cm in length x 3 cm in width), written pledge of school enrollment (University of Toyama prescribed form)

(4) Expenses Required for Admission

a) Admission fee: ¥282,000 (provisional amount)

Notes: 1) The above admission fee is a provisional amount. Should the admission fee be revised, the new admission fee will become effective at the time of the revision.

2) Once paid, admission fees cannot be refunded for any reason.

b) Other matters

1) In cases where payment of the admission fee is judged to be difficult, after screening an exemption may be granted, or collection may be postponed.

2) Tuition is paid after admission. Information on the tuition amount and payment method is provided at the time of enrollment.

Reference information: Tuition for the 2017-2018 academic year is ¥535,800.

3) Scholarships are available through the Admission Office.

4) Students are required to pay the cost of Personal Accident Insurance for Students Pursuing Education and Research and other items separately.

(5) Cautionary Statement

Persons who fail to complete the admission procedure on the enrollment date will be

considered to have declined admission.

4. Privacy Policy

Personal information held by the University is handled in accordance with the Act on the Protection of Personal Information Held by Administrative Organs and the University of Toyama Policies on Personal Information Protection

- (1) Names, addresses, and other personal information that the University of Toyama obtains from applicants will be used for 1) the selection of students (processing of applications and the selection process), 2) announcement of successful applicants, 3) enrollment procedures, 4) investigation and research for the selection process, and 5) other related activities.
- (2) Personal information obtained from persons who have completed the admission procedures will be used for preparatory education before admission and for 1) instruction and administration (the school register, student guidance, etc.), 2) student assistance (health management, application for tuition exemptions and scholarships, employment assistance, etc.), and 3) the collection of tuition after admission.
- (3) The names and addresses of successful applicants may be used to facilitate contact by organizations related to after-school activities, the alumni association, the support association, and the student cooperative association of the University of Toyama.
Note: Successful applicants who do not wish to be contacted by the abovementioned organizations should notify the Educational Affairs Division of Medicine and Pharmaceutical Sciences Majors (in charge of admission), University of Toyama to that effect.
- (4) The University of Toyama may partially outsource operations to commissioned companies (hereinafter referred to as “Contractors”). We may provide said Contractors with all or part of the personal information obtained through the application process as required for the execution of contracted business.

5. Cautions

- (1) If there is any defect in the application documents, the application may not be accepted.
- (2) Once accepted, the application documents and related materials shall not be returned for any reason.
- (3) If any of the information provided in the submitted documents is found to be false even after acceptance for admission, the admission of a successful applicant may be cancelled.
- (4) Please forward any inquiry about application or other matters to the following address:
Educational Affairs Division of Medicine and Pharmaceutical Sciences Majors
(in charge of admission), University of Toyama, 2630 Sugitani, Toyama
930-0194
Telephone: (076) 434-7658 From abroad: +81-76-434-7658

Overview of the Ph.D. Program in the Department of Pharmacy

1. Purpose

This Ph.D. program offers education and research pertaining to the latest pharmaceutical science, with a focus on clinical pharmacy and natural medicine. It produces graduates who will become leaders in clinical research and highly skilled professionals who can conduct high-level prescription work from the viewpoint of team medicine.

2. Standard Term of Study and Required Credits

(1) Term

The term for the Ph.D. Program in the Department of Pharmacy is four years as a standard.

(2) Credit standard

The requirements for the doctoral program in the major of pharmacy are enrollment in the University of Toyama Graduate School for a period of four or more years, receiving research guidance from academic advisors, obtaining 30 or more credits in total (eight or more credits for lectures on the subjects in the major field, six or more credits for practice on pharmacy and 16 or more credits for special research on pharmacy under the supervision of academic advisors), and successful completion of a screening of a doctoral dissertation and final examination after having obtained the necessary research guidance. However, a doctorate may be conferred on a student who has been enrolled in the Graduate School for a period of three years or longer, and has achieved excellent research results.

In the high-level professional course based on natural medicine, students must acquire internship, practice in developing drug formulation or practice in drug efficacy and pharmacokinetics in addition to the above credits.

3. List of Subjects

See Appendix I.

4. List of Academic Advisors and Their Research themes

See Appendix II.

5. Customized Schedule

An eligible student may receive a customized schedule following submission of a study plan and consultation with the academic advisor. A customized schedule allows a student to take classes and receive research guidance in the evening from 6:05 to 9:10 pm from Monday through Friday in addition to the time allotted during the day. Depending on the subject, a student may be able to take classes at other times as well, such as on Saturdays or during the summer vacation.

Period I	8:45 am to 10:15 am	Period II	10:30 am to 12:00 pm	Period III	1:00 pm to 2:30 pm
Period IV	2:45 pm to 4:15 pm	Period V	4:30 pm to 6:00 pm		
Period VI	6:05 pm to 7:35 pm	Period VII	7:40 pm to 9:10 pm		

6. Conferral of Degree

The degree offered is a Doctor of Philosophy in Pharmacy.

7. Course for Developing Highly Skilled Professionals

The Graduate School of Medicine and Pharmaceutical Sciences for Education offers the program for developing highly skilled professionals based on natural medicine and pharmaceutical sciences (PDNP). The Graduate School accepts students from Japan, China, Korea, ASEAN, and other countries and cultivates human resources who will contribute to the field of pharmacological therapy through team medicine in medical practice, as well as excellent human resources involved in pharmaceutical research, and in the development and quality control of medicines in pharmaceutical companies. The Graduate School also contributes to the development of the field of Pharmaceutical Sciences based on the historical traditions of the Toyama area, use of the seeds accumulated at the University of Toyama through research and education, and cooperation among universities in Asia through this project. The pharmaceutical sciences course offers a program to develop professional experts in natural medicine through long-term internships at pharmaceutical companies with in-depth knowledge of natural medicine. There, students gain comprehensive experience that includes research, development and quality control of medicines. In the high-level professional course based on natural medicine, students are not only obtaining 20 or more credits in total, but also acquire four credits for internship and one credit for practice in Pharmaceutical Formulation Development or practice in Pharmacokinetics.

Appendix I

List of Subjects

Subject Name	Year	Credits			Remarks
		Required Subject	Elective Subject	Elective subject outside the major	
Molecular Biopharmaceutical Sciences	1・2		2		
Molecular Medical Science	1・2		2		
Advanced Lecture in Clinical Oriental and Western Medicine	1・2		2		
Clinical Pharmacy	2・3		2		
Pharmaceutical Formulation Development	2・3		1		
Practice in Pharmacokinetics	2・3		1		
International Pharmaceutical Sciences	1・2		2		
Internships	2・3		4		
Exercise in Pharmacy	1~4	6			
Special Practice in Pharmacy	1~4	16			
Research Ethics and Methods	1~4			1	e-Learning
Japanese Language・Culture for Foreign Student	1・2			4	
Total		22	16	5	

Appendix II

List of Academic Advisors and Their Research Themes

Education Field	Academic Advisor	Research Themes
Medical Pharmaceutics	Professor Hideto To	<ul style="list-style-type: none"> • Translational research for clinical application of chronotherapy • Application of chronotherapy for individualized medicine • Development of new drugs targeting factors regulating the circadian rhythm of morbid states
Clinical Pharmacology	Professor Toshiyasu Sasaoka	<ul style="list-style-type: none"> • Development of new insulin sensitizers based on the mechanisms of type 2 diabetes and insulin resistance • Elucidation of central mechanisms regulating energy and glucose homeostasis via intra-organ metabolic pathway • Development of a novel treatment of diabetic complications based on the pathogenic mechanisms
Clinical Pharmacokinetics	Professor Yukiya Hashimoto	<ul style="list-style-type: none"> • Basic and clinical research on pharmacokinetics and drug efficacy/toxicity: especially, analysis of effects of disease states, concurrently-administered drugs, and genetic polymorphisms on the function of the drug-metabolizing enzyme and transporter; furthermore, development of individualized dosage regimens based on the influencing factors identified
Pharmaceutical Therapy and Neuropharmacology	Professor Atsumi Nitta	<ul style="list-style-type: none"> • Behavioral pharmacological, molecular biological and cell biological studies to clarify the function of the novel molecules for the psychiatric diseases • Study for the clarification of the mechanisms of establishment of addiction of nicotine, THC and methamphetamine • Investigation of the mechanism of aging and functional foods on learning memory. • Pharmaceutical studies and Pharmaceutical educational methods
Clinical Pharmaceutics	Professor Isao Adachi (will be retired in March 2020)	<ul style="list-style-type: none"> • Drug seed discovery research and evaluation of drugs targeting diabetes, allergic disorders, and other illnesses centered on glycomimetic alkaloids and herbal medicine-derived compounds • Biochemical research concerning glucolipid metabolic disorders focused on the properties of glycoproteins, glycohydrolases, and glycosyltransferases • Medical pharmaceutical research concerning the interaction of pharmaceuticals and biological membranes in clinical settings
Kampo Diagnostics	Professor Naotoshi Shibahara	<ul style="list-style-type: none"> • The pharmacological effects of Kampo medicines and their herbal components, as well as their mechanisms of action • The search for indicators of Kampo medicinal pathology and proof