Handbook for Graduate Students

Division of Pharmaceutical Sciences
(Doctoral Level Section of Integrated Course)

2017
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</table>
Graduate School of Medical Sciences  
Division of Pharmaceutical Sciences, Doctoral Level Section of Integrated Course  

<table>
<thead>
<tr>
<th>Number of students: 11 students</th>
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### Admission Policy (AP)

This program aims to arouse the latest knowledge and skills, as well as superior research abilities in the academic disciplines, including pharmaceutical sciences, medical and health sciences, centered on pharmaceutical sciences. Through advanced and developmental education and research approaches of the pharmaceutical sciences, the school trains independent and genuine researchers equipped with superior creativity, deep insight, great research planning abilities, strong leadership and global competitiveness. Specifically, the school cultivates human resources who play an active role as professionals engaged in the discovery, development and planning of new drugs in the pharmaceutical industry, faculty members at universities, researchers of public institutions, administrative officers in the area of medical care, public welfare, pharmaceutical affairs and environmental sciences. The Division of Pharmaceutical Sciences accepts any students regardless of previous experience in an academic discipline if they strive to succeed in these types of jobs in the future.

As basic policy on our selection of students, we consider that the followings are important:
- A higher level of academic ability (major field and English)
- High comprehension and passion to the research work
- Strong motivation to succeed in the field described above in future

In the selection process, we evaluate the basic academic ability, English proficiency, logical thinking ability, comprehension to research subject and so on.

### Curriculum Policy (CP)

This program employs a radical curriculum composition to foster human resources who combine the latest knowledge and excellent research capacities centered on pharmaceutical sciences. The entire teachers consisting of the program offer specialized classes of pharmaceutical sciences in the area are specialized in allowing students to select and enroll in classes that are of interest to them. All of these lecture classes provide students with the most advanced knowledge so that students can deepen their knowledge and utilize it to carry out their own research projects. In addition, the special research seminar of pharmaceutical sciences taught by primary supervisors aims to develop the ability to read the scientific literature, provide explanations and transmit information based on the scientific literature, as well as the ability to make a presentation on the research outcomes. Using the knowledge and techniques acquired from the class, students work on special research of pharmaceutical sciences in a specialized area of their choice with the help of primary supervisors throughout the academic term. This class aims to develop not only the research abilities but also thesis writing skills, presentation and discussion skills and English proficiency.

### Diploma Policy (DP)

The goal of this program is to produce students who have acquired advanced knowledge, superior research abilities in the academic disciplines and global vision centered on pharmaceutical sciences. To achieve this, the proficiency level of students is determined based on reports in a lecture class. Additionally, to determine the proficiency level in research skills, thesis writing skills, presentation and discussion skills, students must submit a thesis describing research outcomes and conduct an oral presentation and discussion, which are reviewed by Graduate School Committees. The majority of research outcomes must be publicized (or accepted for publication) in peer-reviewed academic journals. Students who have passed the entire process are granted the Doctor of Pharmaceutical Sciences or the Doctor of Philosophy.

### Envisioned career path:
- Pharmaceutical companies (developers/researchers, scientific researchers)
- Faculty members of universities
- Public research institutes (researchers)
- Government institutions (public administrators)
## Class subjects list for Graduate School of Medical Sciences (for students of Academic Year April 2017)

<table>
<thead>
<tr>
<th>Class subject name</th>
<th>Academic Supervisor</th>
<th>Timetable No.</th>
<th># of credit</th>
<th>Even-numbered year</th>
<th>Odd-numbered year</th>
<th>note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fostering the Independence of Researchers</td>
<td>The educational affairs committee</td>
<td>01000</td>
<td>1</td>
<td></td>
<td></td>
<td>*1</td>
</tr>
<tr>
<td>Interdisciplinary Seminar</td>
<td>Primary academic supervisor</td>
<td>-</td>
<td>1</td>
<td></td>
<td></td>
<td>*2</td>
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<td>Molecular Biology of Cancer</td>
<td>Tsukasa Matsunaga</td>
<td>01003</td>
<td>2</td>
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<tr>
<td>Analytical Method in Chemistry</td>
<td>Akira Odani</td>
<td>01004</td>
<td>2</td>
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</tr>
<tr>
<td>Organic Chemistry Focused on Biological Functions</td>
<td>Munetaka Kunishima</td>
<td>01007</td>
<td>2</td>
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<tr>
<td>Molecular Pharmacology</td>
<td>Katsuyuki Kaneda</td>
<td>01008</td>
<td>2</td>
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<td></td>
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<tr>
<td>Topics and Importance of Vaccine Development</td>
<td>Shigeto Yoshida</td>
<td>01009</td>
<td>2</td>
<td></td>
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</tr>
<tr>
<td>Environmental Risk Assessment</td>
<td>Akira Toriba</td>
<td>01010</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Biochemistry in Innate Immunity</td>
<td>Akiko Shiratsuchi-Hirayama</td>
<td>01011</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Cellular Immunology</td>
<td>Manabu Inobe</td>
<td>01012</td>
<td>2</td>
<td></td>
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<tr>
<td>Cell Cycle Regulation</td>
<td>Katsumi Yamashita</td>
<td>01013</td>
<td>2</td>
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<tr>
<td>Applied Pharmacognosy</td>
<td>Kyoko Nakagawa-Goto</td>
<td>01014</td>
<td>2</td>
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<tr>
<td>Asymmetric Catalysis</td>
<td>Fuyuhiko Inagaki</td>
<td>01015</td>
<td>2</td>
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<tr>
<td>Green Organic Chemistry</td>
<td>Masahiko Uchiyama</td>
<td>01016</td>
<td>2</td>
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<tr>
<td>New Reactions for Organic Synthesis</td>
<td>Junichi Matsu</td>
<td>01017</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medicinal Plant Resources</td>
<td>Youhei Sasaki</td>
<td>01018</td>
<td>2</td>
<td></td>
<td></td>
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<tr>
<td>Diagnostic Imaging from The Point of View of Pharmaceutical Science</td>
<td>Kazuma Ogawa</td>
<td>01019</td>
<td>2</td>
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<tr>
<td>Integral Pharmacology</td>
<td>Eiichi Hinoi</td>
<td>01020</td>
<td>2</td>
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<tr>
<td>Pharmacotherapeutics for Brain Diseases</td>
<td>Noritaka Nakamichi</td>
<td>01021</td>
<td>2</td>
<td></td>
<td></td>
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<tr>
<td>Pharmacokinetics for Chemotherapeutics</td>
<td>Takeo Nakanishi</td>
<td>01022</td>
<td>2</td>
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<tr>
<td>Advanced Drug Metabolism</td>
<td>Tatsuki Fukami</td>
<td>01023</td>
<td>2</td>
<td></td>
<td></td>
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<tr>
<td>Advanced Lectures on Molecular Functions</td>
<td>Masanori Kitamura</td>
<td>01026</td>
<td>2</td>
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<tr>
<td>Stereoregulated Syntheses of Functional Molecules</td>
<td>Tomoyuki Yoshimura</td>
<td>01029</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Applied Protein Science</td>
<td>Mitsuhiro Iyori</td>
<td>01030</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental Fate of Chemicals</td>
<td>Tang Ning</td>
<td>01031</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Exercise in Pharmaceutical Sciences</td>
<td>Primary academic supervisor</td>
<td>---</td>
<td>2</td>
<td></td>
<td></td>
<td>*3</td>
</tr>
<tr>
<td>Research in Pharmaceutical Sciences</td>
<td>Primary academic supervisor</td>
<td>---</td>
<td>2</td>
<td></td>
<td></td>
<td>*3</td>
</tr>
</tbody>
</table>

*1 Subject highlighted with is a compulsory subject.

*2 Please register only at the time of school entry as they are perennial subjects.

*3 Subject highlighted with is a compulsory subject.

Please register only at the time of school entry as they are perennial subjects.
The timetable numbers vary depending on a laboratory that each student is affiliated with. Be sure to check the timetable numbers on the Acanthus Portal.
To find information on lecture contents and contact info of academic supervisors, go to the Syllabus of Kanazawa University (http://isab.adm.kanazawa-u.ac.jp/).
Check with academic supervisors to find detailed time schedule of classes. Class schedule is subject to change without prior notice.
Requirements for Course Completion

To complete the Doctoral Level Section of Integrated Course in the Division of Pharmaceutical Sciences, you must meet all three requirements below:
- You must be in residence for a minimum of three years at the university;
- You must acquire a minimum of 10 credits and attend the necessary lectures and obtain the research guidance;
- You must pass both the defense of your doctoral thesis and the final examination;

Students with outstanding research accomplishments can be considered for early graduation from the doctoral course on the condition that they have been in residence for at least three years including the master’s course.

For details, please contact your primary supervisor.

Course Registration

<table>
<thead>
<tr>
<th>Essential GS Course</th>
<th>Fostering the Independence of Researchers</th>
<th>1 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Compulsory subjects of the Division of Pharmaceutical Sciences</td>
<td>Exercise in Pharmaceutical Sciences (2 credits) Research in Pharmaceutical Sciences (2 credits)</td>
<td>4 credits</td>
</tr>
<tr>
<td>(2) Optional subjects of the Division of Pharmaceutical Sciences</td>
<td>Three subjects and more</td>
<td>5 credits and more</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>10 credits and more</td>
</tr>
</tbody>
</table>

A list of optional subjects recommended for each special area

<table>
<thead>
<tr>
<th>Special area</th>
<th>Recommended subject</th>
<th># of credits</th>
</tr>
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<tbody>
<tr>
<td>Common subjects</td>
<td>Interdisciplinary Seminar</td>
<td>1 credits</td>
</tr>
<tr>
<td>Biological area</td>
<td>Topics and Importance of Vaccine Development (Yoshida) Cellular Immunology (Inobe) Molecular Biology of Cancer (Matsunaga) Cell Cycle Regulation (Yamashita) Biochemistry in Innate Immunity (Shiratsuchi-Hirayama) Applied Protein Science (Iyori)</td>
<td>2 credits 2 credits 2 credits 2 credits 2 credits</td>
</tr>
<tr>
<td>Pharmaceutical area</td>
<td>Pharmacotherapeutics for Brain Diseases (Nakamichi) Pharmacokinetics for Chemotherapeutics (Takeo Nakanishi) Molecular Pharmacology (Kaneda) Advanced Drug Metabolism (Fukami) Integral Pharmacology (Hinoi)</td>
<td>2 credits 2 credits 2 credits</td>
</tr>
<tr>
<td>Environmental/Analytical area</td>
<td>Environmental Chemicals (to be assigned) Analytical Method in Chemistry (Odani) Diagnostic Imaging from The Point of View of Pharmaceutical Science (Ogawa) Environmental Risk Assessment (Toriba) Environmental Fate of Chemicals (Tang)</td>
<td>2 credits 2 credits 2 credits</td>
</tr>
<tr>
<td>Chemical area</td>
<td>New Reactions for Organic Synthesis (Matsuo) Green Organic Chemistry (Uchiyama) Organic Chemistry Focused on Biological Functions (Kunishima) Advanced Lectures on Molecular Functions (Kitamura) Asymmetric Catalysis (Inagaki) Stereocontrolled Syntheses of Functional Molecules (Yoshimura)</td>
<td>2 credits 2 credits 2 credits</td>
</tr>
<tr>
<td>Natural products/Pharmacognostical area</td>
<td>Medicinal Plant Resources (Sasaki) Applied Pharmacognosy (Nakagawa-Goto)</td>
<td>2 credits 2 credits</td>
</tr>
</tbody>
</table>
1. Research Guidance System

The Division of Pharmaceutical Sciences employs a guidance system with multiple teachers to improve the quality of research guidance.

1) Research guidance group

(1) Each student is assigned to a research guidance group consisting of one primary supervisor and two supervisors.

(2) The formation of each research guidance group is decided at committee meetings of each division.

(3) Primary supervisors bear the responsibility of providing guidance to help students prepare plans for taking subjects and research plans, carry out research, prepare an interim research report and doctoral thesis, as well as degree applications.

(4) Supervisors assist primary supervisors.

2. Research guidance and degree application procedure

The following is the schedule for research guidance and the degree application procedure so that students may meet the requirements within a specified course term.

(1) Students must receive counseling from a research guidance group immediately after entering the school and prepare the "[Form 1] Research Plan" and "[Form 2] Academic and Research Plan" for submission to the primary supervisor. Form 1 contains a complete description of research plan during the academic years and Form 2 contains an academic and research plan for each academic year. These forms can be obtained from the following web site. ( http://www.p.kanazawa-u.ac.jp/student/format.html )

(2) Students must submit a program registration of the academic year on the Acanthus Portal before specified date in accordance with Form 2. The deadlines for each program registration will be announced on the Acanthus Portal at the beginning of each term. (See page 8)

(3) Students must conduct their research according to research plan. If there is a major change in research plan, notify the research guidance group and modify Form 1 and Form 2 after consulting with the group.

(4) Students must compile research outcomes into a doctoral thesis with the help of the research guidance group. The prepared doctoral thesis is reviewed and modified by the group and sent to a preliminary examination.

(5) Students must complete a degree application procedure in accordance with the review requirements for the doctoral thesis.

(6) Students must undergo the evaluation of the doctoral thesis and final oral examination of the doctoral thesis.

(7) Students who have completed the above steps are evaluated at a committee meeting of each division for final review based on the credit acquisition status and the results of the final examination. Those who have passed the final review may complete the doctoral course and receive the Doctor of Philosophy in Pharmaceutical Sciences or Doctor of Philosophy.
Guidelines for Research Guidance

January 4, 2012

Approved by Establishment Preparation Committee of Doctoral Level Section of an Integrated Course of the Division of Pharmaceutical Sciences and Division of Pharmacy for the Doctoral Course

Approved by the Faculty Committee of the Pharmacy Field on July 4, 2012

To be effective as of April 1, 2012

The Division of Pharmaceutical Sciences and the Division of Pharmacy, Graduate School of Medical Sciences, Kanazawa University, implements the following guidelines for guidance, such as preparing the doctoral thesis ("research guidance"):

1. The primary supervisor shall use Form 1 of the research plans submitted by the student to determine plans for research guidance until the student's final academic year upon consultation with the student and provide it to the student after admission to the school without delay.
2. The primary supervisor shall, at his or her discretion, receive a report describing the progress of research from the student. Upon consultation with the student, the primary supervisor shall review and modify the research guidance plans prepared in 1. above if the need arises.
3. The student shall prepare Form 2 of the academic and research plans according to Form 1 of the research plans and submit it to the primary supervisor at the beginning of each academic year.
4. The primary supervisor shall retain Forms 1 and 2 of the research plans related to the student for five years after graduation.
Academic Year 2017

Research Plan

Integrated course of Doctoral Levels

Graduate School of Medical Sciences,  
Division of ____________  
                      Student Number

<table>
<thead>
<tr>
<th>Name</th>
<th>Signature</th>
<th>Name of primary supervisor</th>
<th>Signature</th>
</tr>
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<tbody>
<tr>
<td></td>
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Research theme

<table>
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<tr>
<th>Purpose</th>
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<tbody>
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<table>
<thead>
<tr>
<th>Description</th>
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</table>

Research plans

<table>
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<table>
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<th>2nd year</th>
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<table>
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<th>3rd year</th>
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</table>

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<tr>
<th>4th year</th>
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</tbody>
</table>

Date: ___ / ___ / ___

- 6 -
Year 20__ Academic and Research Plan

Graduate School of Medical Sciences,
Division of ____________

Student Number

<table>
<thead>
<tr>
<th>Name</th>
<th>Signature</th>
<th>Name of primary supervisor</th>
<th>Signature</th>
</tr>
</thead>
</table>

Research theme

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td>Class title</td>
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</tbody>
</table>

Notes
1. Course registration must be conducted on the Acanthus Portal.
2. After completing course registration, be sure to check the list of course registration authorizations to be sent to you at a later date.

Date: __ / __ / _____
Students must register all courses for which they wish to obtain credits during the semester.

(1) **Determination of courses**

Students are encouraged to refer to the list of courses on pages 2 and the syllabus (http://sab.adm.kanazawa-u.ac.jp/) and prepare Form 2 of the academic and research plan on page 7 upon consultation with the primary supervisor.

(2) **Course registration**

Students may use the Acanthus Portal (https://acanthus.cis.kanazawa-u.ac.jp/Portal/) to register courses that they want to take for each semester according to Form 2 of the academic and research plan prepared at (1).

Please log in to the Acanthus Portal using the ID and password provided with this guidebook. Students are encouraged to access the website once.

Be sure to check the course registration deadline on the Acanthus Portal and complete the registration within the time frame.

For details on how to register courses from the Acanthus Portal, please refer to the "Handbook for Graduate Students" on page 145.

* Courses in semester 2 can also be registered together with the courses for semester 1. The opposite case is not allowed.
* Make sure there are no omissions.
* Acanthus Portal may be accessed from any computer as long as it is connected to the Internet, regardless of whether you are on campus or off campus.

(3) **Receipt of the course registration authorization list and confirmation of registration information**

After registering courses, a course registration authorization list will be issued by the Pharmacy Student Affairs Section. This authorization list must contain all of the courses you would like to take for credit certification. Be sure to check the list because courses not listed on the authorization list will not be counted towards credits after taking the courses.

If there are any corrections, make a correction on the Acanthus Portal within a set time frame in the same manner as the registration.

(Reference) **Course registration for the first semester 2017**

[First semester]
- Monday, April 10 through Friday, April 21: Course registration period for classes and subjects
- Tuesday, April 25 through Thursday, April 27: Issue of course registration authorization list (confirmation of registered classes), Correction period of classes and subjects
- From Monday, May 1: Issue of course registration authorization list after correction

[Second semester]
- Monday, October 2 through Thursday, October 19: Course registration period for classes and subjects

* Internet access is available for 24 hours. (To be advised the beginning time and deadline for course registration.)
1. **Student identification card**

   Student identification card will be ready for pickup at the Pharmacy Student Affairs Section (Center window at the office on G2F of Natural Science and Technology Main Hall) from Friday, April 7. **Office hours are 8:30 a.m. to 5 p.m. on weekdays.**

   Students are encouraged to pick up their student identification card without delay as a student number is required for various procedures.

   If you are a student who hold full-time job and cannot go to the Pharmacy Student Affairs Section for pickup due to unavoidable reasons, you may ask your primary supervisor to pick it up on your behalf. In this case, please consult with your primary supervisor in advance.

   Additionally, **students are required to have their student identification card in order to receive periodical health checkups provided by the university.**

<table>
<thead>
<tr>
<th>Periodical Health Checkups</th>
<th>The following is the schedule for students of the Division of Pharmaceutical Sciences enrolled in April 2016:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Males: Friday, April 21. 1:00 p.m. to 4:30 p.m.</td>
<td>Females: Monday, April 17. 1:00 p.m. to 4:30 p.m.</td>
</tr>
<tr>
<td>Location: Health Service Center (Main Hall), Kakuma Campus</td>
<td></td>
</tr>
</tbody>
</table>

2. **Acanthus Portal**

   The University operates the portal site "Acanthus Portal" to implement the ICT education in an effective manner. Using this site, students may obtain important information on courses, achievements, completion status and doctoral thesis information. Students are encouraged to check it frequently. For more details on features and instructions for use, please refer to the Graduate School Handbook on page 159.

3. **Academic year and semester**

   The first academic year of the Division of Pharmaceutical Sciences starts on April 1 and ends on March 31 of the following year.

   Academic year is divided into two semester and four quarter. The first semester (the first and second quarters) starts in April 1 and ends in September 30 and the second semester (the third and fourth quarter) starts in October 1 and ends in March 31.

   The academic calendar that will be posted at the beginning of a new academic year provides information, such as the start date of class and school events.

4. **Change of personal information**

   Students are required to change their personal information using the Acanthus Portal if there are any changes to the address and telephone number of the student and parents provided on the student information form submitted at the time of school entry. If the last name needs to be changed, please follow the procedures as directed at the Pharmacy Student Affairs Section.

   For those who are in employment and covered by the "Special Exception on Education Based on Article 14 of the Standards for the Establishment of Graduate Schools" (See 9), please notify the Student Office if there is a change to a place of employment.

5. **Parking on the Kakuma Campus**

   Due to the limited parking space available on the Kakuma Campus, student vehicles are not permitted to park on campus unless there are special circumstances.

   However, due to unavoidable reasons, if you wish to commute by car, you may apply for a car entry pass at the Pharmacy Student Affairs Section. To be advised more details of application period parking fee on the Acanthus Portal in early April.
6. Temporary withdrawal from the course (leave of absence), returning to the University and permanent withdrawal

In each case, students must carefully consult with the primary supervisor and apply for it. Designated forms can be found at the Pharmacy Student Affairs Section.

(1) Temporary withdrawal

Required document: Request for temporary withdrawal (designated form)

Submission deadline: The 15th of the preceding month in which the student wishes to take leave in principle.

- Temporary withdrawal can be requested by the end of semester or quarter if a student leaves school for illness etc. for more than one month. Doctor's note must be submitted if it is for an illness.
- If you are withdrawing in the middle of a semester, you must pay the full tuition for the semester.

(2) Returning to the University

Required document: Request for reinstatement (designated form)

Submission deadline: The 15th of the preceding month in which the student wishes to return to the University in principle.

- If you wish to return to the University during a leave of absence, you must go through the appropriate reinstatement process.

(3) Permanent withdrawal

Required document: Request for permanent withdrawal (designated form)

Submission deadline: The 15th of the preceding month in which the student wishes to withdraw from the University in principle.

- Request for permanent withdrawal will not be approved if the student has not paid the tuition for the semester or quarter.

7. Certificates

Certificates, such as school certificate, transcript and student discount certificate for Japan Railways, can be instantly obtained from an automatic certificate machine located in front of the window at the Pharmacy Student Affairs Section. When using the machine, follow the directions on the screen and insert your student ID card and enter a PIN (your PIN number is your Acanthus portal ID password).

For more information of the automatic certificate machines, such as location, hours and available types of certificates, refer to Kanazawa University website by visiting “Home > Student Life > Certificates”.

Additionally, the certificates issued at the automatic certificate machines are available to students with a student ID card in principle. However, for unavoidable reasons, students who hold full-time jobs may also request certificates by mail. The request must contain the following three documents and be sent to the Pharmacy Student Affairs Section.

1. Self-addressed stamped envelope (oblong envelope (120 mm × 235 mm) with your address written on the front and affixed with a stamp)
2. Copy of identification (e.g.: Driver's license or insurance card)
3. Document stating the following seven items (in any format)

   (1) Name
   (2) Date of birth
   (3) Student number and division
   (4) Return address
   (5) Daytime phone number of the applicant
   (6) Type of certificate and a number of copies
   (7) Intended use and destination

Address: Kakuma-machi, Kanazawa, 920-1192 Japan  Pharmacy Student Affairs Section

Note:
We do not accept a request for certificates by phone or e-mail. When requesting by mail, please make preparations in advance as it may take up to three days before your request is processed.
8. **Longer-term program policy**

The Division of Pharmaceutical Sciences has a longer-term program policy, which enables students who have difficulty completing the course within the standard length of time (three years) for a good reason, such as having a profession outside of the school, to plan and implement a study program exceeding the standard term to obtain a degree.

If you wish to use this system, contact your primary supervisor or the Pharmacy Student Affairs Section.

(1) **Eligibility**

- Working professional (including temporary hiring)
- Student partaking in housework, childcare, or nursing care

(2) **Application deadline**

The last day of February for the 1st year or 2nd year

9. **Special Exception on Education Based on Article 14 of the Standards for the Establishment of Graduate Schools**

The “Special Exception on Education Based on Article 14 of the Standards for the Establishment of Graduate Schools” is created in order to facilitate postgraduate learning of applicants under special selection who are students who hold full-time jobs.

Please consult the Pharmacy Student Affairs Section if you wish to apply.

Reference:

Standards for the Establishment of Graduate Schools
(Excerpts from No. 28 of Ministry of Education Regulations, 1974)

Article 14: Appropriate education to facilitate teaching and/or research guidance may be implemented in the evening or other times/periods if deemed especially necessary for educational purposes within any postgraduate course.

10. **School buildings**

All of the school buildings are locked during the following hours to limit the entry of outsiders:

- Monday to Friday: 8:00 p.m. to 7:30 a.m.
- Weekends and holidays: All day

If you wish to enter the buildings after hours, swipe your student ID card through the card reader to gain entry.

11. **Alumni Association, Kanazawa University School of Pharmaceutical Sciences**

Alumni Association, Kanazawa University School of Pharmaceutical Sciences is a prestigious alumni association of the Faculty of Pharmaceutical Sciences in the College of Medicine, Pharmaceutical and Health Sciences, Kanazawa University, holding nearly 6,000 members, including the current undergraduate students, graduate students and faculty members from the Division of Pharmacy and Division of Pharmaceutical Sciences.

The purpose of the association is to promote mutual friendship and information exchange between members, as well as to share news and status of the University and members as colleagues engaged in the same studies with the aim to enhance academic development throughout life.

Activities of the association include education support projects for current students (support for extracurricular activities, etc), issuance of newsletters and name lists, announcements of academic information and hosting of lodge meetings after graduation throughout the nation.

We encourage all new students to understand our guidelines and become a member of the association.

Contact: Kakuma-machi, Kanazawa, 920-1192 Japan Executive Office of Alumni Association, Kanazawa University School of Pharmaceutical Sciences Tel:(076)260-6366
<table>
<thead>
<tr>
<th>Laboratory</th>
<th>Contact</th>
<th>Professor</th>
<th>Associate Professor</th>
<th>Assistant Professor</th>
</tr>
</thead>
<tbody>
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<td>Kenji Mishiro</td>
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<td>Hirokazu Ando</td>
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<td>Akira Toriba</td>
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<td>Tang Ning</td>
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<tr>
<td>Physical Chemistry</td>
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<td>Katsumi Yamashita</td>
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<td>Saori Nonaka</td>
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<td>Hirohito Tsuboi</td>
<td>Naoko Yoshida</td>
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<td>Takeo Nakanishi</td>
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<td>Yukio Kato</td>
<td>Noritaka Nakamichi</td>
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<td>Yusuke Masuo</td>
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<tr>
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<td></td>
<td>Miki Nakajima</td>
<td>Tatsuki Fukami</td>
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</tbody>
</table>
By Airplane:
Approx. 2 hours from Incheon (Seoul) to Komatsu Airport
Approx. 2 hours from Pudong (Shanghai) to Komatsu Airport

By Airplane:
Approx. one hour from Haneda (Tokyo) to Komatsu Airport

JR Train:
Approx. 2 hours & 28 minutes from Tokyo Station to Kanazawa Station
Approx. 3 hours from Osaka Station to Kanazawa Station
Approx. 3 hours from Nagoya Station to Kanazawa Station

From Kanazawa Station to Campuses (by Hokuriku Railroad Bus (北陸鉄道バス))
> Kakuma Campus
To “Kanazawa Daigaku Shizenken Mae (in front of Natural Science & Technology Hall, 金沢大学自然研前),” “Kanazawa Daigaku Chuo (Kanazawa University Central, 金沢大学中央)” or “Kanazawa Daigaku (Kakuma) (Kanazawa University (Kakuma), 金沢大学（角間）)” bus stops (Approx. 34-37 min)
Catch a bus #91, 93, 94, or 97 (Route name is Kanazawa Daigaku (Kakuma) (金沢大学（角間）)) from Bus Terminal #6, Kanazawa Station East Exit.

> Takaramachi - Tsuruma Campus
To Kodatsuno (小立野) bus stop (Approx. 20 min)
Catch a bus from
Kanazawa Station East Exit
- Bus Terminal #7 • ex.) Bus #11 (Route name is Tobu Shako (東部車庫))
- Bus Terminal #6 • ex.) Bus #13 (Route name is Yuyagahara/Iozen (湯谷原・医科山))
April 2017

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