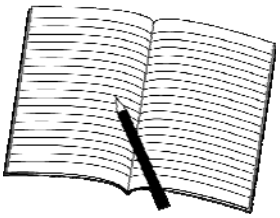
金沢大学
KANAZAWA UNIVERSITY

Handbook



for Graduate Students

Division of Pharmacy
(Doctoral Course)

2018

Contents

Exclusive Summary ····· 1

Class Subjects List for Graduate School of Medical Sciences ····· 2

Requirements for Course Completion ····· 4

Research Guidance ····· 5

Guidelines for Research Guidance ····· 6

[Form 1] Research Plan ····· 7

[Form 2] Academic and Research Plan ····· 8

Course Registration ····· 9

Miscellaneous ····· 10

Research Group Contact List ····· 13

Campus Map ····· 15

Graduate School of Medical Sciences
Division of Pharmacy, Doctoral Course

Number of students: 4 students

- **Admission Policy (AP)**

The Division of Pharmacy aims to arouse the latest knowledge in the medical academic discipline, to conduct practical research as a medical professional as well as a strong sense of ethics and global vision, centered on pharmacy and the capability. In an interdisciplinary environment unique to the graduate school that coordinates across the three medical disciplines of pharmaceutical, medical and health sciences, the School aims to develop highly professional leaders of pharmaceutical education and research, as well as medical experts who combine the discipline of natural science and excellent research abilities through education covering various fields from the basics of pharmacy to clinical pharmacy.

Specifically, the school accepts those who aim to be active on the front lines in highly expertised practice, such as pharmacists who play a leading role in clinical practice; pharmaceutical faculty members who are in a position to lead the medical pharmaceutical education and research; public administrators engaged in the fields of medical, public welfare, pharmaceutical affairs and the environment; and researchers of new drug development and clinical pharmacotherapy.

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)**

The Division of Pharmacy enables students to extensively learn not only pharmaceutically related subjects but also the most advanced medical science deeply related to pharmacy and technical English and provides curriculums that contribute to education and research combined with medical pharmaceutical science for the realization of advanced pharmacotherapy. Specifically, (1) the Initial-stage Comprehensive Curriculum provides vast learning of advanced medical study related to pharmacy, (2) Frontier Life Science encourages students to actively take seminars in a related field to encourage the acquisition of knowledge. (3) The Seminar on Advanced Medical Science promotes active participation of students in academic conferences, and credits are granted for presentations at related conferences, aiming to cultivate the habits of striving for new knowledge. (4) Elective courses in pharmacy provides 10 types (20 credits) of major subjects taught by teachers of pharmacology to encourage the acquisition of leading edge knowledge in consideration of an individual career path, as well as training for practical clinical activities and to help students acquire academic knowledge and abilities to conduct research in a systematic manner. (5) The curriculum consists of the Seminar for Research Practice that offers learning in the laboratory seminar conference setting, the Research in Medico-Pharmaceutical Sciences that aims to prepare doctoral thesis for degree application and the Exercise in Medico-Pharmaceutical Sciences that provides practical training for conference presentations. By taking these curriculums, students can work on the up-to-date research projects in the specialized academic domain.

- **Diploma Policy (DP)**

The goal of the Division of Pharmacy is to foster pharmacists who have advanced knowledge in a speciality, excellent research abilities and global vision by implementing an advanced interdisciplinary approach necessary for medical experts and working on the newest medico-pharmaceutical related studies under the leadership of Graduate School Committees. To achieve this, students will extensively learn the latest medical science related to pharmacy and take various major subjects. The Research in Medico-Pharmaceutical Sciences lets 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 Pharmacy or Doctor of Philosophy.

- **Envisioned career path:**
  - Medical institutions (e.g., hospital, pharmacy)
  - Pharmacy schools (e.g., faculty members)
  - Medical or pharmacy-related affairs
  - Research and development departments of pharmaceutical and chemical companies
  - Sales and academic departments of pharmaceutical and chemical companies

Class subjects list for Graduate School of Medical Sciences (for students of Academic Year April 2018)

Division of Pharmacy (Doctoral Course)

Subject Category		Class Name	Academic Supervisor	Timetable No.	# of credit		Schedule	Note
					Compulsory	Optional		
Initial Stage Comprehensive Curriculum		Reading and Writing of Scientific Papers	-	06001		1		
		Information Processing	-	06110		2		
		Practice in Bio-Statistics	-	06002		1		
		Cell Culture	-	06003		1		
		Cell Culture (Practice)	-	06004		1		
		Culture of Bacteria	-	06005		1		
		Culture of Bacteria (Laboratory Practice)	-	06006		1		
		Methodology of Morphological Analysis	-	06007		1		
		Practice of Methods for Morphological Analysis	-	06008		1		
		Gene Engineering	-	06009		1		
		Practice of Gene Engineering	-	06010		1		
		Methodologies in Biochemistry & Molecular Biolog	-	06011		1		
		Experiments in Biochemistry & Molecular Biology	-	06012		1		
		Immunology	-	06013		1		
		Immunology Practice	-	06014		1		
		Methods of Isotope Tracer Experiment	-	06015		1		
		Training of Isotope Tracer Technique	-	06016		1		
		Laboratory Animal Science	-	06017		1		
		Laboratory Animal Science Training	-	06018		1		
		Methodology of Social Medicine	-	06021		1		
		Practice of Social Medicine	-	06022		1		
		General Approach to the Patients	-	06111		2		
	★	Introduction to Basic Medical Science Ⅰ	Gary Ross	09423		1	Semester 1	
	★	Introduction to Basic Medical Science Ⅱ	Gary Ross	09424		1	Semester 2	
		Introduction to Clinical Medicine	-	06102		2		
		Medical Sciences	-	06107		2		
	★	Frontier Life Science	Primary supervisor	09426		2	Semester 1 & 2	
		Introduction to Molecular Biology of Cancer	-	06023		1		
		Itemized Lectures on Molecular Oncology	-	06024		1		
		Itemized Lectures on Medical Statictics	-	06025		1		
		Itemized Lectures on Clinical Nutrition	-	06026		1		
		Seminar of Medical Statictics	-	06027		1		
	★	Regulatory Science of Medical Products	Primary supervisor	09032		2	Year-round	
Common Subjects for the Doctoral Course		Seminar on Tumor Biology	-	06106		2		
	★	Seminar on Advanced Medical Science	Primary supervisor	09602		2	Year-round	
		Mouse Embryo Manipulation Basic Course	-	06019		1		
		Gene Engineering Basic Course	-	06020		1		
Division of Pharmacy	Vascular Biology and Medicine	Molecular Biology of the Cardiovascular System	-	03001		12		
		Vascular Cell Biology	-	03002		6		
		Biomedical Sciences	-	03003		6		
		Signal Transduction in the Vascular System	-	03011		12		
		Circulation Physiology	-	03012		6		
		Pathophysiology of Vascular Proliferative Disorder	-	03013		6		
		Angiogenesis and Connective Tissue Metabolism	-	03021		12		
		Connective Tissue Diseases	-	03022		3		
		Dermatology	-	03023		3		
		Neoplasm of the Skin	-	03024		3		
		Immunology of the Skin	-	03025		3		
	Clinical Chemistry and Laboratory Medicine	Clinical Chemistry and Laboratory Medicine	-	03031		12		
		Laboratory Medicine	-	03032		6		
		Microbiology	-	03033		2		
		Endocrinology	-	03034		4		
		Transmission of Mediator Signals in Blood	-	03041		12		
		Intensive Care Medicine	-	03042		4		
		Critical Care Medicine	-	03043		4		
		Emergency and Critical Care Medicine	-	03044		4		
	Vascular Medicine	Internal Medicine	-	03051		12		
		Cardiology	-	03052		4		
		Endocrinology and Metabolism	-	03053		8		
		Neonatal and Developmental Medicine	-	06605		12		
		Pediatric Hematology and Oncology	-	06606		4		
		Hereditary Metabolic Diseases	-	06607		4		
	Vascular Medicine	Pediatrics	-	06608		4		
		Radiotheraphy	-	06546		12		
		Radiological Diagnosis	-	06547		4		
		Endovascular Therapy	-	06548		4		
		Magnetic Resonance Imaging	-	06549		2		
		Imaging Diagnosis	-	06550		2		
		Cardiovascular System	-	06557		12		
		Cardiovascular Surgery	-	06558		6		
		Thoracic Surgery	-	06559		6		

Subject Category		Class Name	Academic Supervisor	Timetable No.	# of credit		Schedule	Note
					Compulsory	Optional		
Division of Pharmacy	Biomolecule and Medical Chemistry	Molecular Information Pharmacology	-	03091		12		
		Cellular Signal Transduction	-	03092		6		
		Molecular Function Analysis	-	03101		12		
	Medicinal Informatics	Medicinal Informatics	-	03121		12		
		Drug Interaction	-	03122		6		
		Drug Therapeutics	-	03123		6		
	Healthcare Management and Medical Informatics	Advanced Study on Healthcare Management	-	03131		12		
		Medical Safety Management	-	03132		2		
		Healthcare Marketing	-	03133		2		
		Advanced Lecture on Healthcare management	-	03134		2		
	Medicine and Pharmacy	★ Prevention and Treatment of Infectious Diseases	Yoshinobu Nakanishi	05001		2	Biennially (Semester 1 in the even years)	Until Academic Year 2018
		★ Drug Metabolism and Toxicology	Miki Nakajima	05002		2	Biennially (Semester 2 in the even years)	
		★ Molecular Biopharmaceutics	Ikumi Tamai	05003		2	Biennially (Semester 1 in the odd years)	
		★ Prediction and Evaluation of Drug Efficacy	Yukio Kato	05004		2	Biennially (Semester 2 in the odd years)	
		★ Research Methods for Social Epidemiology	Hirohito Tsuboi	05005		2	Biennially (Semester 2 in the even years)	
		★ Clinical Drug Information	Kunizo Arai	05007		2	Biennially (Semester 2 in the odd years)	Until Academic Year 2019
		★ Clinical Pharmacokinetics	Ryo Matsushita	05008		2	Biennially (Semester 1 in the even years)	
		★ Medical Communication	Junko Ishizaki	05009		2	Biennially (Semester 2 in the even years)	
		★ Advanced Self-defense Mechanisms	Takayuki Kuraishi	05014		2	Biennially (Semester 1 in the odd years)	
		★ Management of Cancer Chemotherapy	Yukio Suga	05015		2	Biennially (Semester 1 in the odd years)	
		★ Seminar for Research Practice	Primary supervisor	-	12		Year-round	
		★ Exercise in Medico-Pharmaceutical Sciences	Primary supervisor	-	2		Year-round	
		★ Research in Medico-Pharmaceutical Sciences	Primary supervisor	-	2		Year-round	
	Common Subject for Division of Pharmacy	Recent Advance in Medicine	-	06301		10		
		Seminar on Up-To-Date	-	06321		2		

[Notes on course registration]

Subject marked with ★ is a recommended course provided by academic supervisors in the pharmacy field.

Please refer to the registration guide and course model on page 4 when registering classes.

Registration of subjects not marked with ★ requires a separate registration. In that case, contact the Pharmacy Student Affairs Section immediately.

Additionally, be sure to register compulsory subjects for the first year at the time of school entry (no need to register for the 2nd, 3rd and 4th year).

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://sab.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

Requirements for completion of the course

To complete the Doctoral Course in the Division of Pharmacy, you must meet all three requirements below:

- You must be in residence for a minimum of four years at the university;
- You must acquire a minimum of 34 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;

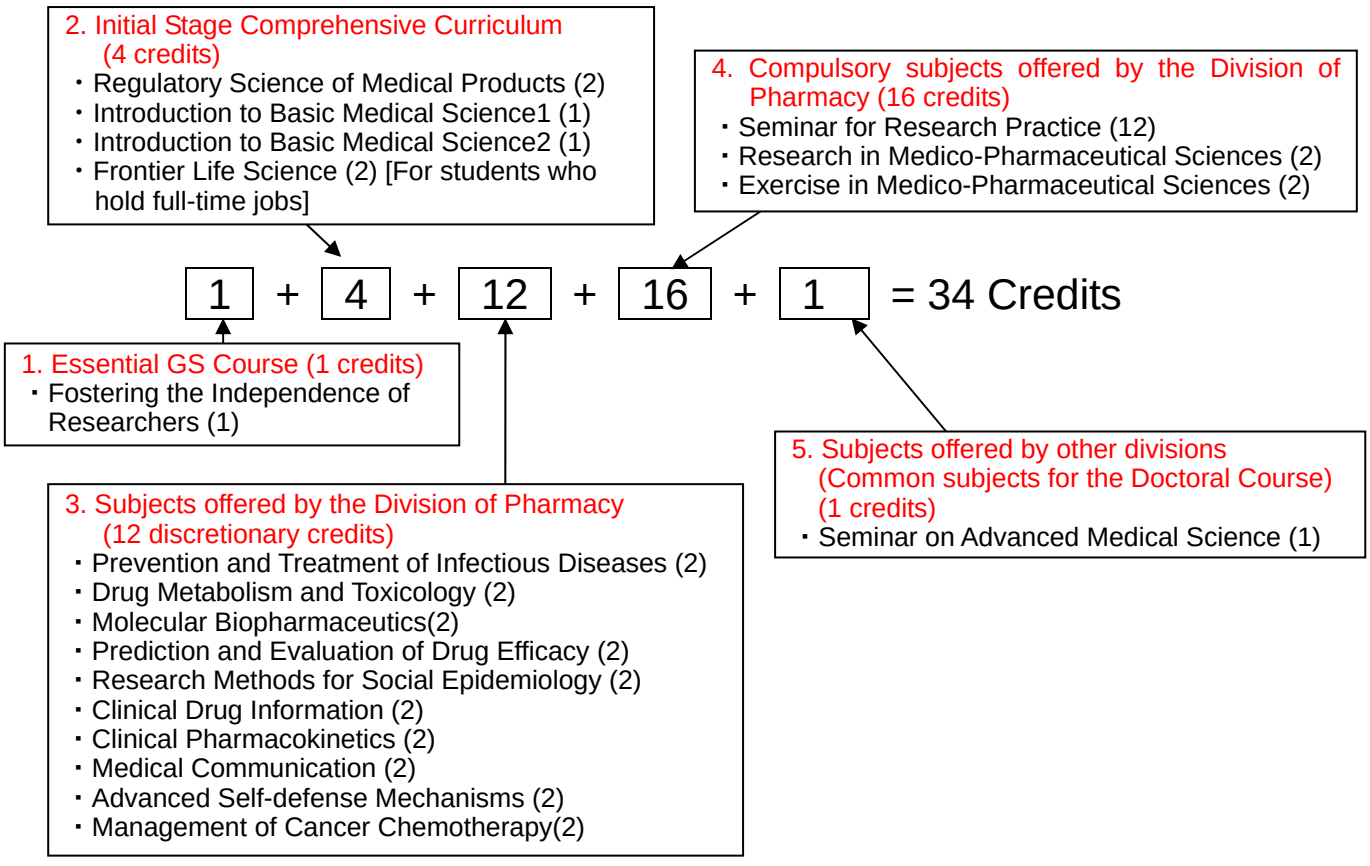
Students with outstanding research accomplishments can be considered for early graduation from the doctoral course on the condition that they have been in residence for at least three years.

For details, please contact your primary supervisor.

Course Registration

Essential GS Course	Fostering the Independence of Researchers	1 credits
Initial Stage Comprehensive Curriculum		4 credits and more
Optional subjects offered by the Division of Pharmacy		12 credits and more
Compulsory subjects offered by the Division of Pharmacy	Seminar for Research Practice (12 credits) Exercise in Medico-Pharmaceutical Sciences (2 credits) Research in Medico-Pharmaceutical Sciences (2 credits)	16 credits and more
Subjects offered by other divisions (common subjects for the Doctoral Course)		1 credits and more
Total		34 credits and more

Course model: Requirements for course completion (34 Credits)



Research Guidance

1. Research Guidance System

The Division of Pharmacy 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 9)

(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 Pharmacy 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 2018

Research Plan

Doctoral course

Graduate School of Medical Sciences, Division of _____		Student Number	

Name	Signature	Name of primary supervisor	Signature

Research theme	

Purpose	
Description	
Research plans	1st year 2nd year 3rd year 4th year Date: / /

[Form 2]

Year 20__ Academic and Research Plan

Doctoral course

Graduate School of Medical Sciences, Division of _____	Student Number	

Name	Signature	Name of primary supervisor	Signature

Research theme	

Description						
Courses	Class title	Credit	Taught by	Class title	Credit	Taught by

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: / /

Course Registration

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 (https://eduweb.sta.kanazawa-u.ac.jp/portal/Public/Syllabus/SearchMain.aspx) 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 150.

* 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 2018

[First semester]

- Monday, April 9 through Thusday, April 25: Course registration period for classes and subjects

[Second semester]

- Monday, October 1 through Wednesday, October 17: Course registration period for classes and subjects

* Internet access is available for 24 hours. (To be advised the begginning time and deadline for course registration.)

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Miscellaneous

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 Monday, April 9. 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.

[Periodical Health Checkups] The following is the schedule for students of the Division of Pharmaceutical Sciences enrolled in April 2018:

Males: Thursday, April 19. 1:00 p.m. to 4:30 p.m. Females:Friday, April 20. 1:00 p.m. to 4:30 p.m.

Location: Health Service Center (Main Hall), Kakuma Campus

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 163.

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 devided 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 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

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.

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

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

Research Group Contact List

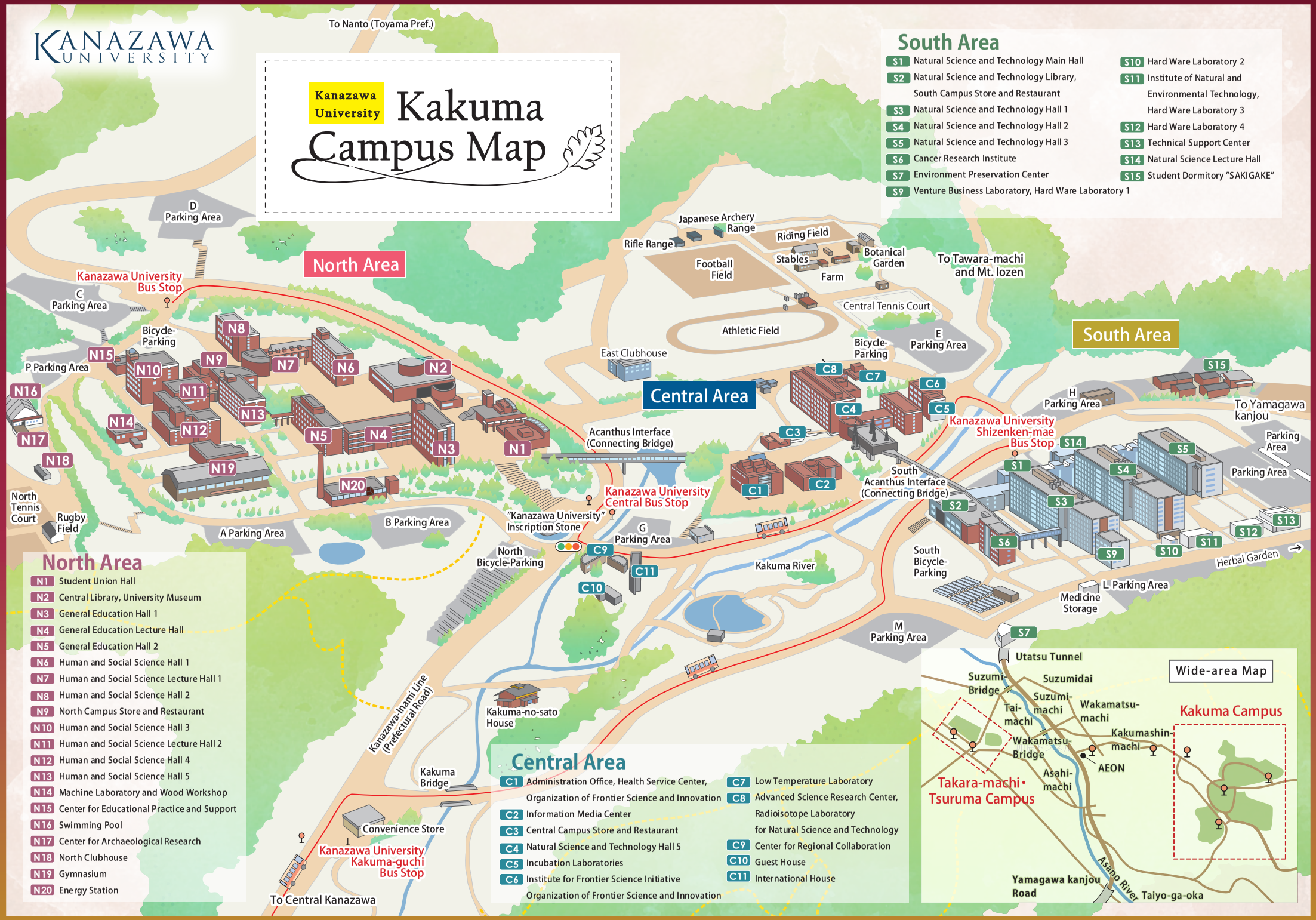
***The rest of the address followed by @ is @p.kanazawa-u.ac.jp.**

Laboratory	Contact	Professor	Associate Professor	Assistant Professor
Host Defense and Reponses	nakanaka@ ☎ 076-234-4481	Yoshinobu Nakanishi	Akiko Shiratsuchi-Hirayama Takayuki Kuraishi	Saori Nonaka
Drug Management and Policy	tsuboih@ ☎ 076-234-4403		Hirohito Tsuboi	Naoko Yoshida
Clinical Drug Informatics	arai@ ☎ 076-264-6224 matusita@ ☎ 076-234-4405 junishi@ ☎ 076-234-6285	Kunizo Arai Ryo Matsushita Junko Ishizaki	Yukio Suga	Natsuko Ishida
Membrane Transport and Pharmacokinetics	tamai@ ☎ 076-234-4479	Ikumi Tamai	Takeo Nakanishi	Hisakazu Komori
Molecular Pharmacotherapeutics	ykato@ ☎ 076-234-4465	Yukio Kato	Noritaka Nakamichi	Yusuke Masuo
Drug Metabolism and Toxicology	nmiki@ ☎ 076-234-4408	Miki Nakajima	Tatsuki Fukami	
Pharmaceutical and Organic Chemistry	ohmiya@ ☎ 076-234-4485 mukai@ ☎ 076-234-4411	Hirohisa Ohmiya Chisato Mukai	Fuyuhiko Inagaki	Shigeo Yasuda
Human Molecular Genetics	matsukas@ ☎ 076-234-4487	Tsukasa Matsunaga	Manabu Inobe Mitsuo Wakasugi	
Bioorganic Chemistry	kunisima@ ☎ 076-264-6201	Munetaka Kunishima	Masanori Kitamura	Kohei Yamada Kenji Mishiro
Clinical and Analytical Sciences	odani@ ☎ 076-234-4459	Akira Odani	Kazuma Ogawa	Tatsuto Kiwada
Vaccinology and Applied Immunology	shigeto@ ☎ 076-234-4463	Shigeto Yoshida	Mitsuhiro Iyori	Takahiko Tamura
Synthetic Organic Chemistry	jimatsuo@ ☎ 076-234-4474	Junichi Matsuo	Tomoyuki Yoshimura	Tsuyoshi Taniguchi
Molecular Pharmacology	k-kaneda@ ☎ 076-234-4468	Katsuyuki Kaneda	Eiichi Hinoi	Satoshi Deyama
Molecular Pharmacognosy	(Goto) kngoto@ ☎ 076-264-6305 (Sasaki) sasaki@ ☎ 076-234-4441		Kyoko Nakagawa-Goto Yohei Sasaki i	Yohei Saito Hirokazu Ando
Hygienic Chemistry	suzukir@ ☎ 076-234-4485	Ryo Suzuki	Akira Toriba	
Physical Chemistry	takahasi@ ☎ 076-234-4484		Hiro Takahashi	Shuichi Fukuyoshi

Yamashita Research Group	katsumi@ ☎ 076-264-6270		Katsumi Yamashita	
Uchiyama Research Group	uchiyama@ ☎ 076-234-4428		Masahiko Uchiyama	
Collaborative Research Group with the Institute of Nature and Environmental Technology	n_tang@ ☎ 076-234-4455		Tang Ning	

KANAZAWA UNIVERSITY

Kanazawa University Kakuma Campus Map



North Area

- N1 Student Union Hall
- N2 Central Library, University Museum
- N3 General Education Hall 1
- N4 General Education Lecture Hall
- N5 General Education Hall 2
- N6 Human and Social Science Hall 1
- N7 Human and Social Science Lecture Hall 1
- N8 Human and Social Science Hall 2
- N9 North Campus Store and Restaurant
- N10 Human and Social Science Hall 3
- N11 Human and Social Science Lecture Hall 2
- N12 Human and Social Science Hall 4
- N13 Human and Social Science Hall 5
- N14 Machine Laboratory and Wood Workshop
- N15 Center for Educational Practice and Support
- N16 Swimming Pool
- N17 Center for Archaeological Research
- N18 North Clubhouse
- N19 Gymnasium
- N20 Energy Station

Central Area

- C1 Administration Office, Health Service Center, Organization of Frontier Science and Innovation
- C2 Information Media Center
- C3 Central Campus Store and Restaurant
- C4 Natural Science and Technology Hall 5
- C5 Incubation Laboratories
- C6 Institute for Frontier Science Initiative Organization of Frontier Science and Innovation
- C7 Low Temperature Laboratory
- C8 Advanced Science Research Center, Radioisotope Laboratory for Natural Science and Technology
- C9 Center for Regional Collaboration
- C10 Guest House
- C11 International House

South Area

- S1 Natural Science and Technology Main Hall
- S2 Natural Science and Technology Library, South Campus Store and Restaurant
- S3 Natural Science and Technology Hall 1
- S4 Natural Science and Technology Hall 2
- S5 Natural Science and Technology Hall 3
- S6 Cancer Research Institute
- S7 Environment Preservation Center
- S9 Venture Business Laboratory, Hard Ware Laboratory 1
- S10 Hard Ware Laboratory 2
- S11 Institute of Natural and Environmental Technology, Hard Ware Laboratory 3
- S12 Hard Ware Laboratory 4
- S13 Technical Support Center
- S14 Natural Science Lecture Hall
- S15 Student Dormitory "SAKIGAKE"

Kanazawa University

Kakuma Campus Guide

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- N8 Human and Social Science Hall 2
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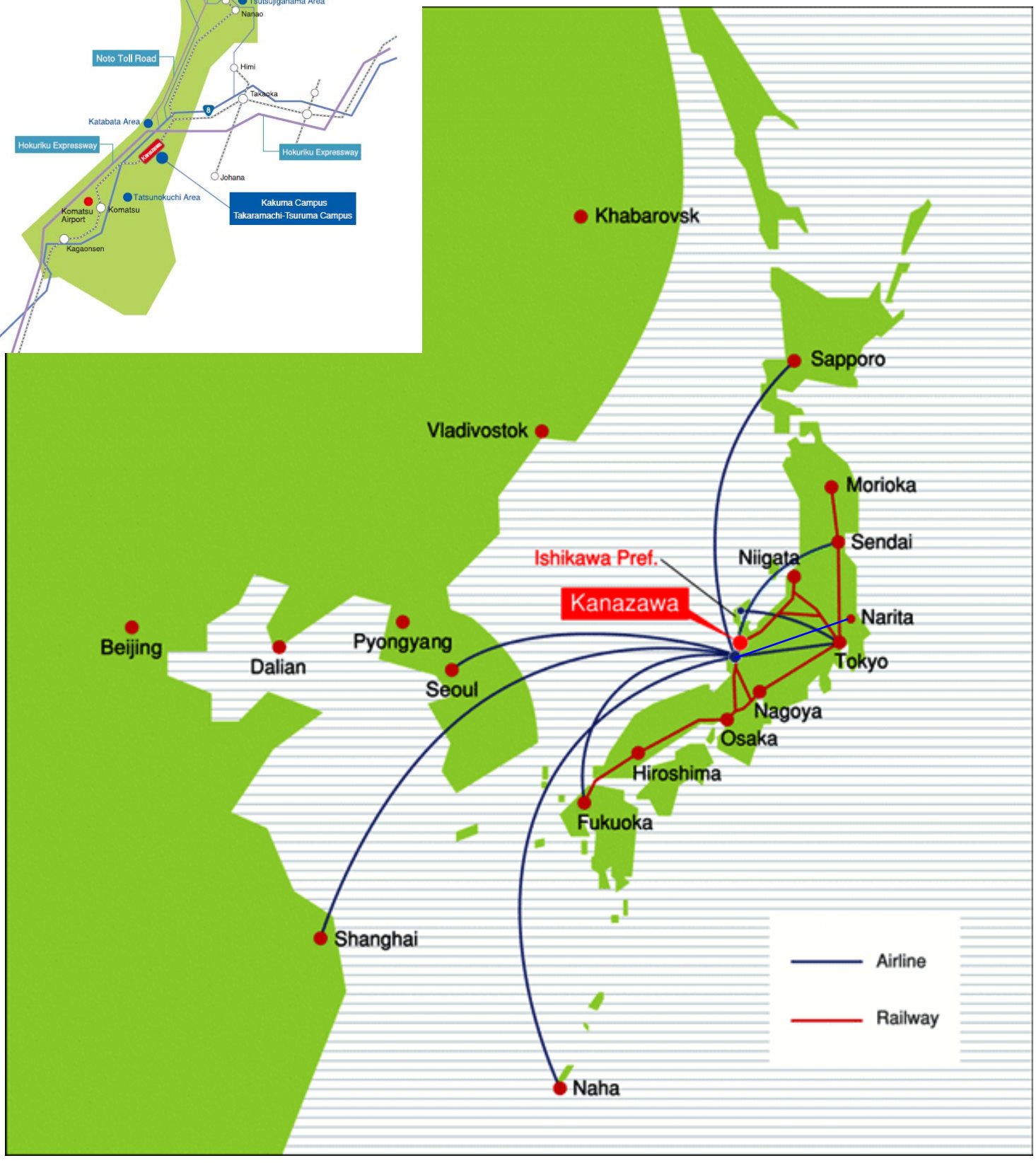
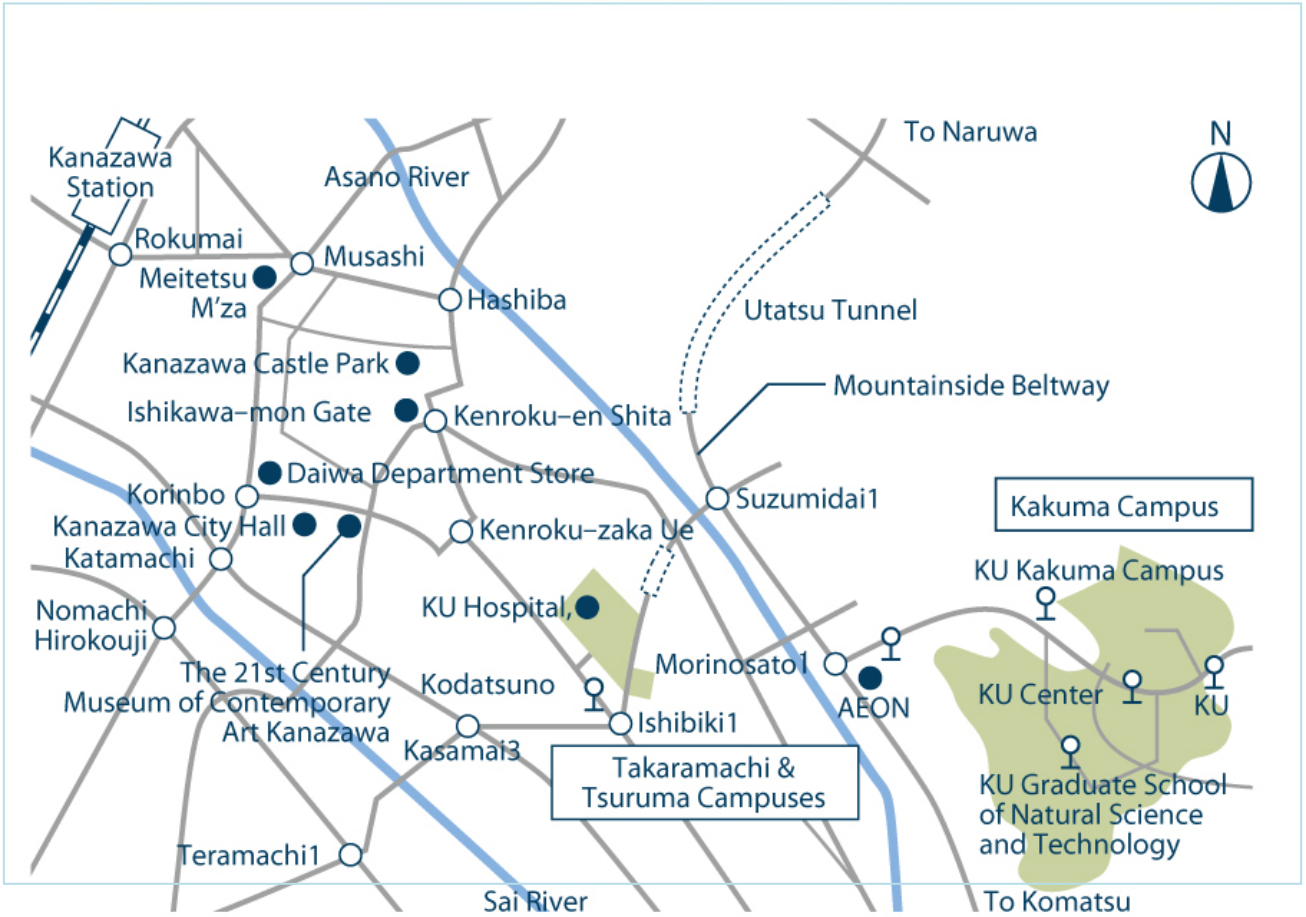
2016.3

Location of Ishikawa Pref. and Kanazawa



Campus Locations

Location of Ishikawa Pref. and Kanazawa



By Airplane:
Approx. 2 hours from Incheon (Seoul) to Komatsu Airport
Approx. 2 hours from Podong (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. 34-37min)
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・医王山))

April 2018

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