



Niigata University of Pharmacy and Medical and Life Sciences



University Guidebook 2025

Message from the President



Nurturing dreams through enterprise and a positive attitude

Takumichi Sugihara, Ph. D

President of Niigata University of Pharmacy and Medical and Life Sciences

Niigata University of Pharmacy and Medical and Life Sciences was established in 1977 as the first private 4-year university in Niigata, Japan.

In April 2023, we opened the Faculty of Medical Technology and the Faculty of Nursing, in addition to its existing Faculty of Pharmacy and Faculty of Applied Life Sciences. It has been moving forward as a "comprehensive university in the field of medicine and health" with four faculties and five departments, including two graduate schools.

Providing distinctive educational programs to become trusted professionals, the university focuses on "scientific exploration of medicine and health" to realize a society where healthy and independent people live. Through practical efforts in education and research in collaboration with local communities, it aims to contribute to "people" and "communities".

Moving towards its 50th anniversary, Niigata University of Pharmacy and Medical and Life Sciences will continue to innovate further.



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The founding spirit of “Practical learning”

Niigata University of Pharmacy and Medical and Life Sciences was established in 1977 on the key principle of "Practice orientated learning" which emphasizes the importance of balancing academic inquiry with the practical implementation of learning.

At our university, we aim to train not only people with specialized knowledge and skills, but also people who are truly reliable professionals. Through practical education and research initiatives in collaboration with the local community, we aim to enhance the ability to contribute and advance people and the community towards the realization of a healthy and independent society.

■ Faculty of Pharmacy

■ Faculty of Applied Life Sciences

■ Faculty of Medical Technology

■ Faculty of Nursing

■ Graduate School of Pharmacy

■ Graduate School of Applied Life Sciences

We will evolve in the spring of 2027.

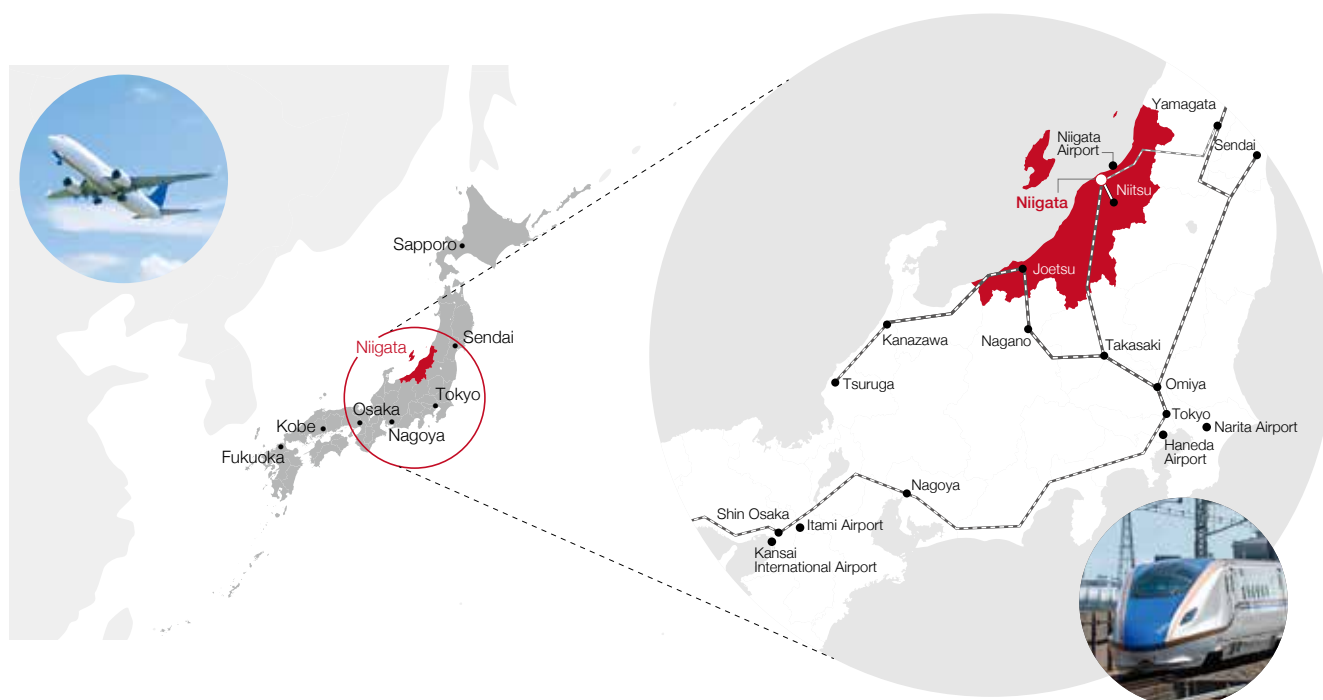
In the spring of 2027, to mark the school's 50th anniversary, Niigata University of Pharmacy and Medical and Life Sciences will evolve into **“Niigata University of Science”**, responding to the needs of society while retaining its founding spirit. We cultivate core regional talent through a "practical integrated" education that combines humanities and science.

NUPMLS History

1967	March	The Niigata Institute of Science and Technology obtained approval for initiation from Niigata prefecture.
1977	April	The Niigata University of Pharmacy established the Faculty of Pharmacy. (Schools of Pharmacy and Pharmaceutical Health Chemistry)
1991	April	Established Graduate School. Opened the master's course of Pharmacy.
1995	April	Opened the doctoral course of Pharmacy.
1999	September	Agreement for collaboration signed with the Capital Medical University in China.
2002	April	Established Niitsu campus. Established the Faculty of Applied Life Sciences.
	August	A sister-school partnership signed with the Massachusetts College of Pharmacy and Health Sciences, USA.
2006	April	Opened the master's course of applied life sciences.
		Changed the system of the Faculty of Pharmacy to 6-year course.
		Completely relocated the Faculty of Pharmacy to Niitsu campus.
2009	April	Opened the graduate school. (late Doctoral course of applied life sciences)
2010	April	Opened the graduate school.
		(Master's course of applied life sciences, pharmaceutical Science course)
2011	May	A sister-school partnership signed with the Changchun University of Chinese Medicine, China.
2012	April	Graduate school establishment (Department doctoral course of pharmaceutical research).
2013	October	Agreement for collaboration signed with the State University of New York, Fredonia (US).
2015	April	Opened the graduate school. (Master's course of applied life sciences, pharmaceutical Science course) Established Faculty of Applied Life Sciences Department of Life Sciences Business.
		September Agreement for collaboration signed with University of California (US).
		April Opened a new campus Niitsu Station Campus East.
	April	Agreement for collaboration signed with the University of Nantes (France).
2017	September	Agreement for collaboration signed with Western Sydney University (Australia).
2018	January	Agreement for collaboration signed with Chungnam National University (Korea).
2018	February	Agreement for collaboration signed with Rangsit University (Thailand).
2019	June	The agreement of the cooperation with Austrian Pharmaceutical Industry Association.
	June	Agreement for collaboration signed with The University of Vienna (Austria).
	July	Agreement for collaboration signed with Joetsu University of Education.
2020	January	Agreement for collaboration signed with Niigata University.
	March	Concluded the comprehensive partnership agreement with Niigata City Akiha Ward.
	March	The agreement about the education and research with National Institute of Advanced Industrial Science and Technology (AIST).
2021	September	Agreement for collaboration signed with Manila Central University (Philippines).
2023	April	Established the Faculty of Medical Technology.
		Established the Faculty of Nursing.

About Niigata

With a population of over 760,000 the city of Niigata city is the largest port on the coast of the Japan Sea, and the capital of Niigata prefecture, a region famous for rice, sake, seafood, and flowers. NUPMLS has established laboratories to study these industries and collaborate with local companies. We are helping develop the community by contributing to a thriving local food culture.



Airport

Niigata Airport is located about six kilometers north of central Niigata. The airport serves both international and domestic destinations. As of October 2025, domestic destinations available comprise Osaka(Itami), Nagoya, Sapporo, Sendai, Kobe, Fukuoka and Okinawa destinations are Seoul (South Korea), Shanghai (China), Taipei(Taiwan).

Train

From Tokyo, take the Japan Railways (JR) Joetsu Shinkansen super-express to Niigata Station (89minutes). Change trains at Takasaki Station for the Hokuriku Shinkansen line.

Bus

Long-distance buses service Niigata from Tokyo. Niigata also has bus service to Sendai, Nagoya.



Historical Monuments

Since the 17th century, the city of Niigata developed into one of the biggest port towns along the Japan Sea. Many merchants travelled to and from the town, resulting in wealth and a unique culture. Historical monuments maintaining this Edo-period atmosphere still remain.

Rich Food Culture

With fertile soil, Niigata boasts the largest area of rice paddies in Japan, producing the koshihikari variety, a premium rice known throughout the world. Sake (rice wine), rice confectionery, health food are produced using Niigata's agricultural products. Niigata practices sustainable farming in order to conserve the natural environment.



Place of Interest



Niitsu Hodojima Shopping Center [Town 403]

Niitsu Hodojima Shopping Center is located within walking distance of NUPMLS. The shopping center carries food, medicine, books, rental DVDs, and other daily necessities.



Hana To Iseki No Furusato Koen (Flower and Monument Park)

This park boasts a botanical garden, an art museum, and a monument. Experience Niigata's local culture through plants, history, and art, surrounded by an expansive natural environment.



Niitsu Station

This JR station links three separate train lines. The surrounding area is home to many shops and restaurants.



Como Town Niitsu

Como Town Niitsu is accessible by bicycle from NUPMLS. This shopping center includes the fast fashion store UNIQLO, a shoe shop, an electronics retail store, a grocery store, a soba (buck wheat noodles) shop, an udon shop (wheat noodles), and more.

Faculty of Applied Life Sciences



Applied life sciences are a major driving force for the SDGs.

Hiroaki Takaku, Ph. D.
Dean of the Faculty of Applied Life Sciences

The "Life science", which leads to a wide range of industrial fields such as food, agriculture, medicine, health, environment, and education, is indispensable academic for modern society. Especially, it is essential for achieving the "Sustainable Development Goals (SDGs)." Twenty years have passed since the founding of the Faculty of Applied Life Sciences, and it has grown into a faculty that can strongly promote the SDGs. This faculty belongs to the Faculty of Agriculture and consists of two departments, the Department of Applied Life Sciences and the Department of Life Science Business. The former is a department where students learn new manufacturing technology (bioscience) of "Life science", and the latter is a department where they learn how to create new businesses (bio-business) using those technologies. Our faculty has a program that allows students to take courses across disciplines. The experience and confidence gained from "learning social implementation from manufacturing technology to business" will undoubtedly be a great strength in tackling social issues that are becoming more diverse and complex. Another strength of our faculty is that we have faculty members who, given 10 different potentials, can develop them in 10 different pedagogies. By all means, let your abilities bloom at our faculty.



Faculty of Applied Life Sciences Department of Applied Life Sciences

The Department of Applied Life Sciences develops students for technical professions in research, engineering, and education, teaching them the essentials of biological phenomena on a molecular level across the fields of biotechnology, environmental science and food science.



Faculty of Applied Life Sciences Department of Life Sciences Business

The Department of Life Sciences Business develops students for technical professions that require expert planning, development, and business skills. Students are taught the fundamentals of technology and materials in food science, agricultural science, and other life sciences. They are also taught to apply economic and business theories to agricultural practices.



Faculty of Applied Life Sciences

Department of Applied Life Sciences

Curriculum Policy

The Department of Applied Life Sciences develops technical professionals who will master essentials in biotechnology, environmental science, food science and science education. Students will use their knowledge to help solve societal problems.

2

A foundation in information literacy provide students skills to use information and comprehend ideas scientifically by using mathematical properties.

4

Students study proactively through flipped classrooms, small group discussions, and debates using IoT and traditional methods.

6

Volunteer work, fieldwork, and practical studies gives students social skills, communication skills, and problem-solving skills.

1

Students will receive a liberal arts education comprising languages, sciences, and the humanities. Students will also be instructed on topics to provide local and global perspectives, developing humanism, ethics, and other basic skills necessary to thrive in society.

3

Subjects within each major (biotechnology, environmental science, food science, and science education) allow students to comprehend a broad range of topics through applied techniques, from basic theories in life science, technical skills and other fields.

5

Practical work enables students to grasp the essentials, think logically and express their thoughts.

7

Students are assigned graduation work to gain problem solving skills, using their accumulated knowledge and pursuing tasks on their own.

Curriculums

Analytical Food Science

Experiment in Food Analysis

Fermentation and Brewing

Functional Food Study

Structural Biology and Protein Engineering

Admission policy

Desired Students

The Department of Applied Life Sciences welcomes students who wish to contribute to society by using their skills and knowledge in the life sciences, biotechnology, environmental science, and food science. We also welcome students aiming to teach at educational institutions, including high school and junior high school.

Faculty of Applied Life Sciences Department of Life Sciences Business

Curriculum

The Department of Life Sciences Business cultivates technical professionals who excel in planning, development, and business. Students will attain a basic knowledge of technology and life sciences, including food science and agricultural science. Students will also use economics and business theories, applying them to agricultural approaches.

1

A multidisciplinary approach integrating science and the humanities develops humanism, ethics, and other basic skills useful in society.

2

Students study liberal arts and languages in their freshman year, continuing on with basic subjects in their second year. In their third year, students begin studying technical subjects. They will conduct research in the laboratory, where they will gain independent problem-solving skills utilizing their accumulated knowledge. This graduate-level research is conducted in close communication with staff.

3

A foundation in information literacy provide students skills to use information and comprehend ideas scientifically by using mathematical properties.

4

Students study proactively through flipped classrooms, small group discussions, and debates using IoT and traditional methods.

5

Practical work enables students to grasp the essentials, think logically and express their thoughts.

6

Volunteer work, fieldwork, and practical studies gives students social skills, communication skills, and problem-solving skills.

Curriculums

Functional Food Business

Project Management

Basic Marketing

Theory of Business Management

Overview of Environmental Science

Admission Policy

Desired Students

Students who desire to work as technical professionals in food and agricultural science, including related work such as planning,



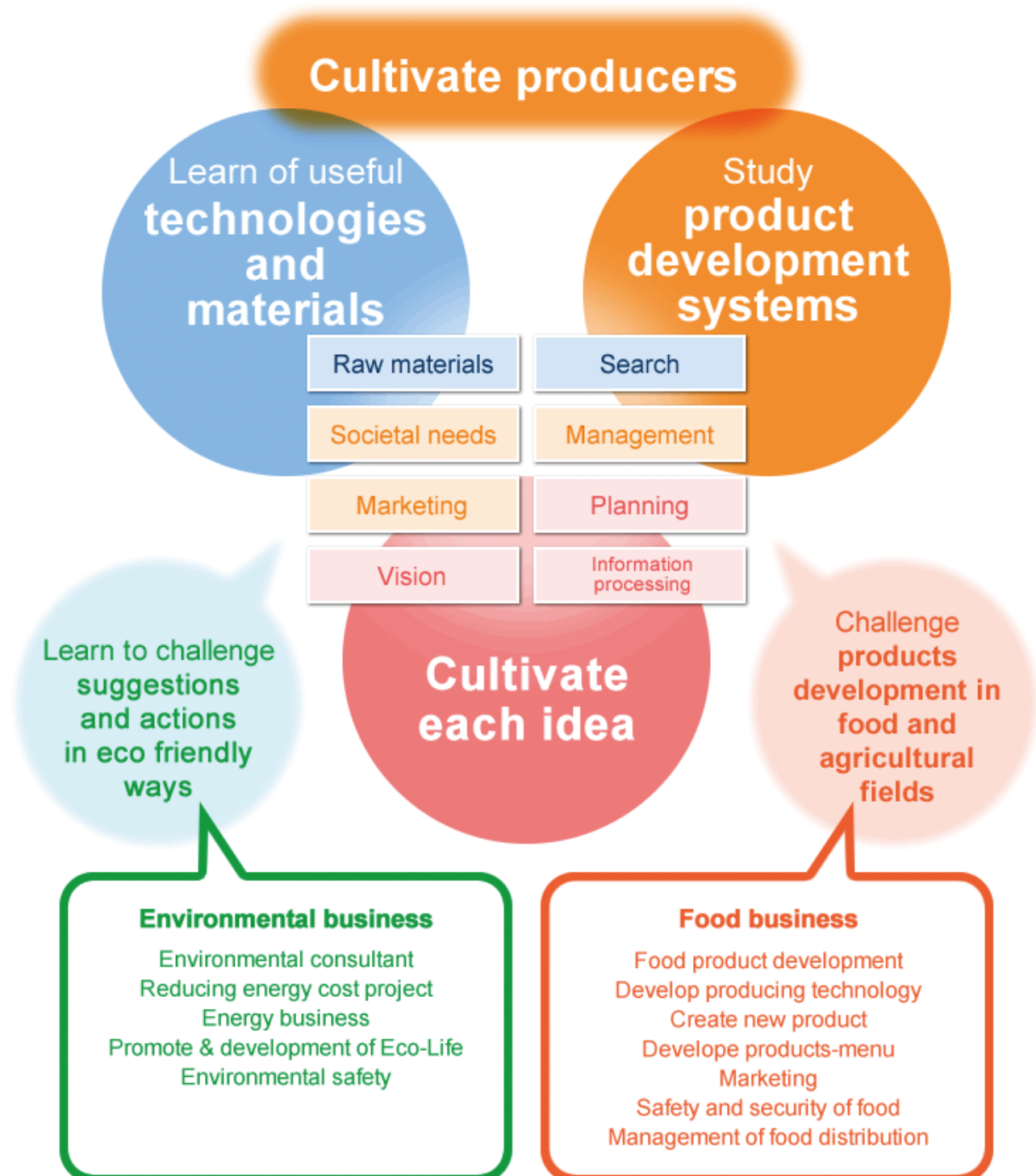
Concept of Department of Life Sciences Business

**Throughout the field of food, agriculture and environment,
we educate producers who can find and solve problems.**

Department of Innovative Life Sciences - students learn about the basic technology and production methods of "agriculture" and "environment", at the same time they learn the economics and business of agricultural field.

Therefore students can understand the "planning, management and business of these fields.

We provide professional resources, and students become the excellent producer.



Faculty of Pharmacy

Educational Objectives

We train future pharmacists.

Students will study advanced subjects in pharmaceutical sciences in order to contribute to the medical field.

They will develop a sense of ethics and personality suitable to working as a medical professional.

They will possess the intellectual curiosity to contribute to the development of medicine, improving the health and welfare of society.





Education in the fields of medicine, dentistry, and pharmaceuticals with anticipation for society beyond the year 2040

Takahiro KUBOTA, Ph. D.

Dean of the Faculty of Pharmacy

Our six-year pharmaceutical education program began 18 years ago. Children who were born that year have now reached their third year of high school. Along with a multitude of advancements in medical technology occurring during that time, pharmacist education has undergone an important period of transition that has now reached a critical juncture, akin to adulthood, and the future direction must be considered. Despite trials and errors, several individuals who have graduated from the six-year program are presently involved in active contributions to various local communities. Coincidentally, starting in the 2024 academic year, from the third cycle of the six-year program onwards, our pharmacy education program will progress to a revised version of the "Core Curriculum for Pharmacy Education" with the goal of aligning with medical and dental fields to standardize the "fundamental qualities and abilities" required of healthcare professionals. Reflecting on the necessity of six years of study, we must strive to be effective educators and mentors who return to the basics in order to nurture our future human resources.

Admission Policy

The Faculty of Pharmacy expects students to possess the following traits.

01

Students will be eager and passionate about contributing to society as a medical professional.

02

Students will have basic academic skills in science, and an intellectual drive to learn advanced technical knowledge.

03

Students will have the communication skills and personality suitable for a medical professional.

Faculty of Pharmacy

Curriculum Policy

In order for students to gain the skills required to obtain a degree, we have created a curriculum under the following guidelines.

2

Offer subjects that incorporate the humanities in order to develop basic skills as medical professionals.

1

We have tailored curriculum across specific levels in studies ranging from basic pharmacy, sanitary pharmacy, medical pharmacy, and clinical pharmacy, based on our Core Curricula of Pharmacy Education Model.

3

Offer technical subjects in pharmacy in order to understand various medicines and their appropriate application.

4

Offer general subjects in order to proactively harness science in a clinical way.

5

Offer subjects that nurture problem solving abilities.

6

Offer practical subjects to cultivate personal skills that will contribute to sustainable social welfare.

7

Offer liberal arts subjects to develop a breadth of knowledge, which is crucial in cultivating personal skills.

Curriculums

Seminar in Elemental Chemistry

Physical Pharmaceutics

Prescription Analysis

Current Medical Technologies

Advanced Pharmacology

Faculty of Pharmacy Laboratories

Pharmaceutical Chemistry

Prof. Takumichi SUGIHARA, Ph.D.

We conduct studies to explore the new principles of organic and inorganic chemistry on the theme "create new drugs in a super efficient manner" and to understand drugs that work on the human body.

Pharmacognosy

Prof. Hiroyuki Fuchino, Ph.D.

We are studying the diversity of crude drug constituents.
Since crude drugs are natural resources, their constituents are diverse and cannot be evaluated based on a single constituent. For this reason, we are investigating quality evaluation methods that use multivariate analysis.

Bio-analytical Chemistry

Prof. Kohichi KAWAHARA, Ph.D.

Our studies to development high sensitive and selective determination methods for bio-markers, and apply to patients plasma and for the evaluation to find a new mechanism of polyphenols.

Physical Chemistry

Prof. Kennosuke HOSHINA, Ph.D.

Our research interests are investigation of novel photo-induced chemical reactions and their application to analytical techniques by using lasers and computational chemistry.

Biopharmaceutics

Prof. Takahiro KUBOTA, Ph.D.
Assist. Prof. Yutaro MOTOI, Ph.D.

For Individual Differences of Drug Susceptibility
1. Search for genetic polymorphism
2. Affect susceptibility by gene mutation
3. Development of reagents capable of detecting genetic differences conveniently and rapidly and clinical application

Functional Morphology

Assoc. Prof. Takeo IWATA Ph.D.

We study the mechanisms of developing calcinosis and cancer treatment by new tumor suppressor genes, and the development research of anatomical models for the education of functional morphology in pharmacy.

Social Pharmacy

Prof. Yoshiko TOMINAGA, Ph.D., M.B.A.

Our research methodology, not dependent on laboratory-work, is interdisciplinary approach by applying various findings from social psychology, behavioral science, etc. to the pharmacy field.

Biochemistry

Prof. Akihiko KOMURO, Ph.D.
Assoc. Prof. Masahiko MIYAMOTO, Ph.D.

Research in the Komuro laboratory focuses on innate immunity underlying recognition of viral RNAs and functional interaction between type-I interferon signaling and RNA interference (RNAi) in mammalian cells. We also investigate protein-based anti-fungal drugs.

Department of Pharmacology

Prof. Takehiko MAEDA, Ph.D.
Assist. Prof. Takuya HASEGAWA, Ph.D.

We study the morphogenesis of chronic pain by focusing on the inflammatory agents (green) that are generated by the interaction between immune cells (red) and adipose cells (blue).

Hygienic chemistry

Prof. Toshiyuki SAKAMAKI, Ph.D.
Assoc. Prof. Eriko TOMITSUKA, Ph.D.
Assist. Prof. Koji SATO, Ph.D.

We study the genes and substances that fundamentally contribute to pathogenesis based on pharmaceutical knowledge with an aim to clarify the detailed pathogenic mechanisms of adult-onset diseases with a focus on cancer.

Microbiology

Assoc. Prof. Masahiro FUKUHARA, Ph.D.
Assoc. Prof. Toshio YAMAGUCHI, Ph.D.

We explore the function of proteins that play an important role in the mechanism that maintain the homeostasis of the ionic environment of cells and analyze them using microbes as research materials.

Clinical Pharmacotherapy

Assoc.Prof. Junkichi KANDA, Ph.D.

We conduct basic studies and make clinical application of highly safe and effective timed drug therapy for bone disorders and digestive system cancers.

Clinical Pharmacy

Prof. Toshinari ASAKURA, Ph.D.
Prof. Shigeaki SAKAZUME, Ph.D.
Prof. Mikio SAITO, Ph.D.
Assoc. Prof. Manabu ABE, Ph.D.
Assoc. Prof. Hirokazu ISOBE, Ph.D.
Assoc. Prof. Daisuke NAGANO, Ph.D.
Assist. Prof. Shizuka MIYASHITA, Ph.D.
Assist. Prof. Takayoshi TAKENO, Ph.D.

We study in depth the themes that arise from clinical practice from various perspectives.

Pharmacy Education

Prof. Nahoko IIMURA, Ph.D.
Prof. Shinichi ASADA, Ph.D.
Prof. Masayuki ANDO, Ph.D.
Prof. Noriyuki TAKATSU, Ph.D.
Prof. Akiko TANABE, Ph.D.
Prof. Shinobu HONZAWA, Ph.D.
Assoc. Prof. Nobuyuki KAWAMURA, Ph.D.
Assist. Prof. Toshio OHNUKI, Ph.D.
Assist. Mutsuko SASAKI
Assist. Yumi SEKIGAWA

We provide "friendly and polite educational support and consultation support" tailored to each student, learning support for training high-quality pharmacists, and personalized guidance tailored to the actual situation of the student.

Faculty of Medical Technology



We learn knowledge and skills that can respond to advancing medical care.

Sadao Aoki, MD, Ph. D.

Dean of the Faculty of Medical Technology

Clinical testing is a fundamental field in medicine that provides objective information about diseases. Treatment is carried out based on the estimation of the causes of illnesses and reasons for physical and mental discomfort through appropriate examinations. Therefore, accurately selecting necessary tests and promptly and accurately providing results are the mission of clinical laboratory technicians, and it is a role to be played in team medicine. In our department, we cultivate clinical laboratory technicians with a new perspective who have a sense of awareness and responsibility as healthcare professionals. Clinical laboratory medicine is not a theoretical study but a practical one. With experienced faculty in clinical practice and instructors with advanced technology, we will implement an educational program where students can acquire knowledge and skills as clinical laboratory technicians while valuing communication with students.

Laboratories

Hematology Division Prof.Sadao AOKI, MD, Ph. D. Lecturer Takayoshi UCHIYAMA, Ph. D. Lecturer Masayuki ITO, Ph. D. Assist.Prof.Miho OHTA Assist.Prof.Takahiro YUMOTO	Division of Natural Products Pharmacology Prof.Takashi ICHIYANAGI, Ph. D.	Division of DNA Repair & Genome Integrity Prof.Mineaki SEKI, Ph. D.
Circulatory Physiology Division Prof.Akihiko TAJIMA, Ph. D.	Division of Clinical Infectious Diseases Prof.Masami TSUGITA, Ph. D. Assist.Motoya HIGUCHI	RNA Therapeutics Division Prof.Masayuki NASHIMOTO, Ph. D. Assist.Prof.Masayuki TAKAHASHI, Ph. D.
Division of Global Environment Parasitology Prof.Marcello.O.Sato, Ph. D.	Division of Anatomy and Histology Prof.Keisuke WATANABE, Ph. D. Lecturer Akina CHIBA, Ph. D.	Tumor Biology Division Assoc.Prof.Hidekazu IIOKA, Ph. D.
Division of Sports Medicine Assoc.Prof.Yasuko YOSHIDA, Ph. D.		



Faculty of Nursing



We teach nurses in the making who can support the health and the living of people.

Mieko Sadakata, Ph. D.

Dean of the Faculty of Nursing

With the establishment of a comprehensive community care system, the places where people are cured of their illnesses are shifting from medical institutions to their homes. The purposes of nursing are to maintain and promote the health of people, prevent illnesses, and provide quality care for sick people so that it will alleviate their physical suffering and emotional distress. Taking advantage of being a university with plural paramedical faculties, Faculty of Nursing aims to produce professionals who can provide high quality nursing care. Our curriculum is designed to produce professionals who can contribute to the development of nursing care. If you aspire to help others maintaining their health or recovering from illnesses, if you hope to learn nursing scientifically, or if you are interested in nursing and the health of people, please come to our faculty. We look forward to welcoming you.

Laboratories

Fundamental Nursing

Prof.Hajime TODA, Ph. D.
Prof.Keiko ISHIWATA, Ph. D.
Assoc. Prof.Hisako KAWASAKI
Assist.Prof.Naoko OHNO
Assist.Makoto INUBUSHI

Public Health Nursing

Prof.Mari NOHARA, Ph. D.
Assoc.Prof.Tomoko SAITO

Community Health and Home Care Nursing

Prof.Utako KOYAMA, Ph. D.
Lecturer.Kazuhiro MYOUJIN
Assist.Keisuke AOYAMA
Assist.Ayumi MATSUZAWA

Adult Nursing

Prof.Junko KOCHI, Ph. D.
Prof.Emiko HIRAYAMA
Assist.Prof.Kazuyo NISHIYAMA
Assist.Prof.Junko YAMAMOTO

Gerontological Nursing

Assoc. Prof.Sachiko NARISAWA, Ph. D.
Assoc. Prof.Yoshiko SAKAI, Ph. D.
Assist.Prof.Yuki HASHIMOTO

Child Health Nursing

Prof.Noriko NAKAGAKI, Ph. D.
Assoc. Prof.Makiko TSUBOKAWA, Ph. D.
Assist.Prof.Mari IKARASHI

Maternal Nursing

Prof.Mieko SADAKATA, Ph. D.
Assist. Prof.Maki MOROHASHI
Assist.Prof.Hiroko Broad
Assist.Prof.Keiko MIMATA

Mental Health Nursing

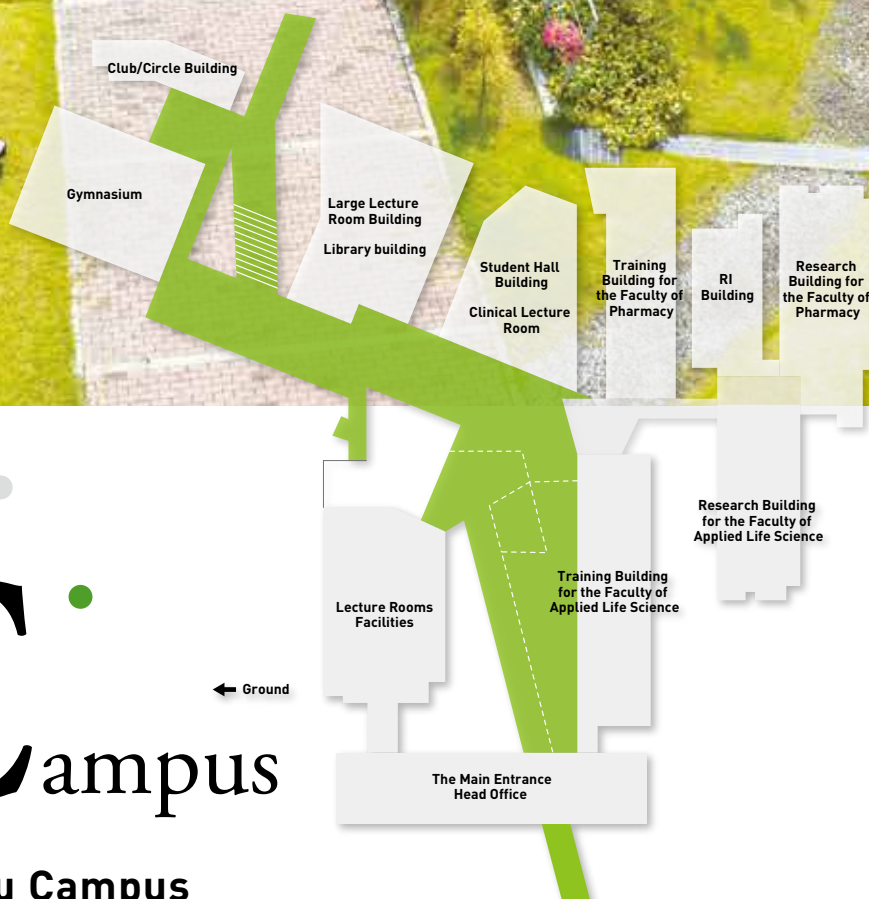
Prof.Shuichi KUSAKA, Ph. D.
Lecturer.Yumiko SEINO, Ph. D.
Assist.Hirotaka SHIBUYA





Main Campus

Niitsu Campus



Lecture Hall



Large Lecture Hall

Our largest lecture room with a capacity of 360 seats. It has a large retractable screen in the front and images on the screen can be projected onto monitors on the walls, so that those in the back row seats can see things in detail.

Research Facilities



Mass spectrometer



Single crystal automatic X-ray structure analyzer



Sterile preparation laboratory

Research facilities are fully equipped to maintain research infrastructure and enhance research functions.

Study Facilities



Study Room

The room is open to all students. It is open from 08:00 to 21:00, except on days when the university is closed.



Library

The library houses 52,000 or so specialist and liberal arts books. It is open from 09:00 to 21:30 on weekdays and 09:10 to 16:30 on Saturdays. You can also borrow books when you register with the library. There are 290 seats in the library.



Computer Lab

The room has 77 computers for student use. You can study using the internet anytime as long as it is within open hours. There are also several wireless LAN access points in the university.

Medicinal Plant Garden



Medicinal Plant Garden

The approximately 3,000 square meter garden has an administration building (130m²) and greenhouse (150m²), and about 300 types of medicinal plants are grown. We also have the Gozu Garden (13,000m²) in Agano City about 20km from the university where about 250 types of medicinal and wild plants are maintained in a forest close to nature.

Sports Facilities



Gymnasium

Besides university events, physical education classes and extracurricular activities (clubs), it is used for a variety of purposes. It provides a place for students to build strength and refresh and is has a training room equipped with fitness equipment, changing rooms and shower rooms.



Sports Ground & Tennis Court

The multipurpose ground and tennis courts near the student parking lot are used for ballgames and club activities.

Graduate School of Applied Life Sciences

Graduate School of Applied Life Sciences

Master's Program

Applied Life Sciences Course

Pharmaceutical Science Course

Doctoral(Ph.D.)Program

Master's Program Applied Life Sciences Course

Research Fields (Name of Research Laboratory)	Supervising Professor		Research Overview
	Job Title/Degree	Name	
Analytical Food Sciences (Analytical Food Sciences)	Professor, Doctor of Pharmacy	Shinji Sato	We are involved in the development and functional assessment of functional foods used in the prevention of metabolic syndrome and other lifestyle diseases.
Functional Food Sciences (Functional Food Sciences)	Professor, Doctor (Agricultural Science)	Hitoshi Matsumoto	We conduct research into the efficacy of the raw materials in functional foods, and functional mechanisms of polyphenol, bifidus bacillus, oligo-saccharide, and other functional foods.
Food Chemistry (Food Chemistry)	Associate Professor, Doctor (Science)	Yuri Nomi	We conduct applied research into identifying mechanisms of composition change from processing and storing food, and into resolving food-related social issues.
Food Safety (Food Safety)	Associate Professor, Doctor (Science)	Soichiro Nishiyama	We conduct research into preventing food poisoning. We study infection control and environmental responses to norovirus, botulism, and other food poisoning-related disease pathogens. We promote the adoption and uptake of HACCP in enterprises.
Food and Fermentation Technologies (Food and Fermentation Technologies)	Professor, Doctor (Agricultural Science)	Toru Shigematsu	We study the application of high pressure and microbial functions aimed at establishing environmentally-friendly food processing technologies and environmental conservation technologies that strike a balance between safety and economic feasibility.
Environmental Microbiology (Environmental Microbiology)	Associate Professor, Doctor (Engineering)	Akinori Iguchi	We investigate the functions of important microbial communities found in the natural environment, animal intestines, and waste water treatment processes. We study the effective use of environmental microorganisms that contribute to the realization of a sustainable society.
Applied Microbiology (Applied Microbiology, Genetic Engineering)	Professor, Doctor (Agricultural Science)	Hiroaki Takaku	We conduct research on the production of high performance produce at low cost with a low energy consumption by modifying the function of matter production in microorganisms (smart cells) through the use of information science in the hope of solving issues related to the depletion of resources and global warming.
Molecular Microbiology (Molecular Microbiology)	Associate Professor, Doctor (Agricultural Science)	Harutake Yamazaki	We study life span control mechanisms modeled on yeast. We look at ways to improve fermentation productivity for yeast by extending its life span. We conduct research on anticancer drugs that target the resistance to nutrient starvation in cancer cells.
Animal Cell Engineering (Animal Cell Engineering)	Professor, Doctor (Science)	Shinichi Ichikawa	We conduct research into cell death caused by oxidative stress and other forms of cell stress. We study the physiological function of sphingolipids. We investigate neurological function through genetic modification. We research fatty liver suppressing activity.
Plant Genomics (Plant Cell Engineering)	Associate Professor, Doctor (Agricultural Science)	Jotaro Aii	We investigate the mechanism behind plant reproduction, and the emergence of mutations and useful traits, and conduct research into the development of next-generation plants that use genome data to contribute to the development of healthy crops that are resilient in the face of climate change.
Green Chemistry (Environmental Organic Chemistry)	Professor, Doctor (Engineering) Associate Professor, Doctor (Science)	Yutaka Nakamura Masaru Kojima	We conduct research into the efficient synthesis of natural physiologically active products derived from sugars and other renewable resources.
Biomolecular Chemistry (Biomolecular Chemistry)	Associate Professor, Doctor (Science)	Tatsuo Miyazaki	We conduct research on the design and synthesis of new functional molecules with carbohydrates, steroids, and other biomolecules as the basic structure.
Environmental Engineering (Environmental Engineering)	Professor, Doctor (Engineering) Associate Professor, Doctor (Applied Life Sciences)	Tomohiro Kose Masai Ohno	We study the development of methods for measuring chemical substances, and their application in the understanding of environmental dynamics. We research the development of cyclical use techniques and new treatment processes for waste materials to contribute to the development of a sustainable society.
Molecular Science (Chemistry)	Professor, Doctor (Science)	Yoshifusa Arai	We conduct research into novel environmentally-friendly solid state reactions that do not rely on organic solvents, and useful materials found in plants and animals.

Master's Program
Pharmaceutical Sciences Course

Course	Field	Supervising Professor		Research Overview
		Job Title/Degree	Name	
Organic Drug Discovery	Organic Pharmaceutical Chemistry	Professor, Doctor of Pharmacy	Takumichi Sugihara	We conduct research into highly efficient molecular transformation reactions. We are involved in the development of novel gas-fixation reactions. We conduct synthetic studies into drugs based on new concepts.
	Pharmacognosy	Professor, Doctor (Pharmacy)	Hiroyuki Fuchino	Development of quality evaluation methods for crude drugs with the diversity of their ingredients in mind and search for new useful ingredients.
Biological Science	Biochemistry	Professor, Doctor (Pharmacy) Associate Professor, Doctor (Pharmacy)	Akihiko Komuro Masahiko Miyamoto	We investigate the molecular mechanisms of action in natural antiviral immunity, and conduct research into the interaction between viruses and host factors.
	Hygienic chemistry	Professor, Doctor (Pharmacy) Associate Professor, Doctor (Pharmacy), Doctor (Health Sciences) Associate Professor, Doctor (Medicine)	Toshiyuki Sakamaki Eriko Tomitsuka Koji Sato	We conduct basic research into drug development targeting energy metabolism. We study the pharmacokinetics of biological components and medicinal toxicants. We analyze gene functions in relation to the proliferation control of cancer cells.
	Microbiology	Associate Professor, Doctor (Pharmacy) Associate Professor, Doctor (Science)	Masahiro Fukuhara Toshio Yamaguchi	We study bacterial growth in various environmental conditions, and perform a genetic analysis of drug resistant clinical isolates.
Medical Science	Analytical pharmaceutical chemistry	Professor, Doctor (Pharmacy)	Kohichi Kawahara	We perform analytical chemical research on ligand-receptor interactions.
	Physical chemistry in pharmaceuticals	Professor, Doctor (Science)	Kennosuke Hoshina	We investigate the mechanisms of novel chemical reactions based on photophysical chemistry and quantum chemical calculations, evaluating the effect of physical stimuli in a broad sense on physical properties of pharmaceuticals and the reactions of a living body, in addition to applied research into analytical methods.
	Pharmaceutics	Professor, Doctor (Pharmacy)	Takahiro Kubota	We investigate pharmacokinetics in captive wild animals.
	Functional Morphology	Associate Professor, Doctor (Science)	Takeo Iwata	We study the mechanism of pathogenesis in endocrine and metabolic diseases, and related complications.
	Social Pharmacy	Professor, Doctor (Pharmaceutical Science)	Yoshiko Tominaga	We study the occupational ability of pharmacists and inter-occupational coordination. We investigate ways to encourage behavioral change in patients. We look at lifestyle disease prevention at pharmacies.
	Pharmacology	Professor, Doctor (Pharmacy)	Takehiko Maeda	We study pharmacometric techniques and targeted molecules in pharmacotherapy.
	Clinical Pharmacy	Professor, Doctor (Pharmacy) Professor, Doctor (Pharmacy) Associate Professor, Doctor (Pharmacy) Associate Professor, Doctor (Pharmacy)	Toshinari Asakura Mikio Saito Manabu Abe Junkichi Kanda	We study the proper use of antidiabetic drugs and medical devices. We conduct clinical research on adverse drug reactions. We conduct research on malignant tumors and hematologic disorders. We perform clinical analyses of drug hypersensitivity. We study the pathogenesis of drug-induced osteoporosis. We study the side effects of anticancer drugs and their underlying mechanisms. We conduct research on the proper use of antimicrobial agents.

Doctoral(Ph. D.) Program

Research Fields (Name of Research Laboratory)	Supervising Professor		Research Overview
	Job Title/Degree	Name	
Analytical Food Sciences (Analytical Food Sciences)	Professor, Doctor of Pharmacy	Shinji Sato	We are involved in the development and functional assessment of functional foods used in the prevention of metabolic syndrome and other lifestyle diseases.
Functional Food Sciences (Functional Food Sciences)	Professor, Doctor (Agricultural Science)	Hitoshi Matsumoto	We conduct research into the efficacy of the raw materials in functional foods, and functional mechanisms of polyphenol, bifidus bacillus, oligosaccharide, and other functional foods.
Food and Fermentation Technologies (Food and Fermentation Technologies)	Professor, Doctor (Agricultural Science)	Toru Shigematsu	We study the application of high pressure and microbial functions aimed at establishing environmentally-friendly food processing technologies and environmental conservation technologies that strike a balance between safety and economic feasibility.
Animal Cell Engineering (Animal Cell Engineering)	Professor, Doctor (Science)	Shinichi Ichikawa	We conduct research into cell death caused by oxidative stress and other forms of cell stress. We study the physiological function of sphingolipids. We investigate neurological function through genetic modification. We research fatty liver suppressing activity.
Plant Genomics (Plant Cell Engineering)	Professor, Doctor (Agricultural Science)	Hiroaki Takaku	We investigate the mechanism behind plant reproduction, and the emergence of mutations and useful traits, and conduct research into the development of next-generation plants that use genome data to contribute to the development of crops that are resilient in the face of climate change and crops that contribute to healthy living.
Applied Microbiology (Applied Microbiology, Genetic Engineering)	Professor, Doctor (Agricultural Science)	Hiroaki Takaku	We conduct research on the production of high performance products at low cost with a low energy consumption by modifying the function of matter production in microorganisms (smart cells) through the use of information science in the hope of solving issues related to the depletion of resources and global warming.
Green Chemistry (Environmental Organic Chemistry)	Professor, Doctor (Engineering)	Yutaka Nakamura	We conduct research into the efficient synthesis of natural physiologically active products derived from sugars and other renewable resources.
Environmental Engineering (Environmental Engineering)	Professor, Doctor (Engineering)	Tomohiro Kose	We study the development of methods for measuring chemical substances, and their application in the understanding of environmental dynamics. We research the development of cyclical use techniques for waste materials to contribute to the development of a sustainable society.
Molecular Science (Chemistry)	Professor, Doctor (Science)	Yoshifusa Arai	We conduct research into novel environmentally-friendly solid state reactions that do not rely on organic solvents, and useful materials found in plants and animals.

Graduate School of Pharmacy

Curriculums

Special Lecture in Medicinal Chemistry

Special Lecture in Clinical Pharmacokinetics

Special Lecture in Health Science

Special Lecture in Pharmacotherapy for Cancer

Doctoral(Ph. D.) Program

Pharmacy education

Field	Research Laboratory	Supervising Professor		Research Overview
		Job Title/Degree	Name	
Pharmaceutical Chemistry	Pharmaceutical chemistry	Professor, Doctor of Pharmacy	Takumichi Sugihara	We study the development of highly efficient molecular transformation reactions and novel gas immobilization reactions applicable in drug synthesis, and research drug synthesis based on new concepts.
Pharmaceutical Materials Science	Pharmacognosy	Professor, Doctor (Pharmacy)	Hiroyuki Fuchino	Development of quality evaluation methods for crude drugs with the diversity of their ingredients in mind and search for new useful ingredients.
Physical Chemistry	Physical chemistry in pharmaceuticals	Professor, Doctor (Science)	Kenosuke Hoshina	We investigate the mechanisms of novel chemical reactions based on photophysical chemistry and quantum chemical calculations, evaluating the effect of physical stimuli in a broad sense on physical properties of pharmaceuticals and the reactions of a living body, in addition to applied research into analytical methods.

Medical pharmacy

Field	Research Laboratory	Supervising Professor		Research Overview
		Job Title/Degree	Name	
Pharmacology	Functional Morphology	Associate Professor, Doctor (Science)	Takeo Iwata	We study the mechanism of pathogenesis in endocrine and metabolic diseases, and related complications.
	Pharmacognosy	Professor, Doctor (Pharmacy)	Takehiko Maeda	We perform basic research analyzing the medicinal action in opioid analgesics and other drugs used to treat chronic pain, conduct exploratory research for new mechanisms of action and new drugs to treat chronic pain, and to establish new pain treatments that avoid adverse drug reactions.
Pathophysiology	Biochemistry	Professor, Doctor (Pharmacy)	Akihiko Komuro	We perform basic research in an aim to uncover the molecular mechanisms of action in natural antiviral immunity, and the interaction between viruses and host factors.
	Microbiology	Associate Professor, Doctor (Pharmacy) Associate Professor, Doctor (Science)	Masahiro Fukuhara Toshio Yamaguchi	We study bacterial growth in various environmental conditions, and perform a genetic analysis of drug resistant clinical isolates.
Health sciences	Hygienic chemistry	Professor, Doctor (Pharmacy) Associate Professor, Doctor (Pharmacy), Doctor (Health Sciences)	Toshiyuki Sakamaki Eriko Tomitsuka	We perform analysis of molecular biological characterization in cancer cell growth and metastasis control.

Clinical pharmacotherapy

Field	Research Laboratory	Supervising Professor		Research Overview
		Job Title/Degree	Name	
Clinical pharmacy	Analytical pharmaceutical chemistry	Professor, Doctor (Pharmacy)	Kohichi Kawahara	We perform analytical chemical research on ligand-receptor interactions and study sub-species of microglia.
Clinical pharmacokinetics	Biopharmaceutics	Professor, Doctor (Pharmacy)	Takahiro Kubota	We conduct exploratory research for mutant genes causing changes in drug sensitivity among individuals, and analyze the impact these genes have on the phenotype. We also work on the development of reagents capable of detecting genetic differences simply and quickly for use in clinical applications.
Clinical pharmacotherapy	Clinical pharmacotherapy	Associate Professor, Doctor (Pharmacy)	Junkichi Kanda	We conduct basic research into clarifying the condition of metabolic bone diseases and drug therapy that accounts for chronopharmacology.
Clinical pharmaceuticals	Clinical pharmacy	Professor, Doctor (Pharmacy) Professor, Doctor (Pharmacy) Associate Professor, Doctor (Medicine)	Toshinari Asakura Mikio Saito Daisuke Nagano	We conduct research into the appropriate use of antidiabetic drugs and devices, and the development of drugs and therapeutic aids aimed at improving the patient's QOL. We conduct clinical analysis into drug hypersensitivity and other adverse reactions, and risk factors for avoiding or alleviating the occurrence of adverse drug reactions.

A Day in the Life of International Student



Sandra Constantin

Faculty of Pharmacy - Department of Pharmacy

From Romania

My name is Sandra Constantin and I am an assistant professor Ph.D. at Pharmacy Faculty Iasi, Romania. I wanted to study new methods in organic synthesis, develop my knowledge in the pharmaceutical chemistry field, to improve my Curriculum Vitae and, not least, to fulfill my dream: to visit Japan and discover the Japanese life and culture. So far, I've done four internships in France during and after my Ph.D. studies, which helped me a lot to develop my personal life and my career and motivated me to want more experiences like these.

I am living in Niitsu, a beautiful and welcoming house. I like this city very much. It is very calm, quiet, with a lot of green spaces which give me a relaxed state of mind. Niigata is also a beautiful city and the local people are great. I've enjoyed a lot walking along the Shinano River, visiting the touristic places and shopping centers and trying out the local traditional food.

I encourage all students and teenagers to take advantage of their age and to choose to study abroad either for an internship or for a longer period of time. It is a great opportunity and a new experience especially here in Japan, a strong developed country with a very different and unique culture. Studying abroad is a great opportunity to improve your knowledge, develop your foreign language skills and, more importantly, your communication skills.

Likewise, you can experience new educational systems and different approaches to education and learn about other cultures, their customs and cuisines. All in all, studying abroad means a lot of great moments and experiences which for sure you will never forget.



Study

I enjoy the life because, even if there are language barriers with my colleagues, I feel that I'm a member of the team.

Daily Life

Go to NUPMLS

I go to NUPMLS every day by its school bus around 8 a.m. I arrive at NUPMLS within 15 minutes from my apartment.





Evening

Usually I go back to my apartment with the last bus from NUPMLS.



Message to applicants

I enjoy the life in Japan. For sure, I will never regret this experience. I will remember all these great moments in Japan.

Message from a Current Student

From Thailand to Niigata University of Pharmacy and Medical and Life Sciences

Chunhaphinyokul Benyapa(Graduate school of Applied life Sciences)

With the goal of becoming a scientist who can change the world, she decided to study abroad at Niigata University of Pharmacy and Medical and Life Sciences from Thailand.



Please tell us about your hometown and what motivated you to enroll in the graduate school at this university.

As an undergraduate student at Chiang Mai University, Thailand, I harbored an aspiration of pursuing my studies abroad. Eventually, that auspicious day materialized when I encountered a distinguished representative of NUPMLS, during the Japan Education Fare in Chiang Mai. During our discourse, we graciously exchanged contact information. Subsequently, I embarked upon an exploration of NUPMLS, unearthing intriguing and compelling insights that served to convince me to apply. Upon my enrollment at NUPMLS, I have been immensely pleased to discover the amiable nature of the staff and my companions here. I express my heartfelt gratitude to all of them for their benevolent support.

What kind of research are you conducting? Could you share some insights about your life in the research lab?

Presently, my research revolves around delving into the intricate molecular mechanisms governing anti-viral innate immune recognition, particularly focusing on RIG-I-like receptors. Throughout the experimentation phase of this ongoing research project, I have derived immense satisfaction from every facet of the learning process, albeit occasionally encountering stress that paradoxically serves as a source of challenge. Notably, I have made significant strides in enhancing my laboratory skills while concurrently assimilating valuable life lessons. Despite these achievements, I remain cognizant of several areas that warrant further improvement and refinement.

How do you find life in Niigata? I heard you have a community from your home country.

Residing in Niigata is like embarking upon a journey to a novel realm of opportunities. I live in an apartment in close to both the university and shopping malls, making it convenient for me. One of my cherished pastimes involves cycling around this picturesque region, where I can take fresh air while reveling in the resplendent beauty of nature, thereby feeling a sense of peace. Over the past two years, I have had the opportunity of encountering Thai companions from diverse universities, unexpected occurrence that has broadened my social horizons and given me remarkable experiences. I am thankful to them for reminding me that I am not alone.

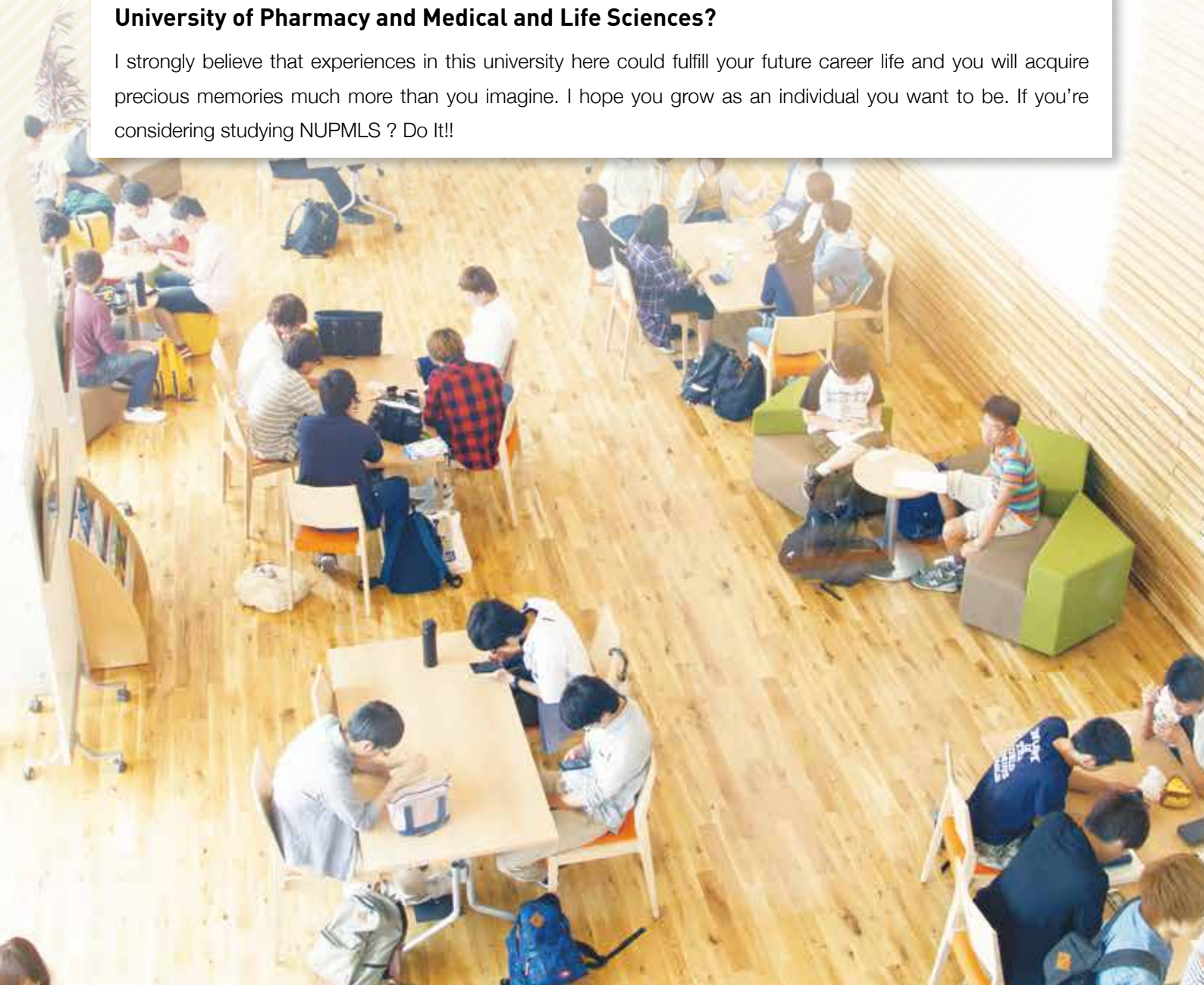
Could you tell us about your vision for the future after obtaining your Ph.D.?

After being graduated, I am going to start my new journey again. I would like to continue my research career as a post-doctoral fellow in other country. Eventually, having fortified my career as a post-doctoral fellow, I shall return to my native country, Thailand. I firmly believe that the wealth of experiences and knowledge acquired abroad will redound to the benefit of my homeland.

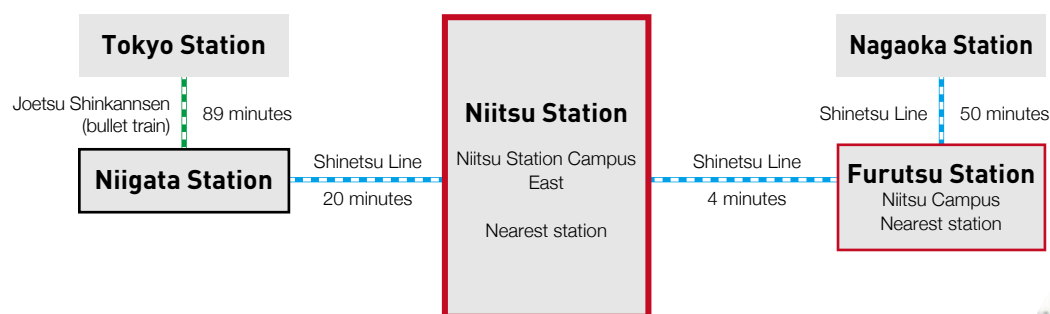


Lastly, could you please leave a message for those who are interested in Niigata University of Pharmacy and Medical and Life Sciences?

I strongly believe that experiences in this university here could fulfill your future career life and you will acquire precious memories much more than you imagine. I hope you grow as an individual you want to be. If you're considering studying NUPMLS ? Do It!!





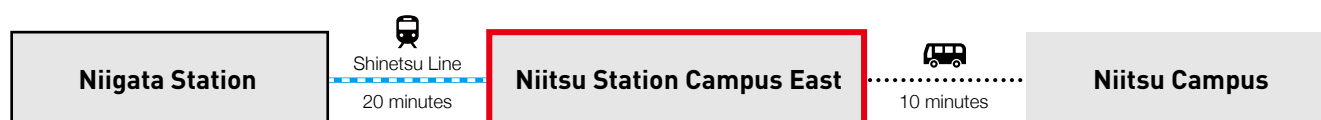


School bus

It takes for ten minutes by school bus from Niitsu Campus to Niitsu Station Campus East.



By JR train and school bus, it takes about 30 minutes to go to "Niitsu Campus" from JR Niigata Station.





Niigata University of
Pharmacy and
Medical and Life Sciences

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