Application Guidebook for Students (Special Recommendation Entrance Examination)

Graduate School of Pharmaceutical Sciences (Master's Program) [Major in Medicinal and Life Sciences] Nagoya City University (NCU) for Academic Year 2023 (October Enrollment)

*Special recommendation ... Exemption from written examination system based on self-recommendation To admit students with strong personal qualities widely, this system intends to evaluate the aptitude of applicants by reviewing the statement of the reasons for application, English score, interview test and by other methods instead of the written examination for general selection. The applicants are required to make a firm commitment to enroll after they pass the examination.

Those who have graduated or will graduate from a foreign university (without Japanese nationality) are eligible to take this examination.

*Consult with the faculty member in charge of the field of your major beforehand about research planning, etc.

1. Prescribed enrollments

A small number of students.

*The number of students enrolled in "Graduate Course of International Program to Conjoin Brain Science and Society" (referring to P.5) includes the number of prescribed enrollments.

2. Selection of department to apply for

Applicants are allowed to select departments up to three to apply for.

3. Eligibility for applicants

Eligible applicants are foreign nationals who satisfy one of the following qualifications;

- (1) A person who has completed a 16-year course of schooling outside Japan or who is expected to complete that course by the end of September 2023.
- (2) A person who has completed a 16-year course of schooling program of the country outside Japan that is provided by correspondence education in Japan, or who is expected to complete such a program by September 2023.
- (3) A person who has completed or is expected to complete to be awarded a bachelor's degree by September, 2023 *via* 3-year or more year's program in the university or other tertiary institution in a foreign country assured by the government or authorized organization in the original country, or specified by the Mistry of Education, Culture, Sports Science and Technology of Japan. The program includes the comprehensive education study provided by the foreign university in tertiary institution in Japan, or the program provided by the foreign educational institution established in Japan based on the educational system of the original country. In such cases, the institution should be specified by the Ministry of Education, Culture, Sports, Science and Technology of Japan.
- (4) A person who has completed a 15-year course of schooling outside Japan, and who have acquired the prescribed credits with excellent academic results that is approved by the Graduate School of Pharmaceutical Sciences of NCU.
- (5) A person who has academic ability equivalent to or higher than those who have graduated from university by the individual achievement test conducted by the Graduate School of Pharmaceutical Sciences, NCU, and who will be 22-year-old or more at the end of September 2023.

Notice: Any applicants who fall under (4) or (5) of "3. Eligibility of applicants are preliminarily evaluated before the application. Under the consultation with the faculty member of the specialized department (major subject), send the preliminary examination-application documents by registered post express mail to the address shown below. Please mark "Application documents for preliminary examination to Master's program of the Graduate School of Pharmaceutical Sciences, NCU" in red in the lower left section of the front of the envelope. The mail must be arrived within the period from May 30(Tue) to June 1(Thu), 2023[must be received. Postmark date is not taken into account]. The mail sent from outside Japan will not be accepted. If applying from outside Japan, be sure to entrust your application procedure to a proxy residing in Japan. Notifications from NCU will be addressed to your proxy.

The preliminary examination-application documents:

- (1) Application for preliminary examination (Use the prescribed form of NCU)
- (2) Curriculum Vitae (Use the prescribed form of NCU)
- (3) Reasons for Application
- (4) Research Plan (When prepared in a language other than Japanese, attach a Japanese translation in any form)
- (5) Japanese language proficiency
- (6) Reply envelope (Clearly indicate your receiving address and put stamps for 344 yen to the envelope.)
- (7) ② and ③ described in the following 5. Application documents

4. Period of application

June 14 (Wed)—June 20 (Tue), 2023 [must be received]

Must be sent by post. Delivery in person is not accepted.

Fill in the required items on the cover which is designated by the University, and paste the cover on the envelope(240mm×332mm) prepared by yourself. Enclose the application documents in the envelope above, and send them by registered express mail.

No Application forms are received in- person at the office or outside the designated period of application **(Postmark date is not taken into account)**. When your application documents, etc. are accepted, you will receive your examination admission card and instructions for examination from us later.

If you do not receive them by June 29 (Thu), please be sure to contact Student Affairs Division, Administration Office of NCU.

Application documents must be sent by post to

Nagoya City University Student Affairs Division, Administration Office of NCU 1, Kawasumi, Mizuho-cho, Mizuho-ku, Nagoya, Aichi 467-8601, Japan

Application by post from a foreign country will not be accepted. <u>If applying from a foreign country, be sure to entrust your application procedure to a proxy residing in Japan.</u> Notifications from NCU will be addressed to your proxy.

5. Application documents, etc. (Fill out in Japanese)

Γ	Documents, etc.	Description		
2	Application for admission/ Photo Identification card/ Examination Admission card/ Curriculum Vitae (reverse side of application form) Transcript	[Use the prescribed form of NCU] Affix your photograph to the application form. The photograph should be taken with you directly facing the camera It should show your upper body and bare head without background. It should be in color, measuring 4 cm high x 3 cm wide, and taken within the last 3 months before the application. Enter the address at which you are (or a proxy is) certain to be contactable. If you have work experience, provide the details in "Career." If you have received school education in a foreign country, fill in your school education in full from elementary education (equivalent to elementary school) to higher education (equivalent to university education). Transcript must be prepared by the president of the university that you are enrolled in or have graduated from. When it is difficult to obtain a reissued transcript, a photocopy can be received. Its authenticity will be verified during your entrance formalities. (If a photocopy is submitted, be sure to present the original when you take the admission procedure.) If your academic transcript is prepared in a foreign language, prepare a Japanese translation in any form, and attach it to the original transcript. Do not write the Japanese translation directly on the original transcript.		
3	Diploma (graduation letter), certificate of completion (expected	Your diploma should be prepared by the president of the university you are enrolled in or have graduated from. If you have completed (are expected to complete) the graduate school, submit its certificate of completion (expected completion), too, together with the university diploma, etc.		

	1	Transit transition in the state of the state
4	Official score of	If it is difficult to obtain a reissued transcript, a photocopy can be received. Its authenticity will be verified during your entrance formalities. If you submit an application under (1) of "3. Eligibility for applicants," submit a document certifying your eligibility. If your certificate is unable to be reissued, submission of a photocopy is acceptable. If a photocopy is submitted, be sure to present the original when you take the admission procedure. Be sure to prepare a Japanese translation in any form, and attach it to the original certificate. Do not write the Japanese translation directly on the original certificate. Submit the original (photocopy is not acceptable) of your official score of TOEIC
	TOEIC, etc. *Photocopy is not acceptable	(Listening & Reading TEST), TOEFL-iBT, or IELTS (academic module) (Official Score for TOEIC (Listening & Reading TEST), Test Taker Score Report for TOEFL, Test Report Form for IELTS) that you took after April 1, 2021. * For the official score of TOEFL (iBT, PBT), request the Education Testing Service (ETS) in the US to send it to NCU (Nagoya City University - Entrance Examination Section DI code: B212) to arrive not later than the period of application. The official score reached here before the period of application is acceptable. If the application documents were not submitted, your official score will not be returned. *If you submit the score of TOEIC taken after April 2023, please contact the Admission Office, Student Affairs Division (e-mail:shingaku@sec.nagoya-cu.ac.jp) before sending your application documents. *Any score reports downloaded at the TOEIC website are not available. *Your official score will not be returned. *Your official score is converted by the math formula prescribed by the Graduate School of Pharmaceutical Sciences to determine your score of the foreign language (English) for use as reference information to determine your admission. If you submit more than one score, the score that is found to be higher after conversion will be adopted. Applicants are desired to have English ability equivalent to or higher than the scores shown below. Note, however, that these scores are not an application requirement. TOEIC: 650, TOEFL-iBT: 69, IELTS:4.5
5	Reasons for Application	[Use the prescribed form of NCU] Fill out the form in Japanese or English.
6	Pledge of Admission	[Use the prescribed form of NCU]
7	Envelope for results notification (Recommendation and special recommendation applicants only)	Sized 120×235 mm with clear indication of your return address, and put stamps for 344 yen to the envelope.
8	Letter of permission for taking examination	[Use the prescribed form of NCU] If you are in employment and wish to be admitted while remaining employed without retirement or temporary retirement, submit examination permission issued by your superior.
9	Letter of Acceptance for Examination	[Use the prescribed form of NCU] *Consult with the faculty member in charge of the field of your major beforehand about research planning, etc. before submitting your application. *Submit only your first choice of field.
10	Examination fee (30,344 yen)	When paying the examination fee, fill in the transfer request form (prescribed form of NCU) with the required information, and hold it out with 30,344yen (Examination fee 30,000 yen + Express mail fee to send the admission card 344 yen) to a bank or other finance institution for transfer. Japan Post Bank or Yucho Bank does not accept this transfer. Do not use ATM, etc.; use only a teller for transfer. The bank transfer fee is payable by the applicant. Submit the "Examination Fee Payment Certificate (Slip B)" received from the bank, etc., together with the other application documents. (Do not submit the "Receipt of

		Transfer Amount (and Transfer Fee) (Slip A)," which should be retained by you.)			
		* The examination fee is not refundable in principle. (Refer to (4) of "12. Cautions."			
(1)	Mailing label	[Use the prescribed form of NCU]			
		The mailing label will be used to notify you of the admission decision.			
12	Residence	To be submitted if you are a foreign national and eligible for residence in Japan.			
	certificate	Residence certificate that does not contain the Social Security and Tax Number.			
		If your visa status is for short-term residence, submit a photocopy of the Japan entry			
		visa stamped in your passport			
		If you are residing in a foreign country, submit a photocopy of your passport.			
13	Envelope to	Fill in the required items on the cover which is designated by the University, and paste			
	submit the	the cover on the envelope (240mm×332mm) prepared by yourself. You can download			
	application	the cover from the website of the University. Enclose the application documents,			
	documents	envelope and send them by registered express mail			
		< The University Website >			
		https://www.nagoya-cu.ac.jp/admissions/graduate/phar/index.html			

6. Prior consultation with the applicants with disability

A parson with a disability and needs extra care on having an entrance examination and studying has to notify Student Affairs Division.

7. Date and method of selection for admission

OWe may conduct a test using the web service depending on the circumstances of Coronavirus Disease (COVID-19).

(1) Date, time, subject, etc.

Examination date	Examination time	Examination subject
July 8 (Sat), 2023	10 : 00 ~	Interview

Review

- •Review will be made with overall consideration of the Statement of Reasons for Application, official scores of TOEIC, etc, interview test, etc. and the academic transcript.
- The interview will be conducted online.
- •You will receive instructions for the examination together with your examination admission card.

8. Announcement of application results

July 18 (Tue), 2023 at 10:00

The announcement is posted on the bulletin board at the entrance of Graduate School of Pharmaceutical Sciences, NCU, and also communicated to each applicant.

- *We will send important documents that date of procedure and necessary documents are described to the successful examinees, so make sure to check them.
- *If you do not receive them after 1 week from the announcement, please contact Student Affairs Division, Administration Office of NCU.

9. Admission procedure

(1) Date of procedure

Early August, 2023

You will be notified of the specific date together with the announcement of application results.

(2) Details of procedure

The details of the procedure will be notified to you together with the announcement of application results.

(3) Fees payable during the admission procedure

a. Admission fee Nagoya City residents, etc. 232,000 yen Others 332,000 yen

b. Disaster and accident insurance for student education and research 1,750 yer

- Note 1: The admission fee should be paid through a financial institution before commencing the admission procedure. The paid admission fee is not refundable.
- Note 2: "Nagoya City residents, etc." means (1) enrolled students or (2) their spouse or first-degree family member who can certify by referring to their resident card that they have continuously had an address within Nagoya City at least one year from the date before the date of admission.

Annual amount 535,800 yen (1st semester and 2nd semester: 267,900 yen each)

- Note 1: After admission, tuition is to be paid twice a year (for the 1st semester and the 2nd semester) (automatic withdrawal from your account).
- Note 2: If the tuition is revised during your enrollment, the revised tuition will apply.
- Note 3: Graduate School of Pharmaceutical Sciences may charge additional cost without any advance notification.

11. Scholarship system

The scholarship loan plan of the Japan Student Services Organization (JASSO) is available to graduate students. Students wishing to use the plan will be referred following a review of academic achievement, research ability, etc., to determine eligibility.

12. Cautions

- (1) Applications lacking necessary documents will not be accepted.
- (2) Applicants found to have made false statements in their applications may have their admission revoked even after enrollment.
- (3) Application documents, etc. will not be returned.
- (4) The examination fee is not refundable in principle. However, in any of the following cases, the paid examination fee is refunded. Confirm this on the NCU website.
 - 1. The examination fee (excluding bank transfer fee) was transferred twice.
 - 2. The application documents were not submitted after the examination fee was transferred (or the application was not accepted).
- (5) If your return address changes, please notify the Office of new address immediately.
- (6) As a rule, double enrollment is prohibited

13. Graduate Course of International Program to Conjoin Brain Science and Society

- (1) Along with the adoption by MEXT, this program invites the designated number of international students from the priority areas designated by MEXT members into the 2-year Master program or the 3-year Doctoral program, and thorough the lectures, seminars and other academic activities held in English, educate them to become young researchers who have acquired the global level of brain and mental health area.
- (2) A limited number of applicants will be admitted.
- (3) Students of this program will be determined through the internal selection from those who have passed the Master Program entrance exam.

14. Treatment of your personal information

NCU treats your personal information in accordance with the Act on the Protection of Personal Information of Nagoya City.

- (1) Use of your personal information
 - a. Your name, address and other personal information given in application documents, etc. are used for our operations of selection for admission (e.g., application registration, selection, application result announcement, admission procedure).
 - b. Your personal information used for selection for admission (e.g., academic transcript) may be used as reference material for investigative research and academic research to improve future selection for admission and graduate education. (Investigative research results are announced in such a way that

^{*}Students of this program is required to simultaneously satisfy the requirements of both their major in the graduate school and this program.

- individuals cannot be identified.)
- c. After you are admitted, your personal information is used for operations related to educational affairs (e.g., enrollment management, schooling guidance), student support (e.g., health control, tuition waiver, application for scholarship, job placement support), and tuition collection.
- (2) Entrustment of operations to external business operators
 The operations of (1) above may be entrusted to some external business operators under an agreement with them for proper treatment of personal information.

15. Admission policy

Admission policy of Graduate School of Nagoya City University

Nagoya City University (NCU) aims to be a university in which all citizens feel pride and affinity. In graduate education, based on our recognition that research guidance for graduate students is a challenge in offering research activities. We aim to cultivate researchers and professionals who can gain advanced expertise and an interdisciplinary thinking.

With this philosophy and aim, the graduate school is widely looking for individuals who possess advanced expertise and an eagerness and aptitude for activity both within Japan and abroad, in addition to diverse skills and work experience.

Admission policy of Graduate School of Pharmaceutical Sciences

(1) «Philosophy, Purpose, Educational Goals»

The Graduate School of Pharmaceutical Sciences aims to foster researchers and technical experts with creative and outstanding ability who can execute innovative research in pharmaceutical life sciences, drug discovery science, environmental and health science, and clinical pharmaceutical sciences, by acquiring a broad knowledge and deep expertise about pharmaceutical sciences. In addition, we also aim to develop human resources with prominent ability to play an active part in education, public administration, and medical front with wide view and high ethics. In order to cultivate these diverse and highly specialized human resources, we welcome following students.

- (2) «Profile of students sought »
- Students who have strong motivation for study and research
- Students who are interested in a wide range of research fields and strive to expand their perspectives
- Students who are motivated to acquire their problem-solving ability in the process of research
- From the point of view of developing diverse human resources, students who have different academic backgrounds (undergraduates from other than Pharmaceutical Sciences and Pharmacy) and are willing to perform researches in pharmaceutical sciences
- From the point of view of developing international human resources, students from overseas who want to perform researches in pharmaceutical sciences
- (3) «Contents and level of required knowledge, abilities and skills»
 - The ability of material science and life sciences (equivalent to those who have graduated from a university) and language skill required to acquire the knowledge and skills necessary for research activity.
- (4) «Selection method»

Students who have the academic and language skills in material science and life science required for their choice of education and research field will be selected by the following methods.

[Special Recommendations]

To admit students with strong personal qualities widely, this system intends to evaluate the aptitude of applicants by reviewing the statement of the reasons for application, English score academic transcript, interview test and by other methods instead of the written examination for general selection.

Language skills required for research in graduate school will be evaluated by official scores of foreign language examinations such as TOEIC. Academic skills in materials science and life science will be evaluated by an academic transcript.

Evaluate the applicant's motivation, aptitude, and personality for research through the statement of reasons for application and an interview.

Notifications from NCU in case of emergency

In case of emergency (e.g., occurrence of disaster) or if changes are required to the contents of this application guidebook, students will be notified those changes through the website of NCU. Particularly as the examination day draws near, pay close attention to the website of NCU. Applicants may also be directly contacted. In your application documents, therefore, be sure to provide contact details where you can always be reached.

NCU Website https://www.nagoya-cu.ac.jp/

A Ban on smoking in the premises

NCU has banned smoking in the premises. All students are requested to observe this policy, and asked to further cooperate by not smoking on roads and alleys around NCU.

The entrance exam date and method may change depending on the circumstances of Coronavirus Disease (COVID-19).

Students will be notified those changes through the website of NCU «Notice regarding entrance examination for graduate school».



NCU Website https://www.nagoya-cu.ac.jp/admissions/graduate/information/index.html

Outline of Graduate School

Department	Research interests					
Organic and Medicinal Chemistry	1. Molecular design, synthesis, and evaluation of biologically functional and useful compounds					
	2. Development of the methods for exploration and analysis for bioactive substances based on chemical approach					
	3. Bioorganic chemistry for reactive oxygen species and nitric oxide					
	4. Development of the compounds for controlling cellular properties based on					
	photochemistry and organic chemistry					
Bioorganic-Inorganic Chemistry	 Chemistry of enzyme and enzyme models Development of a functional molecule useful for clarification of biotic functions 					
Chemistry	3. Rational design, synthesis and activity evaluation of drug lead compounds					
	4. Development of functional molecules based on a new concept					
Synthetic Organic	1. Studies on the synthesis of biologically active natural products					
Chemistry	2. Studies toward drug discovery based on biologically active natural products3. Development of efficient methods for construction of molecular architectures					
	4. Development of highly selective synthetic reactions					
Synthetic	Development of multicomponent domino reaction by using a transition metal					
Supramolecular	catalyst, and its application to drug synthesis					
Chemistry	2. Logical study of transition metal-catalyzed reaction by ab initio molecular orbital study calculation					
Cellular Biophysics	1. Analysis of allergic responses					
	Artificial cell Mechanism of neural development					
	4. Mechanism of exocytosis					
Physical Chemistry of	1. Study of the ordering of soft matter (colloid, gel, polymer, micelle)					
Colloid and Polymer	2. Formation of gel immobilized colloid crystal, and its application to materials					
	3. Computer simulation of the ordering process of soft matter4. Application of colloid system to drug field					
Structural Biology and	Elucidation of the functional mechanisms of biomolecules by integrative structural					
Biomolecular	biology					
Engineering	2. Structural glycobiology for elucidating pathological mechanisms and drug					
	development 3. Exploration of dynamical ordering of biomolecular systems for creation of integrated					
	functions					
Molecular Biology	1. Organelle biology					
	2. Pathology for neurological disorders					
	3. Epigenetics for metabolism4. Intracellular signals for cancer immunity					
Drug Delivery and	Development of a targeting drug delivery system (DDS) for brain cancer and other					
Nano Pharmaceutics	various cancer					
	2. Design of a DDS for nano-micro lung-administered particles					
	3. Formulation design of poorly soluble and absorbable drugs4. Development of a DDS for nano particle carriers					
Multilevel	Elucidation of biomolecular networks using omics analysis					
Biofunctional	2. Structural and functional analysis of glycans and drug discovery					
Analytics	3. Research on biosynthetic systems of glycoproteins					
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Pharmacognosy	1. Medical pharmaceutical study of crude drugs, Japanese traditional kampo medicines					
[Kampo Medicinal	and natural materials					
Therapeutics]	2. Usability assessment of traditional medicines aiming at the application to various diseases, and their action mechanism					
	3. Searching of biofunctional materials made from natural materials including plants or					
	microbes and their application to drug discovery					
	4. Genetic control for secondary metabolic function in plants and microbes, and					
	production of useful compounds 5. Analysis of the diverseness of medicinal resource plants based on genome					
	information, and its application to crude drug assessment					

Department	Research interests				
Molecular and Cellular	1. Cytokine signaling and immune responses				
Health Science	2. Studies on the pathogenesis of chronic inflammatory diseases				
	Evaluation of novel drug delivery system using microorganisms Honorganisms, including Mycobacterium and				
	Staphylococcus spp.				
Biological Chemistry	Molecular mechanism of translation and mRNA decay				
	2. Posttranscriptional regulation of gene expression				
	3. Antiviral defense mediated by exogenous mRNA decay				
	4. Pathological mechanism of cancer, neurodegenerative diseases resulting from RNA				
	aberrations 5. Dayslanment of mDNA based dwar for cone thereny				
Molecular and Cellular	Development of mRNA-based drug for gene therapy Physiological functions of ion channels				
Pharmacology	2. Pathophysiological roles of ion channels in cardiovascular diseases				
[Biomolecular	3. Electrophysiology and pharmacology in smooth muscle cells, cardiomyocytes,				
Pharmacology]	neurons, chondrocytes, and immunocytes				
	4. Drug development in the ion channel research field				
Biomedical Science	1. Molecular mechanism of neuronal network formation				
[Molecular	2. Molecular mechanism of higher brain function (e.g., memory, reading, feeling)				
Neuroscience]	3. Development of novel methods of diagnosis, prevention, and treatment of neurodevelopmental disorders				
	4. RNA metabolism and its relation with neurodevelopmental disorders				
Biopharmaceutics	Functions and regulation mechanisms of transporters involved in drug disposition				
[Biopharmaceutics and	2. Roles of transporters in drug disposition				
Clinical	3. Physiological and pathophysiological roles of transporters				
Pharmacokinetics]	4. Methodologies of evaluation and prediction of drug disposition				
Pathobiology	1. Neuroprotective effect and glial function				
[Pathobiology and	2. Microenvironment around cancer				
Pharmacotherapy in Pharmaceutical	3. Spontaneous regression and malignancy of neuroblastoma4. Early stage of arteriosclerosis				
Practice]	5. Bone disease and osteoclast disfunction				
Cell Signaling	1. Clarification of cancer biological properties and development of novel molecular				
[Stress Response	targeted drugs				
Cellular Biology]	2. Clarification of the mechanisms of TGF β signal and cancer malignant progressions				
	3. Clarification of cellular stress, including endoplasmic reticulum stress, and the				
	pathogenesis of lifestyle-related diseases 4. Understanding metabolic reprogramming and its application to disease prevention				
	5. Effects of stress on drug and toxicant metabolism				
Neuropharmacology	1. Analysis of the molecular mechanism for sleep-wake regulation using model animals				
[Clinical	2. Pharmacotherapeutics and clinical studies in sleep medicine				
Neuropharmaology]	3. Neuropharmacological study of chronic pain and palliative care				
	4. Pharmacological approach to alleviate the higher brain dysfunction in metabolic				
	disease 5. Understanding of the mechanism of sensory abnormality caused by nerve injury				
Regulatory Science	Exploring study of biomarkers related to the idiosyncratic drug adverse reaction				
[Medicinal Safety	2. Study of pathogenic mechanism for the idiosyncratic drug adverse reaction				
Science]	3. Pharmacoepidemiologic study by analyzing the big medical data				
_	4. Study of ethnic factors in the drug response among East Asia populations				
	5. Analysis of clinical study design				
Clinical Pharmacy	1. Differentiation of human iPS cells into intestinal epithelia cells and brain				
[Community Pharmacy	microvascular endothelial cells, and its application to the study of a new drug				
Management Individual Differences	development 2. Clarification of the mechanism of congenital dysbolism by using disease iPS cells,				
and Personalized	and its application to diagnosis and treatment				
Medicine]	3. Clarification of the mechanism of cerebrovascular disorder due to diabetes, and				
	examination of medication				
	4. Scientific analysis of pharmacists' affairs, and training development for lifelong				
	learning				
	5. Research development of self-medication affairs utilizing drug stores				

Department	Research interests			
Hospital Pharmacy	1. Studies on risk factors of adverse drug event incidence, medical costs and medical			
[Laboratory of	systems for appropriate use of pharmaceuticals			
Hospital Pharmacy]	2. Studies on influence of pharmaceutical use on quality of life			
	3. Studies on construction of support and education resulting in behavioral modification			
	to appropriate pharmaceutical use and health promotion			

[Departments in Affiliate Graduate School]

Department	Research interests				
Oncology (Aichi Cancer Center Research Institute)	 Clarifying the roles of tumor microenvironment in cancer formation and progression Elucidating the molecular mechanisms of metastasis Unraveling the pathophysiology of cancer cachexia Study on the dysfunction of cellular signaling pathways in cancer 				
Experimental Gerontology (National Center for Geriatrics and Gerontology Research Institute)	To elucidate mechanisms underlying the pathogenesis of Alzheimer's disease To identify therapeutic targets to halt the progression of Alzheimer's disease To investigate roles of glial cells in neurodegenerative diseases				
Quality Assurance Science for Pharmaceuticals (National Institute of Health Sciences)	 Study on bioequivalence evaluation and quality management of generic drug products Study on formulation and process design of protein pharmaceuticals Studies on the quality control and quality assurance of regenerative/cellular therapy products Development of testing methods for the assessment of quality and safety of regenerative/cellular therapy products derived from human ES/iPS cells 				
Integrative Science for Dynamic Living Systems (National Institutes of Natural Sciences)	Systems biology on intracellular signal transduction Study on visualization and quantification of intracellular signal transduction with genetically encoded fluorescent proteins Development of molecular dynamics simulation method and its application to proteins Theoretical study on the formation mechanism of protein aggregates causing neurodegenerative diseases				
Regulatory Science for Evaluation of Pharmaceuticals and Medical Devices (Pharmaceuticals and Medical Devices Agency)	 Study of quality, efficacy and safety evaluation of pharmaceuticals Study of quality, efficacy and safety evaluation of medical devices Study of quality, efficacy and safety evaluation of regenerative medicine products 				
Molecular Profiling for Cancer Precision Therapy (Japanese Foundation for Cancer Research)	 Study on molecular mechanisms of drug resistance in cancer and therapeutic strategies to overcome the resistance Understanding the diversity of cancer and development of new therapeutic strategies Study on development of personalized cancer immunotherapy based on individuals' cancer genome information Molecular mechanisms of cancer metastasis and development of anti-cancer metastasis drug 				

List of Faculty Members, Graduate School of Pharmaceutical Sciences (Faculty of Pharmaceutical Sciences)

(As of May. 2023)

D	D 0	I		As of May. 2025)
Department	Professor	Associate prof.	Assistant	Research
			Professor	Assosiate
Community Pharmacy	Tamihide	Takahiro Iwao	Tadahiro Hashita,	
Management	Matsunaga, Tadashi		Eisei Hori	
Individual Differences	Suzuki			
and Personalized				
Medicine				
[Clinical Pharmacy]				
Laboratory of Hospital	Tomoya Tachi	Yuji Hotta	Keiko Nishide	(Clinical Assistant
Pharmacy		(concurrent)	(concurrent)	Professor)
[Hospital Pharmacy]				Akimasa Sanagawa
[1105pital I harmacy]				(concurrent)
				(concurrent)
Medicinal Safety	Masahiro Tohkin		Kaori Ambe,	Yukihieo Shibata
	Wasaiiio Tolikiii		Raom Amoc,	I ukilileo Silibata
Science				
[Regulatory Science]				
Kampo Medicinal	Toshiaki Makino	Kanichiro Ishiuchi	Kazuhiro Terasaka	
Therapeutics				
[Pharmacognosy]				
Biomolecular	Hisao		Yoshiaki Suzuki	Rubii Kondo
			i osinaki Suzuki	Kuuli Kundo
Pharmacology	Yamamura			
[Molecular and Cellular				
Pharmacology]				
Molecular	Mitsuharu Hattori	Takao Kohno		
Neuroscience	THE GIRL GIRL GIRL	Tunuo Itomio		
[Biomedical Science]				
Biopharmaceutics and	Hiroaki Yuasa		Tomoya Yasujima	Takahiro
Clinical				Yamashiro
Pharmacokinetics				
[Biopharmaceutics]				
Pathobiology and	Mineyoshi Aoyama			Hiromasa Aoki,
	Willicyosiii Aoyailia			Kohki Toriuchi
Pharmacotherapy in				Konki Toriuciii
Pharmaceutical Practice				
[Pathobiology]				
Stress Response	Hidetoshi Hayashi	Yasumichi Inoue	Chiharu Miyajima	
Cellular Biology			, ,	
[Cell Signaling]				
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Pharmacotherapeutics -	Kazuhiko Kume	Jun Tomita		
Palliative Care for				
Cancer Patients				
[Clinical				
Neuropharmaology]				
Organic and Medicinal	Hidehiko Nakagawa		Mitsuyasu	
	THOUING Nakagawa			
Chemistry			Kawaguchi	
			Naoya Ieda	
Bioorganic-Inorganic	Naoki Umezawa		Yosuke Hisamatsu	
Chemistry				
Synthetic Organic	Seiichi Nakamura		Kazutada Ikeuchi	
Chemistry				
Synthetic		Shin-ichi Ikeda		
Synthetic		Simi-iciii ikeda		
Supramolecular				
Chemistry				
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Department	Professor	Associate prof.	Assistant	Research	
			Professor	Assosiate	
Cellular Biophysics	Naohide Hirashima	Masahiko Tanaka		Ruriko Suzuki	
Physical Chemistry of	Jyunpei Yamanaka	Tohru Okuzono,			
Colloid and Polymer		Akiko Toyotama			
Structural Biology and	Koichi Kato		Maho Yagi		
Biomolecular	(specially appointed				
Engineering	professor)				
Molecular Biology	Michiko Shirane	Nakatsumi Hirokazu			
Drug Delivery and	Tetsuya Ozeki	Tatsuaki Tagami		Koki Ogawa	
Nano Pharmaceutics					
Multilevel		Hirokazu Yagi			
Biofunctional Analytics					
Molecular and Cellular	Shigeaki Hida	Saotomo Itoh		Isamu Ogawa	
Health Sciences					
Biological Chemistry	Shin-ichi Hoshino	Tsuyoshi Udagawa		Hiroto Inagaki	
Affiliated Research Institutes h Institutes					
Staff	Professor	Associate prof.	Assistant	Research	
		_	Professor	Assosiate	
Institute of Drug					
Discovery Science					

Affiliate Graduate School

Department	Professor	Associate prof.	Assistant Professor	Research Assosiate Assistant prof.
Oncology (Aichi Cancer Center Research Institute)	Masahiro Aoki (Guest Prof.) Chitose Oneyama (Guest Prof.)	Teruaki Fujishita (Guest Associate Prof.)		
Experimental Gerontology (National Center for Geriatrics and Gerontology Research Institute)	Koichi Iijima (Guest Prof.)	Michiko Sekiya (Guest Associate Prof.)		
Integrative Science for Dynamic Living Systems (National Institutes of Natural Sciences)	Kazuhiro Aoki (Guest Prof.)	Hisashi Okumura (Guest Associate Prof.)		
Quality Assurance Science for Pharmaceuticals (National Institute of Health Sciences)	Yoji Sato (Guest Prof.)	Satoshi Yasuda (Guest Associate Prof.)		
Regulatory Science for Evaluation of Pharmaceuticals and Medical Devices (Pharmaceuticals and Medical Devices Agency)	Tomoko Osawa (Guest Prof.)			
Molecular Profiling for Cancer Precision Therapy (Japanese Foundation for Cancer Research)	Ryohei Katayama, Reo Maruyama (Guest Prof.)	Kazuma Kiyotani (Guest Associate Prof.)		

^{[]:} Advanced lecture to be delivered in the master's course of the doctoral program