Admission Guide for International Students, 2024 (Doctoral Course)

The first examination : November 6, 2023

The second examination: January 29, 2024

Graduate School of Medicine, Nara Medical University 840 Shijo-cho, Kashihara, Nara 634-8521, Japan

Tel: +81-744-22-3051 Ext. 2374

The Details of admission requirements for Graduate School of Medicine (Doctoral Course), Nara Medical University

1.Description for specialized subjects.

Specialized Subjects

Specialized Subj Major Field	Field	Specialized Subjects				
	Social and	Epidemiology				
	Community	Public Health				
	Health	Legal Medicine				
	Science	Medicine Based Town				
		Biomacromolecules				
		Molecular and Cellular Dynamics				
		Phasing Biology				
		Cellular and Molecular Anatomy				
		Functional Morphology				
		Brain and Neurophysiology				
	Basic	Control Mechanics for Biological Function				
	science for	Biology of Aging				
	biological	Molecular Oncological Pathology				
	function and	Bioprotection and Regeneration Medicine				
	disease	Microbiology				
N 6 11 1		Immunology (*NM course)				
Medical Science		Signal Transduction in Pharmacology				
Science		Embryology				
		Advanced Medical Science of Thrombosis and Hemostasis				
		Applied Medical Science and Clinical Research				
		Cardiovascular System Research				
		Cardiovascular Medicine				
		Clinical and Pathological Nephrology				
		Respiratory Medicine				
		Gastroenterology, Endocrinology and Metabolism				
	Clinical	Diabetes and Endocrinology				
	medicine for	Clinical Neurology and Myology				
	organ and disease	Gastroenterological Surgery				
	control	Neurological Disorder Control				
		Circulatory and Respiratory Control Medicine				
		Musculoskeletal Reconstructive Surgery (*NM course)				
		Sports Medicine				
		Bioregulatory Medicine of female genital organ				

Major Field	Field	Specialized Subjects
		Ophthalmology and Vision Science
		Newborn Health and Development
		Child Health and Development
		Psychiatry and Behavioral Neuroscience
		Dermatology
		Medical Science for Pathologic and Functional Control of
		Urogenital Organs
		Prostate Brachytherapy
		Otolaryngology-Head and Neck Surgery
		Image-based Diagnosis and Minimal Invasive Therapy
		Radiation Oncology
	Clinical	Anesthesiology and Pain Medicine
Medical	medicine for	Clinical neuromonitoring
Science	Science organ and disease control	General Medicine and Clinical Pathophysiology
		Oral and Maxillofacial Surgery
	Control	Emergency Medical Science
		Diagnostic Pathology
		Medical Oncology
		Rehabilitation Medicine
		Clinical Laboratory Medicine
		Bloodstream Reconstructive Medicine
		Infectious Diseases
		Clinical and Translational Science
		Laboratory of Advanced Technology for Interventional Radiology
		Proton Beam Radiation Oncology
		Medical Sensing Technology

Note:

Applicants should directly ask inquiries, the details of research area or the number to be accepted, to the supervisors related with the subject you are interested in.

*NM course

Subjects related to research and lectures in University of Michigan including to study at University of Michigan in the doctoral course of our university based on Memorandum of Understanding for Academic and Scientific Cooperation Between the Regents of the University of Michigan on Behalf of its Medical School and Nara Medical University (December 13, 2018)

2. Requirements for admission

Applicants have been in the university for a certain period of time (more than 6 months for students by private expense) as research students of Nara Medical University and any of the following (1) to (4). i.e. they must have

- (1)Completed 18 years of education abroad (final courses must be medicine or dentistry). Those who is more than 24 years old, had less than 18 years of education abroad (final courses must be medicine or dentistry), and have studied more than approximately a year in any college, university, or national research institution as a research student or a researcher
- (2) Obtained Bachelor's Degree in medicine or dentistry as an international student in Japan
- (3) Obtained Master's Degree in graduate course of the other majors as an international student in Japan or those who recognized as possessing scholastic abilities equivalent mentioned above by graduate school of Medicine, Nara Medical University
- (4) Obtained Master's Degree in graduate course of the other majors abroad, or, those who recognized as possessing scholastic abilities equivalent mentioned above by graduate school of Medicine, Nara Medical University

Note:

The graduate school committee may give the permission to those who meet in any of the above to undergo the entrance examination.

3. Procedure for applying

Applicants need to submit documents described in (1) and (2) and pay examination fee described in (2)-(C) to Student Division.

Documents in (1) and (2) are provided in Japanese or English

- (1) Documents for Judgment of eligibility for examination permission
 - (a) Form for permission (use the form provided)
 - (b) Resume (use the form provided)
 - (c) Certificate of graduation or completion
 - (d) School transcript of the most recent academic course studied
 - (e) The Letter of recommendation: Enclosed and signed by the university president or a professor from the most recent academic course studied
 - (f) The letter of recommendation: Issued by the Japanese governmental organizations or overseas agencies of Foreign Affairs if the international student is supported by the Japanese government or those of foreign countries
 - (g) Certificate of identity (use the provided form)
 - (h) Copy of Passport or Residence card
 - (i) Address card (for the notice of your pass and fail)

Note:

If the certificate differs from the current family name, provide official documentation to prove

that the family name has been changed. (Extract of family register issued within three(3) months or similar documents)

- (2) Application for admission
 - (a) Form for application (use the form provided)
 - (b) Examination card and Photograph card (use the form provided)
 - (c) Examination fee: 30,000 yen Bank transfer(including by using a Japanese ATM) only.

Transfer the entrance examination fee (30,000 yen) to the following bank account via ATM or Internet banking.

[For Electronic Payment]

Beneficiary Name: Nara Medical University

Bank Name: Nanto Bank Branch Name: Kashihara Account Number: 0266177

Note 1: The reference number "GMS" and "Applicant's Name" must be entered in the

Applicant's Name of the transfer information. (e.g.) GMSTaroIida

Note 2: Applicants will need to pay a fee when you transfer money.

Note 3: The transfer must be made within the following duration.

The first examination October 10 - 13, 2023 The second examination January 9 - 12, 2024

Note 4: The certificate of bank transfer or other payment proof of the entrance examination fee will be attached to the Application Fee payment form. Please submit it with other documents.

4. Deadline for applying

The first examination

For the documents related to 3-(1) described above need to submit to Student Division

September 4 - 8, 2023

*Office hours: From 9:00 a.m. to 5:00 p.m. (except Japanese holiday)

If sent by mail, must arrive no later than 5:00 p.m. on September 8, 2023

For the documents related to 3-(2) described above need to submit to Student Division

October 10 - 13, 2023

*Office hours: From 9:00 a.m. to 5:00 p.m. (except Japanese holiday)

If sent by mail, must arrive no later than 5:00 p.m. on October 13, 2023

The second examination

For the documents related to 3-(1) described above need submit to Student Division

December 4 - 8, 2023

*Office hours: From 9:00 a.m. to 5:00 p.m.(except Japanese holiday)

If sent by mail, must arrive no later than 5:00 p.m., December 8, 2023

For the documents related to 3-(2) described above need to submit to Student Division

January 9 - 12, 2024

*Office hours: From 9:00 a.m. to 5:00 p.m. (except Japanese holiday) If sent by mail, must arrive no later than 5:00 p.m. on January 12, 2024

5. Any other inquiries

gakuseik@naramed-u.ac.jp

Student Division Graduate School of Medicine, Nara Medical University 840, Shijo-cho, Kashihara, Nara 634-8521 Japan

6. Selection method

Admission will be determined based on the results of written examinations in foreign language and in specialized subjects. Health certificate and transcript will be also required for consideration.

Examination

English and specialized subjects described below

The first examination

Examination date		Subjects		Location
	10:00 - 11:30 a.m.	English	Written test or oral answer test	To be notified on the day
November 6 2023	1:00 - 2:30 p.m.	Specialized subjects First choice	Oral answer test	To be notified on the day
	2:40 - 4:10 p.m.	Specialized subjects Second choice	orai answer test	

The second examination

Examination date		Subjects		Location
January 29 2024	10:00 - 11:30 a.m.	English	Written test or oral answer test	To be notified on the day

1:00 - 2:30 p.m.	Specialized subjects First choice	Oral answer test	To be notified
2:40 - 4:10 p.m.	Specialized subjects Second choice		on the day

Note:

- (a)Dictionaries including medical term dictionary can be used; however, electronic dictionaries and medical dictionary are not allowed to use
- (b)In case of oral examination in English is requested, schedule will be announced
- (c)International students will be able to take examination either Japanese or English
- (d)Examination for specialized subject will be performed by research instructors corresponding to the area specified

7. Result

For the result of the first examination: **December 12**, 2023 For the result of the second examination: **March 5**, 2024

The Result will be shown on the bulletin board in our school and on our website.

The letter notice also will be delivered to successful applicants by mail later.

8. Procedure for admission

More details will be announced after March, 2024.

Applicants who are granted admission will be required payment enrollment fee through any financial institutions using our statement which will be mailed later, then need to submit related documents described in (1) and (2) to Student Division.

- (1) Documents
 - (a) Pledge: signed by a guarantor (use the prescribed form)
 - (b) Photograph: 4cm long x 3cm width, front view from the chest up with no hat and no background taken within the current three months (show your name and the date of taken it on the reverse side)
 - (c)Certificate of Graduation: examinees who are expected graduation
 - (d)Notification of Residence: use the prescribed form
 - (e)Bank account transfer Request Form:: use the prescribed form
- (2) Enrollment fee: ¥282,000, required the receipt

9. Tuition

¥ 535,800 per a year: required payment in two semesters

(April, October)

Note:

Graduate School of Medicine, Nara Medical University would possibly revise tuition fee without any notification.

10. Others

- (1) In case request to receive application form by mail, please enclosed a return envelope, size 33cm x 24cm mentioned your address and postage stamp ¥250. (domestic in Japan)
- (2) In case of to dispatch application documents by mail, please do so by registered express and show "Admission application for the graduate school" with red ink on its envelope.
- (3)After completed entrance formalities, specialized subjects cannot be changed and documents and fee will not be returned for any reason.
- (4) The examination card for the first examination given at Student Division,

9:00 to 9:30a.m. on November 7, 2023

The examination card for the second examination given at Student Division,

9:00 to 9:30a.m. on January 29, 2024

(5)Inquiries will be accepted by e-mail only. (igakukenkyuka@naramed-u.ac.jp)

Field	Specialized Subject	Professor	Research Field
	Epidemiology	Saeki Keigo Obayashi Kenji	Our chrono-epidemiologic studies are derived from data at real-life situation of community-based cohort. At baseline, we simultaneously measure environment factors (temperature, light, and noise), behavioral factors (food intake, exercise, and bathing), biological rhythm (ambulatory blood pressure, physical activity, body temperature, melatonin secretion, and sleep/awake status), and we longitudinally follow the change of physical and cognitive function and incidence of cardiovascular disease and cancer. We are interested in the time of the exposure, and the time of outcome in the association between exposure and outcomes as follows: 1) Environment/behavior and biological rhythm • Temperature vs. blood pressure • Light vs. objective sleep, and nocturia • Light vs. melatonin secretion • Bathing and blood pressure • Breakfast skipping vs. obesity 2) Environment/behavior and disease • Light vs. obesity, dyslipidemia, diabetes, depression, carotid intima media thickness • Light/temperature vs. incidence of cardiovascular disease and cancer 3) Biological rhythm and disease • Melatonin secretion vs. depression, cognitive function, muscle strength, and chronic inflammation.
Social and Community Health Science	Public Health, Health Management and Policy	Imamura Tomoaki Noda Tatsuya Myojin Tomoya	 Evidence-Based Public Health Studies on: Epidemiology and establishing analytical systems using big data:

Field	Specialized Subject	Professor	Research Field
	Legal Medicine	Kasuda Shogo	Study on effect of ethanol on vascular function Study on relationship between vascular function and sudden death Study on effect of ethanol on sepsis Study on effect of ethanol on thromsosis
Social and Community Health Science	Medicine Based Town	Umeda Tomohiro	 Designing a concept for social hospital associated with medical knowledge and technology Evaluation systems of IoT-oriented environmental data and vital signs An administration model and policy toward making society where people live independently Healthcare management systems and its platforms Evaluation methods and analysis of BIC data from medical health data Healthcare index, and the prediction of illness risk Tools for rehabilitation and care management Locomotive syndrome and the extension of healthy life expectancy MBT creating innovation What is MBT? It stands for medicine based town. You can see a lot of system and architectures using medical knowledge/ wisdoms in this type of town. Medical knowledge/wisdoms come from many kinds of clinical doctors or scientists in medical university, and therefore it is huge. Using medical knowledge adds extra values on the towns. This concept would be novel for creating new types of town, creating new industry and stimulating local community. IoT: Internet of ThingsAbout IoT IoT stands for Internet of Things, indicating that any types of things are connected to IT-related apparatuses such as a mainly PC, a server and the printer
Basic science for biological function and disease	Biomacromolecules	Sakai Hiromi Yamamoto Keizo	Design and synthesis of artificial red cells and transfusion alternatives In vivo efficacy evaluation of artificial red cells New clinical application of artificial red cells Study on new micro-and nano-encapsulation Purification and chemical modification of biomacromolecules
		Matsuhira Takashi	6. X-ray crystallography and functional evaluation of proteins7. Study on new materials for biomedical application

Field	Specialized Subject	Professor	Research Field
	Molecular and Cellular Dynamics	Nagafuchi Akira Kobayashi Chiyoko	 Cytoplasmic regulation of cadherin-mediated cell adhesion Contact regulation of cell growth Contact regulation of cell rearrangement The roles of cadherin-based cell adhesion on epithelial morphogenesis Abberant cell-cell adhesion system and cancers
	Phasing Biology	Mori Eiichiro	Biological roles of LC-domains in phase separation Pathological mechanisms of uncontrolled phase separation Atomic resolution molecular structure of phase separation Genomic stability maintenance Controlling organogenesis in a dish
Basic	Cellular and Molecular Anatomy	Inoue Koichi	1. Vascular endothelial function in health and diseases 2. Optogenetic approach to the non-neural systems 3. Molecular mechanism of stroke and neuropsychiatric disorders 4. Dynamics and importance of zinc in the nervous system
science for biological function and disease	Functional Morphology	Tatsumi Koko	 Molecular mechanisms of development and differentiation of the nervous system Molecular mechanisms of stress or injury responses of neurons and glia Functions of Glial cells in the nervous system Development of regenerative therapy for injured neurons Differentiation of neuronal stem cells and its application to regenerative medicine
	Brain and Neurophysiology	Saito Yasuhiko	Neural mechanisms of velocity-position signal transformation in eye movement system Electrophysiological properties of brainstem neurons that participate in eye movement
	Control Mechanics for Biological Function	Horie Kyoji	 Identification of novel regulators of ES cell pluripotency Epigenetic regulation of ES cell pluripotency Mechanism of iPS cell generation Development of genetic method for high-throughput analysis of gene function

Field	Specialized Subject	Professor	Research Field
Basic science for biological function and disease Bi	Biology of Aging	Nakamura Shuhei	 Elucidation of molecular and cellular mechanism of aging using model organisms (yeast, nematode, mouse, etc.) Elucidation of role and regulation of autophagy in aging and agerelated diseases Elucidation of molecular and cellular mechanism to maintain lysosomal homeostasis and its role in aging Elucidation of molecular and cellular mechanism of inter-organelle communication and its role in aging
	Molecular Oncological Pathology	Kuniyasu Hiroki	 Molecular mechanisms of cancer development and metastasis in human digestive organ cancers Animal models for environmental and genetic factors in carcinogenesis Animal models for cancer metastasis and its prevention and treatment Prediction of metastatic capacity in human cancers Cancer and life styles Cancer-host microenvironment Differences in carcinogenic mechanisms between experimental animals and humans Association of cancer with lifestyle and lifestyle-related diseases
	Bioprotection and Regeneration Medicine	Ouji Yukiteru	 Reserch on ES/iPS cell differentiation Induction of hepatocytes, insulin-producing cells, dopamine producing cells, inner ear hair cells, alveolar epithelial cells, etc.— Cell transplantation therapies for spinal cord injury, Parkinson's disease, liver diseases, diabetes mellitus, and deafness Regenerative medicine using mesenchymal stem cells and follicle stem cells Analysis of signal transduction in trichogenesis Host responses against intestinal helminth and protozoa Rerearch on infection control using trematodes Research on tick-borne infections
	Microbiology	Yano Hisakazu Nakano Ryuichi	 Research on mechanisms of β-lactam-resistant bacteria Molecular epidemiology of β-lactamase-producing Gram-negative bacilli Analysis for spread of drug-resistant bacteria in a clinical setting Pathogenicity and drug resistance of bacteria causing respiratory tract infection Infection control for drug-resistant bacteria in a hospital

Field	Specialized Subject	Professor	Research Field
	Immunology (NM course)	Ito Toshihiro Kitabatake Masahiro	 Immunological analysis of pathogenesis using various kinds of mouse model Respiratory infectious model, Bronchial asthma model, Lung fibrosis model, Sepsis model, Autoimmune disease model, Cancer model, Inflammatory bowel disease model (NM course) Analysis of immune regulation mechanism by epigenetics Influenza virus, Allergy(NM course) Analysis of the linkage between innate and acquired immunity by Notch signaling Analysis of host immune mechanism and development of vaccines against multi-drug resistant bacteria Immunological analysis of multiple functions for non classical HLA
Basic science for biological function and disease	Signal Transduction in Pharmacology	Yoshizumi Masanori Nakahira Kiichi	 Explore the role of oxidative stress in the progression of atherosclerosis Development of new drugs for atherosclerosis from natural food nutrients Mechanisms of vasoactive substance-induced vascular remodeling in hypertension and atherosclerosis Investigation into the molecular mechanisms and pharmacological intervention for angiogenesis Analysis of intracellular signal transduction of insulin resistance in vascular smooth muscle cells Explore the role of oxidative stress in the progression of neurodegenerative diseases Protein S-nytorsylation and diseases Investigation into the mechanisms of intracellular signal transduction in neural type nicotinic acetylcholine receptor
	Embryology	Kurimoto Kazuki	Development of single-cell omics methods combined with histology Research for mechanisms of germ cell development. Research for mechanisms of quality control of germ cells Research for mechanisms of epigenome reprogramming of primordial germ cells Research for mechanisms of potential pluripotency in primordial germ cells

Field	Specialized Subject	Professor	Research Field
Basic science for biological function and disease	Advanced Medical Science of Thrombosis and Hemostasis	Tatsumi Kohei	 Research of coagulation and fibrinolytic factors in inflammatory diseases Research of coagulation and fibrinolytic factors in metabolic diseases Research of coagulation and fibrinolytic factors in diseases of premature infants Study on the relationship between aging and coagulation / fibrinolytic factors Research on the treatment of blood coagulation disorders using mesenchymal stem cells, ES cells, and iPS cells Research on the molecular pathogenesis of cancer-associated thrombosis Research of coagulation and fibrinolysis system in organ linkage
	Applied Medical Science and Clinical Research	Yoshizumi Masanori Sugiura Shigeki Kashino Genrou	(Central Medical Research Facilities) 1. Application of recombinant antibody engineering 2. Development of research reagents or diagnostic products using monoclonal antibodies against DNA damage .Research of the radiation effect
	Cardiovascular System Research	Kokame Koichi Nakagawa Osamu	Functional Regulation of the Cardiovascular and Coagulation System Signal Transduction and Transcriptional Regulation in Cardiovascular and Coagulation Systems Etiologies of Human Congenital/Hereditary Diseases Related to Cardiovascular Development and Blood Coagulation

	Specialized			
Field	Subject	Professor	Research Field	
Clinical	Cardiovascular Medicine	Hikoso Shungo Watanabe Makoto Onoue Kenji	 Study for molecular mechanism of heart failure Study for molecular mechanism of multi-organ interaction in heart failure Genetic analysis of cardiomyopathy and its clinical application for diagnosis Clinical study using biopsied samples in left ventricle Study for pathophysiology of coronary artery diseases using optical coherence tomography Registry study of heart failure and acute myocardial infarction Development of new quality indicators for healthy life expectancy Study for new cardiovascular imaging technique using MRI Epidemiological study for cardiovascular events in diabetes Mellitus Development of new technology for Imaging Analysis using Artificial Intelligence Epidemiological study for cardiovascular managing using current big data Research for the utility of arrhythmia detection with implantable loop recorder on management in patients with heart failure 	
medicine for organ and disease control	Clinical and Pathological Nephrology	Tsuruya Kazuhiko Samejima Kenichi Eriguchi Masahiro	 Involvement of renal interstitial fibrosis in the progression of chronic kidney disease Involvement of renal tubular damage in nephrotic syndrome Involvement of dyslipidemia in the development and progression of chronic kidney disease Investigation of factors affecting postoperative acute kidney injury Effect of chronic kidney disease on tumor-related death Development and validation of a prediction model for cardiovascular death score using specified health check-up mega-data Association between kidney biopsy pathologically findings and renal prognosis in diabetic nephropathy Association between urinary FSP-1 and renal prognosis in chronic kidney disease Association between steroid treatment during relapse phase and renal prognosis in IgA nephropathy Efficacy of low-dose steroid therapy in minimal change disease Involvement of sympathetic nervous system in cardiorenal syndrome Relationship between dialysis modality and progression of coronary artery calcification 	

Field	Specialized	Professor	Research Field
	Subject		
Clinical	Respiratory Medicine	Muro Shigeo Yamauchi Motoo Hontsu Shigeto	 Pathogenesis and mechanisms of airway remodeling / pulmonary vascular remodeling Regenerative medicine in epithelial and endothelial cells of the lung in patients with pulmonary emphysema Analysis of the pathogenesis, nutritional metabolism and development of new treatment for COPD Establishment of disease diversity and individualized treatment of sleep apnea syndrome The role of chemokines and dendritic cells in the autoimmune and allergic diseases Molecular mechanisms of growth and progression in lung cancer
medicine for organ and			7. Construction of the "tailor-made therapy" for lung cancer
disease control	Yoshiji Hitoshi Mitoro Akira Akahane Takemi Gastroenterology and Metabolism Namisaki Tadashi Moriya Kei Kawaratani Hideto Kaji Kosuke	 Pathophysiology of ascites and spontaneous bacterial peritonitis Endotoxin, innate immunity and digestive diseases ADAMTS13 abnormality in liver, biliary and pancreatic diseases Liver regeneration (from embryonic stem cells to hepatic stem cells) Pathophysiology of nonalcoholic steatohepatitis Anti-angiogenesis treatment for hepatocellular carcinoma Pathophysiology of liver fibrosis Pathophysiology and treatment of acute hepatic failure Liver transporter in liver diseases Pathophysiology of digestive and liver disorders in the elderly 	
	Diabetes and Endocrinology	Takahashi Yutaka Okada Sadanori	1.Big data analysis of diabetes, endocrine and metabolic diseases using claimed data base including National Database 2.Elucidation of pathophysiology of diabetes, endocrine and metabolic diseases, especially pituitary and adrenal diseases 3.Pathophysiological study of endocrine immune related adverse event in immune checkpoint inhibitor 4.Epidemiological study on the risk of diabetes and obesity 5.Pathophysiological study on diabetes and obesity 6.Pathophysiological study of paraneoplastic autoimmune hypophysitis including Anti-PIT-1 hypophysitis, isolated ACTH deficiency, and immune checkpoint inhibitor-related hypophysitis

Field	Specialized Subject	Professor	Research Field
	•	Sugie Kazuma	Neurogenetic and pathological mechanism of neuromuscular disorders
		Kataoka Hiroshi	2.Molecular mechanism of autophagy in neurological and mycological disorders
	Clinical Neurology and Myology	Saito Kozue	3.Pathomechanism of Parkinson's disease 4.Pathomechanism and therapeutic study of central vervous system infections
		Izumi Tesseki	5.Neuroradiological study of stroke 6.Pathomechanism of demyelinationg disorders in central nervous
Clinical		Kiriyama Takao	system 7.Neurophysiological study of neuromuscular ddisorders
medicine for organ and disease control	Gastroenterological Surgery	Sho Masayuki Koyama Fumikazu Ikeda Naoya Kuge Hiroyuki Matsumoto Sohei	 Molecular biological study for development,progression and metastasis of gastorointestinal and hepato-biliary-pancreatic cancer Less-invasive surgery and functional surgery for resection of gastorointestinal and hepato-biliary-pancreatic cancer Development of new strategy of chemotherapy,immunotherapy and gene therapy for digestive for gastorointestinal and hepato-biliary-pancreatic cancer Research for pathogenesis and treatment for inflammatory bowel disease Clinical and experimental research for liver,pancreas,and small bowel transplantation Study for gastorointestinal motility in digestive surgery Development of new techniques in abdominal and transplantation surgery
	Neurological Disorder Control	Boku Eishu Nakagawa Ichiro Nishimura Fumihiko	 Basic study on pathophysiology of brain ischemia Basic study on pathophysiology of cerebral venous circulation disorders Basic study on hypoxic brain injury (neuron damage) Basic and clinical study of the acquisition of epileptogenesity Study of the mechanism of electroencephalographic activity Study on the mechanism and surgical management of spinal cord injury Analysis for the regulatory mechanism of brain tumor Experimental study of the mechanisms responsible for the development and growth of dural arteriovenous fistula Clinical and basic study of the treatment for involuntary movement

Field	Specialized Subject	Professor	Research Field
	Circulatory and Respiratory Control Medicine	Hosono Mitsuharu Sawabata Noriyoshi	 Research on surgical treatment for valvular disease Research on circulatory assist device Research on regenerative medicine of the heart Research on less(minimally) invasive cardiovascular surgery Research on ischemic reperfusion injury of the heart Basic and clinical research on the occurrence,metastasis,and recurrenceof pulmonary and mediastinal malignancies Research on minimally invasive surgery for pulmonary and mediastinal malignsncies Basic and clinical research on small circulation function in thoracic surgery Basic and clinical research on degenerative lung deseases (emphysema,pulmonary fibrosis,etc.)in thoracic surgery
Clinical medicine for organ and disease control	Musculoskeletal Reconstructive Surgery (NM course)	Tanaka Yasuhito Omokawa Shohei Honoki Kanya Kido Akira Taniguchi Akira Ogawa Munehiro Kawamura Kenji Shigematsu Hideki Inagaki Yuusuke	1.Explication for pathogenesis of musculoskeletal diseases 2.Elucidation for biomechanical genesis of degenerative diseases 3.Experimental study for bone regeneration using mesenchymal stem cells 4.Clinical research of bone regeneration using bone marrow 5.Basic and clinical research of regenerative cartilage using MSC 6.Development and clinical application of orthpaedic artificial material 7.Development of new surgical treatment for rheumatoid arthritis (NM course) 8. Explication for a fracture healing process and development of fracture treatments 9.Explication for pathogenesis of enthesopathy and clinical application of its treatments 10.New developments for total ankle prostheses 11.Development of stem cell biology to elucidation and treatment of sarcoma 12.Development of new donor-site for extremity reconstruction with microsurgical technique 13.Bone and joint reconstruction with the use of tissue engineering and microsurgery 14.Development of ultrasonography assisted procedure for orthopedic surgery 15.Clinical research on microsurgery(NM course) 16Development of new rehabilitation approach

Field	Specialized	Professor	Research Field
Field	Subject	1 10165501	Research Field
	Sports Medicine	Tanaka Yasuhito Ogawa Munehiro Inoue Kazuya	 Elucidation of the mechanism for musculoskeletal overuse syndrome Ultrasonographycal analysis for the pathomechanism of sports related injuries Clinical utility of acceleration training for the functional recovery of sports related injuries Basic research of the cycling(pedaling) exercise for locomotive syndrome Utility of medical fitness for community medicine
Clinical medicine for organ and disease control	Bioregulatory Medicine of female genital organ	Kimura Fuminori Kawaguchi Ryuji	 Investigator-initiated clinical trial for patients with gynecological cancers through the treatment of anti-metastatic compounds Development of anti-metastatic gene therapy for patients with ovarian cancer Development of a drug discovery system for anti-metastatic compounds based on quantum chemical calculations Elucidation of the invasion mechanism of gynecological cancers Elucidation of genes that regulate drug sensitivity to anticancer agents Elucidation of genes involved in malignant transformation of endometriosis Genetic analysus of familial uterine cancer and elucidation of causative genes Development of diagnostic criteria for adenoma malignum and related diseases Research on mass screening for early detection of ovarian cancer Investigation of the mechanism of deep vein thrombosis during pregnancy and the postpartum period Research on the effects of anti-inflammatory compounds on preeclampsia Research on the prevention of endometriosis and development of the method for its symptom relief Research on the efficacy of ovarian tissue cryopreservation for cancer patients Research on the development of a procedure for ovarian tissue cryopreservation and autologous transplantation for cancer patients

Field	Specialized Subject	Professor	Research Field
	Ophthalmology and Vision Science	Ueda Tetsuo Nishi Tomo	1.Influence of glaucoma on circadian biological rhythms 2. Refractive Surgery 3.Research on Retinal pigment epithelium and cytokine 4. Studies of ocular aberration 5. Mechanism of age-related macular degeneration 6. Studies of clinical treatment on age-related macular degeneration
			 Mechanism of diabetic retinopathy Studies of clinical treatment on diabetic retinopathy Studies of neuroprotection Studies of ocular blood flow Cohort studies of visual acuity on aged people The effect of the intraocular lenses to the circadian rhythm
Clinical medicine for organ and disease control	Newborn Health and Development	Nogami Keiji	 Biochemical and molecular studies on pathogenesis and pathophysiology of congenital hemorrhagic disorders (hemophilia,von Wiillebrand disease,etc.) Biochemical and molecular studies on pathogenesis and pathophysiology of congenital thrombotic disorders (antithrombin,protein C,protein S,ADAMTS 13 deficiency,etc) Pathogenesis and pathophysiology of acquired hemorrhagic and thrombotic disorders Physiological and pathological analysis of thrombus formation Liver transplantation (APOLT) and gene/cell therapy for hemophilia Studies on hemorrhagic and thrombotic disorders in premature and neonatal infants Genetic councelling for congenital and hereditary diseases
	Child Health and Development	Nishikubo Toshiya Uchida Yumiko	1. Pathological analysis of neonatal intraventricular hemorrhage from blood coagulation mechanism 2. Elucidation of blood coagulation control mechanism involved in the development of neonatal chronic lung disease 3. Pathophysiological analysis of bilirubin encephalopathy in preterm infants

D. 11	Specialized	D. C	D. LEWI
Field	Subject	Professor	Research Field
Clinical	Psychiatry and Behavioral Neuroscience	Makinodan Manabu Yamauchi Takahira Toritsuka Michihiro	1.Early intervention in psychiatric disorders and its dissemination and enlightenment 2.Brain-imaging and brain-physiology of psychiatric disorders in childhood and adolescence 3.Cognitive rehabilitation for psychiatric disorders 4. Brain-imaging and brain physiology for the prevention of senile psychiatric disorders 5.Modeling of psychiatric disorders using induced pluripotent stem (iPS) cells 6.Dissenting psychiatric model mice with time-and brain region-specific transgenic expression and environmental manipulation 7.Investigating the pathobiology and drug-discovery for autism spectrum disorder and attention-deficit hyperactivity disorder 8.Studies of mental health literacy and stigma in psychiatry 9.Using AI and big data in clinical psychiatry
medicine for organ and disease control	Dermatology	Asada Hideo Kuwahara Masamitsu Shinkuma Satoru Miyagawa Fumi	1. Studies on innate immunity in atopic dermatitis and development of new treatments 2. Studies on pathogenic role for microorganisms in allergic skin diseases 3. Studies on pathogenic mechanism of severe drug eruption and development of new diagnostic methods 4. Development of a novel herpes zoster vaccine 5. Studies on pathogenic mechanism of SLE 6. Studies on the orientation of cutaneous collagen fibers 7. Immunohistochemical studies on cutaneous adnexal tumors 8. Studies on the usefulness of ultrasonography in dermatology 9. Development of a new treatment for porokeratosis 10. Elucidation of the pathological mechanism of hereditary skin diseases 11. Development of regenerative medicine and gene therapy for epidermolysis bullosa

Field	Specialized Subject	Professor	Research Field
Clinical medicine for organ and disease control	Medical Science for Pathologic and Functional Control of Urogenital Organs	Fujimoto Kiyohide Tanaka Nobumichi Yoneda Tatsuo	1. Urodynamics Development of novel urodynamic evaluation using telemetry system Mechanism of nocturnal polyuria: the effect of body water distribution 2. Chronic renal failure and renal transplantation Influence of microflora on Chronic renal transplantation patients Body composition analysis for optimal hemodialysis 3. Renal cell carcinoma Evaluation of split renal function following renal surgery; 3D-image analysis Immunological mechanism of combination with cytokine and molecular targeting therapy 4. Urotherial carcinoma Photodynamic diagnosis of superficial bladder cancer Methylation analysis in urotherial carcinoma 5. Prostate carcinoma Radiosensitization Chemoprevention for prostate cancer 6. Sleep disorder and voiding dysfuncton
	Prostate brachytherapy	Tanaka Nobumichi Fujimoto Kiyohide Asakawa Isao	Clinical and basic research for low-dose-rate brachytherapy and high-dose-rate brachytherapy concerning improvement of oncologic outcomes, preservation of quality of life (QOL) and control of adverse events Focal therapy of brachytherapy Development of radiation modifiers
	Otolaryngology-Head and Neck Surgery	Kitahara Tadashi Yamanaka Toshiaki	 Molecular Mechanisms of tinnitus generation in thauditory pathway Stress and Meniere's disease Equilibrium disturbance and vertigo Sensory medicine in sports Molecular Mechanisms of cholesteatoma generation Ultrasound hearing Development of ultrasound hearing aids Evaluation of the speech perception ability and hearing aids Molecular biology for head and neck cancer Thyroid gland and salivary glands

Field	Specialized Subject	Professor	Research Field
	Image-based Diagnosis and Minimal Invasive Therapy	Tanaka Toshihiro Nishiofuku Hideyuki	1.Diagnostic imaging and IVR in neuroradiology 2.Throracic imaging and IVR 3.Endovascular therapy for aortic disease 4.MRI study for abdomen and pelvis 5.IVR for malignant tumor 6.IVR for chronic pain 7.IVR in palliative treatment 8.IVR for emergency disease 9.Radiation dose reduction during IVR procedure 10.Percutaneous biopsy and gene diagnosis
			11.Inovation of new contrast agents 12.Tumor immune microenvironment in IVR
Clinical medicine for organ and disease control	Radiation Oncology	Isohashi Fumiaki Asakawa Isao Tamamoto	1.LQ model and fractionation schedules in radiation therapy 2.Radiation biology and physics of high-precision radiotherapy 3.Radiation biology of heavy ion therapy and proton therapy 4.Optimization in radiotherapy for lung cancer 5.Optimization in brachytherapy for prostate cancer 6.Optimization in radiotherapy for brain tumor
	Anesthesiology and Pain Medicine	Tetsuro Kawaguchi Masahiko Hayashi Hironobu Egawa Jinji Naito Yusuke	1. Study on cerebral and spinal cord protection 2. Study on cerebral and spinal cord monitoring 3. Study on postoperative complications 4. Study on safety and quality of perioperative managements 5. Study on airway managements 6. Study on pain management for cancer patients 7. Study on chronic pain management
	Clinical neuromonitoring	Kawaguchi Masahiko Nakagawa Ichiro Hayashi Hironobu Shigematsu Hideki	1.Study on EEG in perioperative period 2.Clinical research on neuromonitoring 3.Basic research on neuromonitoring 4.Study on monitoring of blood flow and metabolism in brain and spinal cord 5.Research on new instruments in neuromonitoring

Field	Specialized Subject	Professor	Research Field
	General Medicine and Clinical Pathophysiology	Yoshimoto Kiyomi	 Theoretical analysis of the practice of general medicine Study for evaluating clinical significance of the physical examination Pathophysiological analysis for various diseases based on hemostatic perspective Pathophysiological analysis for various diseases using experimental mouse model Study for the pathophysiology of collagen disease Study for the practice of disaster medicine Research on the Effectiveness of Primary Care in Health Care Clinical research on epidemiology, diagnosis, and treatment in primary care settings Research on health care delivery systems regarding team building, information sharing, and service delivery systems Educational research on medical education and lifelong learning
Clinical medicine for organ and disease control	Oral and Maxillofacial Surgery	Kirita Tadaaki Yamakawa Nobuhiro	 Minimally invasive surgery and functional preservation for oral cancer patients Preoperative adjuvant therapy for advanced oral cancer Clinical and besic study on prevention of ARONJ Malignant transformation of oral precancerous lesions Reconstruction of oral and maxillofacial region Diagnosis and treatment for temporomandibular joint disorders Oral management in patients with dry mouth Oral management in patients with systemic disease Sedative control during oral surgery Clinical study on speech, swallowing and masticatory disorders Fixation of maxillary and maudibular bone flagments based on biomechanics Development of maxillofacial structure Regenerative medicine of maxillofacial bone using tissue engineering
	Emergency Medical Science	Fukushima Hidetada	1.Study of prehospital care for out-of-hospital arrest 2.Developmennt of rapid identification for blood stream infection 3.Study of coagulation abnormalities in emergency and critical care 4.Geospatial analysis of prehospital emergency care 5.Rapid implementation of hemodialysis for acute kidney injury

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Field	Subject	Professor	Research Field
	Diagnostic Pathology	Yoshizawa Akihiro Takeda Maiko	1.Clinicopathological studies using surgical, cytological and autopsy specimens * Histologic and morphologic study * Immunohistochemical study * Molecular study 2. Pathological image analysis using deep learning model * Development of morphological recognition algorithm using weakly supervised data * Investigation of tumor grading using multiscale network 3. Study of disease mechanisms by molecular biological analysis using human tumor cells * Analysis of tumor-specific gene expression using tumor-derived cultured cells * Molecular biological studies on tumor development and progression * Study for Epigenetic tumor-related genes
			* Development and application of novel tumor markers
Clinical medicine for organ and disease control	Medical Oncology	Takeda Masayuki Yoshii Yumi	 1.Investigation of molecular mechanisms related to the cancer development, progression and prognosis. 2.Functional analysis of novel genetic mutations identified in precision medicine. 3.Investigation of resistance mechanisms in driver-positive tumors. 4.Development of new drugs across organs 5.Genomic pharmacological research 6.Research contributing to standardization of supportive and palliative fields
	Rehabilitation Medicine	Kido Akira Mano Tomoo Tanaka Yasuhito	1.Impairments-driven cancer rehabilitation 2.Physical activity in the frail elderly 3.Multidirectional evaluation in swallowing function 4.Efficacy of rehabilitation on mobility and brain plasticity in cerebral infarction patients: A time-course study with functional MRI 5.The relationship between the higher brain function and the cortical excitability induced by transcranial magnetic stimulation (TMS) 6.Clinical application of the biofeedback respiratory rehabilitation 7.A novel multimodal prehabilitation program for perioperative patients 8.The fun in the acquisition process of the activity 9.Activity-included life style model for extension of healthy life expectancy
	Clinical Laboratory Medicine	Yamazaki Masaharu	1.Research on usability of clinical examination 2.Reaearch on prevention of reactivation of hepatitis B virus infection 3.Research on pathophysiology of heart failure using echocardiography

Field	Specialized Subject	Professor	Research Field
	Bloodstream Reconstructive Medicine	Matsumoto Masanori	 Analysis of thrombotic maicroangiopathy (TMA) Japanese TMA registry ADAMTS13 gene analysis in congenital thrombotic thrombocytopenic purpura (cTTP or Upshaw-Schulamn syndrome) Development of novel therapeutic agents for TTP Analysis of pathophysiology in patients with TMA associated with hematopoietic cell transplantation Diagnosis and treatment of von Willebrand disease Analysis of acquired von Willebrand syndrome (AVWS) AVWS associated with myeloproliferative neoplasm AVWS associated with cardiovascular disorders Development of a therapeutic anti-ADAMTS13 inhibitory antibody for AVWS Dynamic analysis of von Willebrand factor (VWF)/ADAMTS13 axis under sheer stress
Clinical medicine for organ and disease control	Infectious Diseases	Kasahara Kei	 Research on VWF/ADAMTS13 axis in hepatic disorders. Research on COVID-19 infection Research on interaction between host and microorganism in infectious diseases Research on host defense and its control in respiratory tract infection Research on biological activity of antimicrobial agents against resistant bacteria Research on pathogenesis and treatment of HIV infection Research on early diagnosis and multidisciplinary treatment of deep-seated fungal diseases Research on molecular epidemiology of drug resistant bacteria Research on appropriate use of antimicrobial agents Research on prevention of healthcare-associated infections Research on social implementation of infection prevention technologies
	Clinical and Translational Science	Kasahara Masato Kasama Shu Asada Kiyoshi Kurakami Hiroyuki	 1.A research regarding the implementation and support of the industry-initiated clinical trials and investigator-initiated clinical trials 2. A research regarding the implementation and support of the post-marketing clinical trials 3. A research regarding the implementation and support of the cohot study

Field	Specialized Subject	Professor	Research Field
	Laboratory of Advanced Technology for Interventional Radiology	Anai Hiroshi	The aim of our laboratory is to investigate advanced and novel technology for interventional radiology. 1. Fundamental research of percutaneous ablation 2. Fundamental and innovative research of devices for interventional radiology 3. Research and development of image guidance 4. Clinical application of new technology for interventional radiolog
Clinical medicine for organ and disease control	Proton Beam Radiation Oncology	Yoshimura Hitoshi	 Research on the range calculation with dual energy CT in proton radiotherapy Research on the range measurement in patients with off-line PET Research on the relative biological effectiveness of proton beams Research on the effect of neutron in proton radiotherapy Research on the inter-fractional variation measurement with inroom CT Research on the variation of the bladder volume estimation between in-room CT and echography Research on the robust treatment planning of proton radiotherapy Research on the dose distribution comparison between proton radiotherapy and photon radiotherapy
	Medical Sensing Technology	Yamamoto Kouhei Kodama Hidekazu	Mechanism of bone, cartilage and air conductions hearing and optimum of cartilage conduction hearing aids. Development of vital signal sensing methods utilizing electroacoustic transducers combined with hearing aids.

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本学での研究課題

奈良県立医科大学大学院医学研究科に入学を希望しておりますので、受験を 許可されますようお願いします。

年 月 日

奈良県立医科大学長 殿

受験希望者 氏名

履 歴 書

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奈良県立医科大学長 殿

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私は、上記の者が奈良県立医科大学外国人特別学生として入学した場合、次の事項につい て保証します。

- (1) 本人に奈良県立医科大学の規定を遵守させます。
- (2) 本人の在学中に関する一切の責任は、私が引き受けます。
- (3) 本人が滞在費(授業料等)を支払うことができないときは、私が負担します。
- (4) 本人の学外における生活について必要な指導助言を行います。

年 月 日

保証人

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奈良県立医科大学大学院医学研究科(博士課程)入学願書 (第 次)

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奈良県立医科大学大学院医学研究科 (第次)

受 験 票

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