

# **Admission Guide for International Students, 2025 (Doctoral Course)**

The first examination : 5<sup>th</sup>-Nov(Tue),2024  
The second examination : 27<sup>th</sup>-Jan(Mon),2025

Depending on the situations of the first applications for 2025 graduate admissions, the second applications might be canceled.

**Graduate School of Medicine, Nara Medical University**

**840 Shijo-cho, Kashihara, Nara 634-8521, Japan**

**Tel: +81-744-22-3051 Ext. 2401**

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

**1.Description for specialized subjects.**

Specialized Subjects

Major Field	Field	Specialized Subjects
Medical Science	Social and Community Health Science	Epidemiology Public Health Legal Medicine Medicine Based Town Medical Informatics and Hospital Management
	Basic science for biological function and disease	Biomacromolecules Molecular and Cellular Dynamics Phasing Biology Cellular and Molecular Anatomy Functional Morphology Brain and Neurophysiology Control Mechanics for Biological Function Biology of Aging Molecular Oncological Pathology Bioprotection and Regeneration Medicine Microbiology Immunology (*NM course) Signal Transduction in Pharmacology Embryology Advanced Medical Science of Thrombosis and Hemostasis Applied Medical Science and Clinical Research Cardiovascular System Research
	Clinical medicine for organ and disease control	Cardiovascular Medicine Clinical and Pathological Nephrology Respiratory Medicine Hematology Gastroenterology, Endocrinology and Metabolism Diabetes and Endocrinology Clinical Neurology and Myology Gastroenterological Surgery 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
Medical Science	Clinical medicine for organ and disease control	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 Anesthesiology and Pain Medicine Clinical neuromonitoring General Medicine and Clinical Pathophysiology Oral and Maxillofacial Surgery 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**

Those who 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).

- (1) Those who had 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) Those who given Bachelor's Degree in medicine or dentistry as an international student in Japan
- (3) Those who given 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) Those who given 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 of 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
  - (h) Certificate of identity (use the form provided)
  - (i) Passport or a Copy of Residence card
  - (j) 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: Enter the 'GMS' followed by the 'Applicant's Name' in the Applicant's Name field of the transfer information. (e.g.) GMSTaroIdai

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 Tuesday, October 8 - Friday, October 11, 2024

The second examination Tuesday, January 7 - Friday, January 10, 2025

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

**9:00 am on 2<sup>th</sup>-September (Mon) ~ 5:00 pm on 6<sup>th</sup>-September (Fri), 2024**

**\*Office hours: From 9:00 to 17:00, Mon-Fri (except Japanese holiday)**

**If sent by mail, must arrive no later than 5:00 pm on Friday, September 6, 2024**

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

**9:00 am on 8<sup>th</sup>-October (Tue) ~ 5:00 pm on 11<sup>th</sup>-October (Fri), 2024**

**\*Office hours: From 9:00 to 17:00, Tue-Fri (except Japanese holiday)**

**If sent by mail, must arrive no later than 5:00 pm on Friday, October 11, 2024**

The second examination

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

**9:00 am on 2<sup>th</sup>-December (Mon) ~ 5:00 pm on 6<sup>th</sup>-December (Fri), 2024**

**\*Office hours: From 9:00 to 17:00, Mon-Fri (except Japanese holiday)**

**If sent by mail, must arrive no later than 5:00 pm on Friday, December 6, 2024**

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

**9:00 am on 7<sup>th</sup>- January (Tue) ~ 5:00 pm on 10<sup>th</sup>-January (Fri), 2025**

**\*Office hours: From 9:00 to 17:00 Tue-Fri (except Japanese holiday)**

**If sent by mail, must arrive no later than 5:00 pm on Friday, January 10, 2025**

## 5. Any other inquiries

Student Division

Graduate School of Medicine, Nara Medical University

840, Shijo-cho, Kashihara, Nara 634-8521 Japan

gakuseik@naramed-u.ac.jp

## 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
5 <sup>th</sup> -Nov (Tue), 2024	10:00 - 11:30	English	Written test or oral answer test	To be notified on the day
	13:00 - 14:30	Specialized subjects First choice	Oral answer test	To be notified on the day
	14:40 - 16:10	Specialized subjects Second choice		

The second examination

Examination date		Subjects		Location
27 <sup>th</sup> -Jan (Mon), 2025	10:00 - 11:30	English	Written test or oral answer test	To be notified on the day
	13:00 - 14:30	Specialized subjects First choice	Oral answer test	To be notified on the day
	14:40 - 16:10	Specialized subjects Second choice		

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: **10<sup>th</sup>-December (Tue), 2024**

For the result of the second examination: **4<sup>th</sup>-March (Tue), 2025**

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 around on Mar, 2025.**

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 ( ¥320 will be necessary after 1 October.) (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 can not 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 9:30am on 5th-Nov (Tue), 2024**  
The examination card for the second examination given at Student Division,  
**9:00 to 9:30am on 27th-Jan (Mon), 2025**
- (5)Inquiries will be accepted by e-mail only. (igakukenkyuka@narmed-u.ac.jp)



Field	Specialized Subject	Professor	Research Field
Social and Community Health Science	Epidemiology	Saeki Keigo  Obayashi Kenji	<p>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:</p> <ol style="list-style-type: none"> <li>1) Environment/behavior and biological rhythm               <ul style="list-style-type: none"> <li>• Temperature vs. blood pressure</li> <li>• Light vs. objective sleep, and nocturia</li> <li>• Light vs. melatonin secretion</li> <li>• Bathing and blood pressure</li> <li>• Breakfast skipping vs. obesity</li> </ul> </li> <li>2) Environment/behavior and disease               <ul style="list-style-type: none"> <li>• Light vs. obesity, dyslipidemia, diabetes, depression, carotid intima media thickness</li> <li>• Light/temperature vs. incidence of cardiovascular disease and cancer</li> </ul> </li> <li>3) Biological rhythm and disease               <ul style="list-style-type: none"> <li>• Melatonin secretion vs. depression, cognitive function, muscle strength, and chronic inflammation.</li> </ul> </li> </ol>
	Public Health, Health Management and Policy	Imamura Tomoaki  Noda Tatsuya  Myojin Tomoya	<ol style="list-style-type: none"> <li>1. Evidence-Based Public Health Studies on:               <ul style="list-style-type: none"> <li>• Epidemiology and establishing analytical systems using big data: National Database (NDB), National Insurance/Kokuho Database (KDB), and Diagnostic Procedure Combination (DPC)</li> <li>• Consolidation of databases (DB) for medicine, healthcare, nursing care, intractable diseases, and disorders</li> <li>• Food defense and cohort study on the Kanemi Yusho incident (food poisoning with PCB)</li> <li>• Risk communication in medicine, healthcare and food</li> <li>• Medical care and nursing care for the aged using DBs of medicine and nursing care</li> <li>• Healthcare communication between healthcare providers and patients And their family members</li> </ul> </li> <li>2. Health Management and Policy Studies on:               <ul style="list-style-type: none"> <li>• Investigation and policy recommendations for developing both national and community-based health plans as well as nursing care business plans</li> <li>• Cost effectiveness in medicine and health, and economically efficient allocation and use of diagnostic imaging equipment</li> <li>• Improvement in hospital management</li> <li>• Reimbursement of medical service fees, and break-even point in healthcare services</li> <li>• Cooperation between medical services and nursing care the time of patient discharge</li> <li>• Transferring and sharing workloads (task shifting and sharing) from medical doctors to other healthcare providers</li> </ul> </li> </ol>

Field	Specialized Subject	Professor	Research Field
Social and Community Health Science	Legal Medicine	Kasuda Shogo	<ol style="list-style-type: none"> <li>1. Study on effect of ethanol on vascular function</li> <li>2. Study on relationship between vascular function and sudden death</li> <li>3. Study on effect of ethanol on sepsis</li> <li>4. Study on effect of ethanol on thrombosis</li> </ol>
	Medicine Based Town	Umeda Tomohiro	<ol style="list-style-type: none"> <li>1. Designing a concept for social hospital associated with medical knowledge and technology</li> <li>2. Evaluation systems of IoT-oriented environmental data and vital signs</li> <li>3. An administration model and policy toward making society where people live independently</li> <li>4. Healthcare management systems and its platforms</li> <li>5. Evaluation methods and analysis of BIC data from medical health data</li> <li>6. Healthcare index, and the prediction of illness risk</li> <li>7. Tools for rehabilitation and care management</li> <li>8. Locomotive syndrome and the extension of healthy life expectancy</li> <li>9. MBT creating innovation</li> </ol> <p>What is MBT?</p> <p>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.</p> <p>IoT: Internet of Things</p> <p>About IoT</p> <p>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</p>
	Medical Informatics and Hospital Management	Tamamoto Tetsuro Suto Shunji	<ol style="list-style-type: none"> <li>1. Strategic promotion of medical information cooperation</li> <li>2. Telemedicine support using mobile devices</li> <li>3. Implementation of standards in the hospital information system</li> <li>4. Effective utilization of the patient condition adaptive path system</li> <li>5. Improvement and improvement of the quality of medical care based on medical information data</li> <li>6. Medical safety based on medical information data</li> <li>7. Medical management based on medical information data</li> <li>8. Human resource development and career support to promote the utilization of medical information</li> <li>9. Human resource development and career support for the practice of hospital management</li> </ol>

Field	Specialized Subject	Professor	Research Field
Basic science for biological function and disease	Biomacromolecules	Sakai Hiromi Yamamoto Keizo Matsuhira Takashi	<ol style="list-style-type: none"> <li>1. Design and synthesis of artificial red cells and transfusion alternatives</li> <li>2. In vivo efficacy evaluation of artificial red cells</li> <li>3. New clinical application of artificial red cells</li> <li>4. Study on new micro-and nano-encapsulation</li> <li>5. Purification and chemical modification of biomacromolecules</li> <li>6. X-ray crystallography and functional evaluation of proteins</li> <li>7. Study on new materials for biomedical application</li> </ol>
	Molecular and Cellular Dynamics	Nagafuchi Akira Kobayashi Chiyoko	<ol style="list-style-type: none"> <li>1. Cytoplasmic regulation of cadherin-mediated cell adhesion</li> <li>2. Contact regulation of cell growth</li> <li>3. Contact regulation of cell rearrangement</li> <li>4. The roles of cadherin-based cell adhesion on epithelial morphogenesis</li> <li>5. Abberant cell-cell adhesion system and cancers</li> </ol>
	Phasing Biology	Mori Eiichiro	<ol style="list-style-type: none"> <li>1. Biological roles of LC-domains in phase separation</li> <li>2. Pathological mechanisms of uncontrolled phase separation</li> <li>3. Atomic resolution molecular structure of phase separation</li> <li>4. Genomic stability maintenance</li> <li>5. Controlling organogenesis in a dish</li> </ol>
	Cellular and Molecular Anatomy	Inoue Koichi	<ol style="list-style-type: none"> <li>1. Vascular endothelial function in health and diseases</li> <li>2. Optogenetic approach to the non-neural systems</li> <li>3. Molecular mechanism of stroke and neuropsychiatric disorders</li> <li>4. Dynamics and importance of zinc in the nervous system</li> </ol>
	Functional Morphology	Tatsumi Kouko Tanaka Tatsuhide	<ol style="list-style-type: none"> <li>1. Molecular mechanisms of development and differentiation of the nervous system</li> <li>2. Molecular mechanisms of stress or injury responses of neurons and glia</li> <li>3. Functions of Glial cells in the nervous system</li> <li>4. Development of regenerative therapy for injured neurons</li> <li>5. Differentiation of neuronal stem cells and its application to regenerative medicine</li> </ol>
	Brain and Neurophysiology	Saito Yasuhiko	<ol style="list-style-type: none"> <li>1. Neural mechanisms of velocity-position signal transformation in eye movement system</li> <li>2. Electrophysiological properties of brainstem neurons that participate in eye movement</li> </ol>

Field	Specialized Subject	Professor	Research Field
Basic science for biological function and disease	Control Mechanics for Biological Function	Horie Kyoji	<ol style="list-style-type: none"> <li>1. Identification of novel regulators of ES cell pluripotency</li> <li>2. Epigenetic regulation of ES cell pluripotency</li> <li>3. Mechanism of iPS cell generation</li> <li>4. Development of genetic method for high-throughput analysis of gene function</li> </ol>
	Biology of Aging	Nakamura Shuhei	<ol style="list-style-type: none"> <li>1. Elucidation of molecular and cellular mechanism of aging using model organisms (yeast, nematode, mouse, etc.)</li> <li>2. Elucidation of role and regulation of autophagy in aging and age-related diseases</li> <li>3. Elucidation of molecular and cellular mechanism to maintain lysosomal homeostasis and its role in aging</li> <li>4. Elucidation of molecular and cellular mechanism of inter-organelle communication and its role in aging</li> </ol>
	Molecular Oncological Pathology	Kuniyasu Hiroki	<ol style="list-style-type: none"> <li>1. Molecular mechanisms of cancer development and metastasis in human digestive organ cancers</li> <li>2. Animal models for environmental and genetic factors in carcinogenesis</li> <li>3. Animal models for cancer metastasis and its prevention and treatment</li> <li>4. Prediction of metastatic capacity in human cancers</li> <li>5. Cancer and life styles</li> <li>6. Cancer-host microenvironment</li> <li>7. Differences in carcinogenic mechanisms between experimental animals and humans</li> <li>8. Association of cancer with lifestyle and lifestyle-related diseases</li> </ol>
	Bioprotection and Regeneration Medicine	Ouji Yukiteru	<ol style="list-style-type: none"> <li>1. Reserch on ES/iPS cell differentiation – Induction of hepatocytes , insulin-producing cells, dopamine producing cells, inner ear hair cells, alveolar epithelial cells, etc.–</li> <li>2. Cell transplantation therapies for spinal cord injury, Parkinson’s disease, liver diseases, diabetes mellitus, and deafness</li> <li>3. Regenerative medicine using mesenchymal stem cells and follicle stem cells</li> <li>4. Analysis of signal transduction in trichogenesis</li> <li>5. Host responses against intestinal helminth and protozoa</li> <li>6. Rerearch on infection control using trematodes</li> <li>7. Research on tick-borne infections</li> </ol>

Field	Specialized Subject	Professor	Research Field
Basic science for biological function and disease	Microbiology	Yano Hisakazu Nakano Ryuichi	<ol style="list-style-type: none"> <li>1. Research on mechanisms of <math>\beta</math>-lactam-resistant bacteria</li> <li>2. Molecular epidemiology of <math>\beta</math>-lactamase-producing Gram-negative bacilli</li> <li>3. Analysis for spread of drug-resistant bacteria in a clinical setting</li> <li>4. Pathogenicity and drug resistance of bacteria causing respiratory tract infection</li> <li>5. Infection control for drug-resistant bacteria in a hospital</li> </ol>
	Immunology (NM course)	Ito Toshihiro Kitabatake Masahiro	<ol style="list-style-type: none"> <li>1. 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)</li> <li>2. Analysis of immune regulation mechanism by epigenetics -Influenza virus, Allergy(NM course)</li> <li>3. Analysis of the linkage between innate and acquired immunity by Notch signaling</li> <li>4. Analysis of host immune mechanism and development of vaccines against multi-drug resistant bacteria</li> <li>5. Immunological analysis of multiple functions for non classical HLA</li> </ol>
	Signal Transduction in Pharmacology	Yoshizumi Masanori Nakahira Kiichi	<ol style="list-style-type: none"> <li>1. Explore the role of oxidative stress in the progression of atherosclerosis</li> <li>2. Development of new drugs for atherosclerosis from natural food nutrients</li> <li>3. Mechanisms of vasoactive substance-induced vascular remodeling in hypertension and atherosclerosis</li> <li>4. Investigation into the molecular mechanisms and pharmacological intervention for angiogenesis</li> <li>5. Analysis of intracellular signal transduction of insulin resistance in vascular smooth muscle cells</li> <li>6. Explore the role of oxidative stress in the progression of neurodegenerative diseases</li> <li>7. Protein S-nitrosylation and diseases</li> <li>8. Investigation into the mechanisms of intracellular signal transduction in neural type nicotinic acetylcholine receptor</li> </ol>

Field	Specialized Subject	Professor	Research Field
Basic science for biological function and disease	Embryology	Kurimoto Kazuki	<ol style="list-style-type: none"> <li>1. Development of single-cell omics methods combined with histology</li> <li>2. Research for mechanisms of germ cell development</li> <li>3. Research for mechanisms of quality control of germ cells</li> <li>4. Research for mechanisms of epigenome reprogramming of primordial germ cells</li> <li>5. Research for mechanisms of potential pluripotency in primordial germ cells</li> </ol>
	Advanced Medical Science of Thrombosis and Hemostasis	Tatsumi Kohei	<ol style="list-style-type: none"> <li>1. Research of coagulation and fibrinolytic factors in inflammatory diseases</li> <li>2. Research of coagulation and fibrinolytic factors in metabolic diseases</li> <li>3. Research of coagulation and fibrinolytic factors in diseases of premature infants</li> <li>4. Study on the relationship between aging and coagulation / fibrinolytic factors</li> <li>5. Research on the treatment of blood coagulation disorders using mesenchymal stem cells, ES cells, and iPS cells</li> <li>6. Research on the molecular pathogenesis of cancer-associated thrombosis</li> <li>7. Research of coagulation and fibrinolysis system in organ linkage</li> </ol>
	Applied Medical Science and Clinical Research	Yoshizumi Masanori Kashino Genrou	(Central Medical Research Facilities) Research of the radiation effect
	Cardiovascular System Research	Kokame Koichi Nakagawa Osamu	<ol style="list-style-type: none"> <li>1. Functional Regulation of the Cardiovascular and Coagulation System</li> <li>2. Signal Transduction and Transcriptional Regulation in Cardiovascular and Coagulation Systems</li> <li>3. Etiologies of Human Congenital/Hereditary Diseases Related to Cardiovascular Development and Blood Coagulation</li> </ol>

Field	Specialized Subject	Professor	Research Field
Clinical medicine for organ and disease control	Cardiovascular Medicine	Hikoso Shungo  Watanabe Makoto	<ol style="list-style-type: none"> <li>1. Study for molecular mechanism of heart failure</li> <li>2. Study for molecular mechanism of multi-organ interaction in heart failure</li> <li>3. Genetic analysis of cardiomyopathy and its clinical application for diagnosis</li> <li>4. Clinical study using biopsied samples in left ventricle</li> <li>5. Study for pathophysiology of coronary artery diseases using optical coherence tomography</li> <li>6. Registry study of heart failure and acute myocardial infarction</li> <li>7. Development of new quality indicators for healthy life expectancy</li> <li>8. Study for new cardiovascular imaging technique using MRI</li> <li>9. Development of new technology for Imaging Analysis using Artificial Intelligence</li> <li>10. Epidemiological study for cardiovascular managing using current big data</li> <li>11. Research for the utility of arrhythmia detection with implantable loop recorder on management in patients with heart failure</li> </ol>
	Clinical and Pathological Nephrology	Tsuruya Kazuhiko  Samejima Kenichi  Eriguchi Masahiro	<ol style="list-style-type: none"> <li>1. Involvement of kidney interstitial fibrosis in the progression of chronic kidney disease</li> <li>2. Involvement of kidney tubular damage in nephrotic syndrome</li> <li>3. Involvement of dyslipidemia in the development and progression of chronic kidney disease</li> <li>4. Investigation of factors affecting postoperative acute kidney injury</li> <li>5. Elucidation of the mechanism of vascular calcification associated with chronic kidney disease</li> <li>6. Investigation of factors associated with mortality and kidney prognosis in patients with chronic kidney disease using specified health check-up mega-data</li> <li>7. Association between kidney biopsy pathologically findings and kidney prognosis in diabetic nephropathy</li> <li>8. Association between urinary FSP-1 and kidney prognosis in chronic kidney disease</li> <li>9. Association between steroid treatment during relapse phase and kidney prognosis in IgA nephropathy</li> <li>10. Efficacy of low-dose steroid therapy in minimal change disease</li> <li>11. Involvement of sympathetic nervous system in cardiorenal syndrome</li> <li>12. Relationship between dialysis modality and progression of coronary artery calcification and brain atrophy</li> </ol>

Field	Specialized Subject	Professor	Research Field
Clinical medicine for organ and disease control	Respiratory Medicine	Muro Shigeo Yamauchi Motoo Hontsu Shigeto Yamamoto Yoshifumi Fujita Yukio	<ol style="list-style-type: none"> <li>1. Pathogenesis and mechanisms of airway remodeling / pulmonary vascular remodeling</li> <li>2. Regenerative medicine in epithelial and endothelial cells of the lung in patients with pulmonary emphysema</li> <li>3. Analysis of the pathogenesis, nutritional metabolism and development of new treatment for COPD</li> <li>4. Establishment of disease diversity and individualized treatment of sleep apnea syndrome</li> <li>5. The role of chemokines and dendritic cells in the autoimmune and allergic diseases</li> <li>6. Molecular mechanisms of growth and progression in lung cancer</li> <li>7. Construction of the “tailor-made therapy” for lung cancer</li> </ol>
	Hematology	Masanori Matsumoto	<ol style="list-style-type: none"> <li>1. Pathophysiological analysis of thrombosis and bleeding events associated with myeloproliferative neoplasms (MPNs) <ul style="list-style-type: none"> <li>• Pathophysiology of acquired von Willebrand syndrome (AVWS) associated with MPN</li> <li>• Development of a novel method to assess thrombotic and bleeding risk in MPN</li> <li>• Analysis of platelet function in MPN</li> </ul> </li> <li>2. Pathophysiological analysis of complications in hematopoietic stem cell transplantation <ul style="list-style-type: none"> <li>• Pathophysiological analysis and investigation of early diagnostic markers for transplantation-associated thrombotic microangiopathy (TA-TMA) and sinusoidal obstruction syndrome (SOS)</li> <li>• Pathophysiological analysis of complement involvement in transplantation-associated complications</li> </ul> </li> <li>3. Pathophysiological analysis and investigation of treatment for thrombotic and hemorrhagic complications associated with hematologic malignancies and their therapeutic agents</li> <li>4. Development of a new rapid diagnostic assay for ADAMTS13 in thrombotic thrombocytopenic purpura (TTP)</li> </ol>
	Gastroenterology and Metabolism	Yoshiji Hitoshi Mitoro Akira Namisaki Tadashi Kaji Kosuke	<ol style="list-style-type: none"> <li>1. Pathophysiology of ascites and spontaneous bacterial peritonitis</li> <li>2. Endotoxin, innate immunity and digestive diseases</li> <li>3. ADAMTS13 abnormality in liver, biliary and pancreatic diseases</li> <li>4. Liver regeneration (from embryonic stem cells to hepatic stem cells)</li> <li>5. Pathophysiology of nonalcoholic steatohepatitis</li> <li>6. Anti-angiogenesis treatment for hepatocellular carcinoma</li> <li>7. Pathophysiology of liver fibrosis</li> <li>8. Pathophysiology and treatment of acute hepatic failure</li> <li>9. Liver transporter in liver diseases</li> <li>10. Pathophysiology of digestive and liver disorders in the elderly</li> </ol>



Field	Specialized Subject	Professor	Research Field
Clinical medicine for organ and disease control	Diabetes and Endocrinology	Takahashi Yutaka Okada Sadanori	<ol style="list-style-type: none"> <li>1. Big data analysis of diabetes, endocrine and metabolic diseases using claimed data base including National Database</li> <li>2. Elucidation of pathophysiology of diabetes, endocrine and metabolic diseases, especially pituitary and adrenal diseases</li> <li>3. Pathophysiological study of endocrine immune related adverse event in immune checkpoint inhibitor</li> <li>4. Epidemiological study on the risk of diabetes and obesity</li> <li>5. Pathophysiological study on diabetes and obesity</li> <li>6. Pathophysiological study of paraneoplastic autoimmune hypophysitis including Anti-PIT-1 hypophysitis, isolated ACTH deficiency, and immune checkpoint inhibitor-related hypophysitis</li> </ol>
	Clinical Neurology and Myology	Sugie Kazuma Kataoka Hiroshi Saito Kozue Izumi Tesseki Kiriyaama Takao	<ol style="list-style-type: none"> <li>1. Neurogenetic and pathological mechanism of neuromuscular disorders</li> <li>2. Molecular mechanism of autophagy in neurological and mycological disorders</li> <li>3. Pathomechanism of Parkinson's disease</li> <li>4. Pathomechanism and therapeutic study of central nervous system infections</li> <li>5. Neuroradiological study of stroke</li> <li>6. Pathomechanism of demyelinating disorders in central nervous system</li> <li>7. Neurophysiological study of neuromuscular disorders</li> </ol>
	Gastroenterological Surgery	Sho Masayuki Koyama Fumikazu Matsumoto Sohei Akahori Takahiro	<ol style="list-style-type: none"> <li>1. Molecular biological study for development, progression and metastasis of gastrointestinal and hepato-biliary-pancreatic cancer</li> <li>2. Less-invasive surgery and functional surgery for resection of gastrointestinal and hepato-biliary-pancreatic cancer</li> <li>3. Development of new strategy of chemotherapy, immunotherapy and gene therapy for digestive for gastrointestinal and hepato-biliary-pancreatic cancer</li> <li>4. Research for pathogenesis and treatment for inflammatory bowel disease</li> <li>5. Clinical and experimental research for liver, pancreas, and small bowel transplantation</li> <li>6. Study for gastrointestinal motility in digestive surgery</li> <li>7. Development of new techniques in abdominal and transplantation surgery</li> </ol>

Field	Specialized Subject	Professor	Research Field
Clinical medicine for organ and disease control	Neurological Disorder Control	Nakagawa Ichiro Boku Eishu Nishimura Fumihiko	1. Basic study on pathophysiology of brain ischemia 2. Basic study on pathophysiology of cerebral venous circulation disorders 3. Basic study on hypoxic brain injury (neuron damage) 4. Basic and clinical study of the acquisition of epileptogenesis 5. Study of the mechanism of electroencephalographic activity 6. Study on the mechanism and surgical management of spinal cord injury 7. Analysis for the regulatory mechanism of brain tumor 8. Experimental study of the mechanisms responsible for the development and growth of dural arteriovenous fistula 9. Clinical and basic study of the treatment for involuntary movement
	Circulatory and Respiratory Control Medicine	Hosono Mitsuharu Sawabata Noriyoshi	1. Research on surgical treatment for valvular disease 2. Research on ischemic heart disease 3. Research on circulatory assist device 4. Research on regenerative medicine of the heart 5. Research on less(minimally) invasive cardiovascular surgery 6. Research on ischemic reperfusion injury of the heart 7. Basic and clinical research on the occurrence,metastasis,and recurrenceof pulmonary and mediastinal malignancies 8. Research on minimally invasive surgery for pulmonary and mediastinal malignsncies 9. Basic and clinical research on small circulation function in thoracic surgery 10. Basic and clinical research on degenerative lung deseases (emphysema,pulmonary fibrosis,etc.)in thoracic surgery
	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 orthopaedic 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) 16. Development of new rehabilitation approach

Field	Specialized Subject	Professor	Research Field
Clinical medicine for organ and disease control	Sports Medicine	Tanaka Yasuhito  Ogawa Munehiro  Inoue Kazuya	<ol style="list-style-type: none"> <li>1. Elucidation of the mechanism for musculoskeletal overuse syndrome</li> <li>2. Ultrasonographycal analysis for the pathomechanism of sports related injuries</li> <li>3. Clinical utility of acceleration training for the functional recovery of sports related injuries</li> <li>4. Basic research of the cycling(pedaling) exercise for locomotive syndrome</li> <li>5. Utility of medical fitness for community medicine</li> </ol>
	Bioregulatory Medicine of female genital organ	Kimura Fuminori  Kawaguchi Ryuji	<ol style="list-style-type: none"> <li>1. Investigator-initiated clinical trial for patients with gynecological cancers through the treatment of anti-metastatic compounds</li> <li>2. Development of anti-metastatic gene therapy for patients with ovarian cancer</li> <li>3. Development of a drug discovery system for anti-metastatic compounds based on quantum chemical calculations</li> <li>4. Elucidation of the invasion mechanism of gynecological cancers</li> <li>5. Elucidation of genes that regulate drug sensitivity to anticancer agents</li> <li>6. Elucidation of genes involved in malignant transformation of endometriosis</li> <li>7. Genetic analysis of familial uterine cancer and elucidation of causative genes</li> <li>8. Development of diagnostic criteria for adenoma malignum and related diseases</li> <li>9. Research on mass screening for early detection of ovarian cancer</li> <li>10. Investigation of the mechanism of deep vein thrombosis during pregnancy and the postpartum period</li> <li>11. Research on analysis of the mechanism of onset of preeclampsia</li> <li>12. Research on the effects of anti-inflammatory compounds on preeclampsia</li> <li>13. Research on the prevention of endometriosis and development of the method for its symptom relief</li> <li>14. Research on the efficacy of ovarian tissue cryopreservation for cancer patients</li> <li>15. Research on the development of a procedure for ovarian tissue cryopreservation and autologous transplantation for cancer patients</li> </ol>

Field	Specialized Subject	Professor	Research Field
Clinical medicine for organ and disease control	Ophthalmology and Vision Science	Ueda Tetsuo  Nishi Tomo  Tsujinaka Hiroki	<ol style="list-style-type: none"> <li>1. Research on Retinal pigment epithelium and cytokine</li> <li>2. Studies of development in pediatric visual function</li> <li>3. Mechanism of age-related macular degeneration</li> <li>4. Studies of clinical treatment on age-related macular degeneration and macular hole</li> <li>5. Mechanism of diabetic retinopathy</li> <li>6. Studies of clinical treatment on diabetic retinopathy</li> <li>7. Studies of neuroprotection</li> <li>8. Studies of ocular blood flow</li> <li>9. Cohort studies of visual acuity on aged people</li> <li>10. The effect of the ocular diseases to the circadian rhythm</li> </ol>
	Newborn Health and Development	Nogami Keiji  Ogiwara Kenichi	<ol style="list-style-type: none"> <li>1. Biochemical and molecular studies on pathogenesis and pathophysiology of congenital hemorrhagic disorders (hemophilia, von Willebrand disease, etc.)</li> <li>2. Biochemical and molecular studies on pathogenesis and pathophysiology of congenital thrombotic disorders (antithrombin, protein C, protein S, ADAMTS 13 deficiency, etc.)</li> <li>3. Pathogenesis and pathophysiology of acquired hemorrhagic and thrombotic disorders</li> <li>4. Physiological and pathological analysis of thrombus formation</li> <li>5. Liver transplantation (APOLT) and gene/cell therapy for hemophilia</li> <li>6. Studies on hemorrhagic and thrombotic disorders in premature and neonatal infants</li> <li>7. Genetic counselling for congenital and hereditary diseases</li> </ol>
	Child Health and Development	Uchida Yumiko	<ol style="list-style-type: none"> <li>1. Pathological analysis of neonatal intraventricular hemorrhage from blood coagulation mechanism</li> <li>2. Elucidation of blood coagulation control mechanism involved in the development of neonatal chronic lung disease</li> <li>3. Pathophysiological analysis of bilirubin encephalopathy in preterm infants</li> </ol>

Field	Specialized Subject	Professor	Research Field
Clinical medicine for organ and disease control	Psychiatry and Behavioral Neuroscience	Okada Takashi Yamauchi Takahira	<ol style="list-style-type: none"> <li>1. Research on early interventions for neuropsychiatric disorders</li> <li>2. Neurophysiological studies of neuropsychiatric disorders in children and adolescents</li> <li>3. Neuromodulation research for neuropsychiatric disorders</li> <li>4. Cognitive rehabilitation of neuropsychiatric disorders</li> <li>5. Brain imaging and neurophysiological research on neuropsychiatric disorders</li> <li>6. Research on interventions for individuals with challenging behavior</li> <li>7. Research on animal models of neuropsychiatric disorders using behavior science and cell histology</li> <li>8. Research using animal models by manipulating gene expression and environmental factors</li> <li>9. Pathophysiological and cognitive neuroscience research on neurodevelopmental disorders</li> <li>10. Mental health literacy and stigma research</li> <li>11. Artificial intelligence (AI) analysis of large-scale clinical information</li> </ol>
	Dermatology	Asada Hideo Kuwahara Masamitsu Shinkuma Satoru Miyagawa Fumi	<ol style="list-style-type: none"> <li>1. Studies on innate immunity in atopic dermatitis and development of new treatments</li> <li>2. Studies on pathogenic role for microorganisms in allergic skin diseases</li> <li>3. Studies on pathogenic mechanism of severe drug eruption and development of new diagnostic methods</li> <li>4. Development of a novel herpes zoster vaccine</li> <li>5. Studies on pathogenic mechanism of SLE</li> <li>6. Studies on the orientation of cutaneous collagen fibers</li> <li>7. Immunohistochemical studies on cutaneous adnexal tumors</li> <li>8. Studies on the usefulness of ultrasonography in dermatology</li> <li>9. Development of a new treatment for porokeratosis</li> <li>10. Elucidation of the pathological mechanism of hereditary skin diseases</li> <li>11. Development of regenerative medicine and gene therapy for epidermolysis bullosa</li> </ol>

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	<ol style="list-style-type: none"> <li>1. Urodynamics <ul style="list-style-type: none"> <li>○Development of novel urodynamic evaluation using telemetry system</li> <li>○Mechanism of nocturnal polyuria: the effect of body water distribution</li> </ul> </li> <li>2. Chronic renal failure and renal transplantation <ul style="list-style-type: none"> <li>○Influence of microflora on Chronic renal transplantation patients</li> <li>○Body composition analysis for optimal hemodialysis</li> </ul> </li> <li>3. Renal cell carcinoma <ul style="list-style-type: none"> <li>○Evaluation of split renal function following renal surgery; 3D-image analysis</li> <li>○Immunological mechanism of combination with cytokine and molecular targeting therapy</li> </ul> </li> <li>4. Urothelial carcinoma <ul style="list-style-type: none"> <li>○Photodynamic diagnosis of superficial bladder cancer</li> <li>○Methylation analysis in urothelial carcinoma</li> </ul> </li> <li>5. Prostate carcinoma <ul style="list-style-type: none"> <li>○Radiosensitization</li> <li>○Chemoprevention for prostate cancer</li> </ul> </li> <li>6. Sleep disorder and voiding dysfunction</li> </ol>
	Prostate brachytherapy	Tanaka Nobumichi  Fujimoto Kiyohide  Asakawa Isao	<p>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</p> <p>Focal therapy of brachytherapy</p> <p>Development of radiation modifiers</p>
	Otolaryngology-Head and Neck Surgery	Kitahara Tadashi  Yamanaka Toshiaki	<ol style="list-style-type: none"> <li>1. Molecular Mechanisms of tinnitus generation in thauditory pathway</li> <li>2. Stress and Meniere's disease</li> <li>3. Equilibrium disturbance and vertigo</li> <li>4. Sensory medicine in sports</li> <li>5. Molecular Mechanisms of cholesteatoma generation</li> <li>6. Ultrasound hearing</li> <li>7. Development of ultrasound hearing aids</li> <li>8. Evaluation of the speech perception ability and hearing aids</li> <li>9. Molecular biology for head and neck cancer</li> <li>10. Thyroid gland and salivary glands</li> </ol>

Field	Specialized Subject	Professor	Research Field
Clinical medicine for organ and disease control	Image-based Diagnosis and Minimal Invasive Therapy	Tanaka Toshihiro  Nishiofuku Hideyuki  Ichihashi Shigeo	1. Diagnostic imaging and IVR in neuroradiology 2. Thoracic 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. Innovation of new contrast agents 12. Tumor immune microenvironment in IVR
	Radiation Oncology	Isohashi Fumiaki  Asakawa Isao  Tamamoto Tetsuro	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	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
Clinical medicine for organ and disease control	General Medicine and Clinical Pathophysiology	Yoshimoto Kiyomi	<ol style="list-style-type: none"> <li>1. Theoretical analysis of the practice of general medicine</li> <li>2. Study for evaluating clinical significance of the physical examination</li> <li>3. Pathophysiological analysis for various diseases based on hemostatic perspective</li> <li>4. Pathophysiological analysis for various diseases using experimental mouse model</li> <li>5. Study for the pathophysiology of collagen disease</li> <li>6. Study for the practice of disaster medicine</li> <li>7. Research on the Effectiveness of Primary Care in Health Care</li> <li>8. Clinical research on epidemiology, diagnosis, and treatment in primary care settings</li> <li>9. Research on health care delivery systems regarding team building, information sharing, and service delivery systems</li> <li>10. Educational research on medical education and lifelong learning</li> </ol>
	Oral and Maxillofacial Surgery	Yamakawa Nobuhiro Yagyuu Takahiro	<ol style="list-style-type: none"> <li>1. Minimally invasive surgery and functional preservation for oral cancer patients</li> <li>2. Preoperative adjuvant therapy for advanced oral cancer</li> <li>3. Clinical and basic study on prevention of ARONJ</li> <li>4. Malignant transformation of oral precancerous lesions</li> <li>5. Reconstruction of oral and maxillofacial region</li> <li>6. Diagnosis and treatment for temporomandibular joint disorders</li> <li>7. Oral management in patients with dry mouth</li> <li>8. Oral management in patients with systemic disease</li> <li>9. Sedative control during oral surgery</li> <li>10. Clinical study on speech, swallowing and masticatory disorders</li> <li>11. Fixation of maxillary and mandibular bone fragments based on biomechanics</li> <li>12. Development of maxillofacial structure</li> <li>13. Regenerative medicine of maxillofacial bone using tissue engineering</li> </ol>
	Emergency Medical Science	Fukushima Hidetada	<ol style="list-style-type: none"> <li>1. Study of prehospital care for out-of-hospital arrest</li> <li>2. Development of rapid identification for blood stream infection</li> <li>3. Study of coagulation abnormalities in emergency and critical care</li> <li>4. Geospatial analysis of prehospital emergency care</li> <li>5. Immediate implementation of hemodialysis for acute kidney injury</li> </ol>



Field	Specialized Subject	Professor	Research Field
Clinical medicine for organ and disease control	Diagnostic Pathology	Yoshizawa Akihiro  Takeda Maiko  Uchiyama Tomoko	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 * Molecular biological studies on tumor development and progression * Study for Epigenetic tumor-related genes
	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. Pedagogy for rehabilitation medicine 2. Impairments-driven cancer rehabilitation 3. Physical activity in the frail elderly 4. A novel multimodal prehabilitation program for perioperative patients 5. The fun in the acquisition process of the activity 6. Activity-included life style model for extension of healthy life expectancy
	Clinical Laboratory Medicine	Yamazaki Masaharu	1. Research on usability of clinical examination 2. Research on prevention of reactivation of hepatitis B virus infection 3. Research on pathophysiology of heart failure using echocardiography

Field	Specialized Subject	Professor	Research Field
Clinical medicine for organ and disease control	Bloodstream Reconstructive Medicine	Matsumoto Masanori Sakai Kazuya	<ol style="list-style-type: none"> <li>1. Analysis of thrombotic maicroangiopathy (TMA) <ul style="list-style-type: none"> <li>• Japanese TMA registry</li> <li>• ADAMTS13 gene analysis in congenital thrombotic thrombocytopenic purpura (cTTP or Upshaw-Schulamn syndrome)</li> <li>• Development of novel therapeutic agents for TTP</li> <li>• Analysis of pathophysiology in patients with TMA associated with hematopoietic cell transplantation</li> </ul> </li> <li>2. Diagnosis and treatment of von Willebrand disease</li> <li>3. Analysis of acquired von Willebrand syndrome (AVWS) <ul style="list-style-type: none"> <li>• AVWS associated with myeloproliferative neoplasm</li> <li>• AVWS associated with cardiovascular disorders</li> <li>• Development of a therapeutic anti-ADAMTS13 inhibitory antibody for AVWS</li> </ul> </li> <li>4. Dynamic analysis of von Willebrand factor (VWF)/ADAMTS13 axis under sheer stress</li> <li>5. Research on VWF/ADAMTS13 axis in hepatic disorders.</li> </ol>
	Infectious Diseases	Kasahara Kei	<ol style="list-style-type: none"> <li>1. COVID-19 infection</li> <li>2. Interaction between host and microorganism in infectious diseases</li> <li>3. Host defense and its control in respiratory tract infection</li> <li>4. Biological activity of antimicrobial agents against resistant bacteria</li> <li>5. Pathogenesis and treatment of HIV infection</li> <li>6. Early diagnosis and multidisciplinary treatment of deep-seated fungal diseases</li> <li>7. Molecular epidemiology of drug resistant bacteria</li> <li>8. Appropriate use of antimicrobial agents</li> <li>9. Prevention of healthcare-associated infections</li> <li>10. Social implementation of infection prevention technologies</li> </ol>
	Clinical and Translational Science	Kasahara Masato Asada Kiyoshi Kurakami Hiroyuki Takeuchi Jiro	<ol style="list-style-type: none"> <li>1. A research regarding the implementation and support of the industry-initiated clinical trials and investigator-initiated clinical trials</li> <li>2. A research regarding the implementation and support of the post-marketing clinical trials</li> <li>3. A research regarding the implementation and support of the cohort study</li> </ol>

Field	Specialized Subject	Professor	Research Field
Clinical medicine for organ and disease control	Laboratory of Advanced Technology for Interventional Radiology	Anai Hiroshi	<p>The aim of our laboratory is to investigate advanced and novel technology for interventional radiology.</p> <ol style="list-style-type: none"> <li>1. Fundamental research of percutaneous ablation</li> <li>2. Fundamental and innovative research of devices for interventional radiology</li> <li>3. Research and development of image guidance</li> <li>4. Clinical application of new technology for interventional radiolog</li> </ol>
	Proton Beam Radiation Oncology	Yoshimura Hitoshi	<ol style="list-style-type: none"> <li>1. Research on the range calculation with dual energy CT in proton radiotherapy</li> <li>2. Research on the range measurement in patients with off-line PET</li> <li>3. Research on the relative biological effectiveness of proton beams</li> <li>4. Research on the effect of neutron in proton radiotherapy</li> <li>5. Research on the inter-fractional variation measurement with in-room CT</li> <li>6. Research on the variation of the bladder volume estimation between in-room CT and echography</li> <li>7. Research on the robust treatment planning of proton radiotherapy</li> <li>8. Research on the dose distribution comparison between proton radiotherapy and photon radiotherapy</li> </ol>
	Medical Sensing Technology	Yamamoto Kouhei Kodama Hidekazu	<ol style="list-style-type: none"> <li>1. Mechanism of bone, cartilage and air conductions hearing and optimum of cartilage conduction hearing aids.</li> <li>2. Development of vital signal sensing methods utilizing electro-acoustic transducers combined with hearing aids.</li> </ol>

## 受験許可願

受験希望者	国籍		住所	
	ふりがな			
	氏名			
	生年月日		年 月 日	生

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いたします。

年 月 日

奈良県立医科大学長 殿

受験希望者 氏名 \_\_\_\_\_

# 履 歴 書

ふりがな 氏 名 生年月日				性 別
				男・女
国 籍		現住所 (TEL)		
学 歴 (高校卒業 から記入)	年 日			
免 許	種類	(番号 )	取得年月日	年 月 日
学 位	称号	(番号 )	取得年月日	年 月 日
職 歴	年 月 日			
賞 罰				

上記のとおり相違ありません。

# 身元保証書

奈良県立医科大学長 殿

国 籍

氏 名

生年月日 年 月 日生

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

住 所

氏 名（自署）

電 話

職 業

本人との関係

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）

		※受験番号	第 号
ふりがな			
氏名			性別 男 女
生年月日	年 月 日生	満年齢	才
出身大学名	年 月 日卒業、卒業見込		
医師国家試験	年 月 日合格		
志望専攻	第一志望	専攻 (科目: )	領域 (学)
	第二志望	専攻 (科目: )	領域 (学)
外国語試験受験科目	英 語		
連絡先	〒  TEL		
その他の連絡先	ふりがな		
	氏名		
	住所	〒  TEL	
<p>貴学大学院医学研究科に入学を志望しますので所定の書類を添えて提出いたします。</p> <p style="text-align: right;">年 月 日</p> <p>奈良県立医科大学長 殿</p> <p style="text-align: right;">氏名（自署）</p>			

※は記入しないこと

奈良県立医科大学大学院医学研究科  
(第 次)  
受 験 票

※受験番号	
ふりがな	
氏 名	
	科 目 名
第一志望	
第二志望	
外国語	英 語
この票を受験中は必ず机の上に置くこと	

※は記入しないこと

奈良県立医科大学大学院医学研究科  
(第 次)  
写 真 票

※受験番号	
ふりがな	
氏 名	
<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;"><p>出願前3ヶ月以内に撮影した正面上半身無帽背景なし(縦4cm×横3cm)の写真(裏面に撮影年月日及び氏名を記入すること)を貼ってください</p></div>	

※は記入しないこと



受験番号

※

## 入学検定料納付証明書貼付台紙

ふりがな  
氏名

入学検定料納付証明書貼付欄

こちらに貼付ください。

注) ・振込証明書等を貼付欄に貼付のこと。

・※印欄は記入しないこと。

宛名票

<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
殿
※

(注意)

1. 合格通知書等送付先を記入してください。
2. ※印欄は記入しないでください。

宛名票

<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
殿
※

(注意)

1. 合格通知書等送付先を記入してください。
2. ※印欄は記入しないでください。

宛名票

<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
殿
※

(注意)

1. 合格通知書等送付先を記入してください。
2. ※印欄は記入しないでください。