

## AY2026 List of Academic Supervisors

Graduate School of Medicine, The University of Tokyo

Master's Program

P.2- Health Sciences and Nursing

P.3- School of International Health

P.4- Medical Science

P.10- Professional Degree Course, School of Public Health

(Students receive Master of Public Health upon completion)

The contents may be updated. Please refer to our website

<https://www.m.u-tokyo.ac.jp/english/daigakuin/apply/ryugaku.html> for the latest version.

## Master's Program in Health Sciences and Nursing

- (1) Students will be instructed by a faculty member (a professor or an associate professor) of the Department into which they are accepted.
- (2) The names and research areas of possible supervisors each major field of study are shown below. Faculty members due to retire at the end of this academic year may not be available to teach.

Department	Faculty		Research Fields	Affiliation (Department)
Nursing Administration	Professor	Mari Ikeda (concurrent)	Nursing administration, Nursing Quality Assessment and Policy Evaluation	Preventive and Administrative Nursing
Advanced Clinical Nursing	Professor	Mari Ikeda (concurrent)	Function and roles of nursing, expertise in nursing skills	Preventive and Administrative Nursing
Gerontological Home Care and Long-term Care Nursing (GHLN)	Professor Associate Professor	Noriko Yamamoto-Mitani Maiko Noguchi	Gerontological nursing (homecare, long-term care), quality assurance of long-term care/homecare, dementia-friendly community, community care system development	Clinical Nursing
Palliative Care Nursing	Professor Associate Professor	Noriko Yamamoto-Mitani (concurrent) Maiko Noguchi	End-of-life care of older persons, practice-based nursing knowledge development	Clinical Nursing
Community Health Nursing/Public Health Nursing	Associate Professor	Kyoko Yoshioka-Maeda	Community health nursing/Public health nursing, community healthcare system development, policy/program development, tacit knowledge of public health nurses, Assessment and prevention measures of developmental dysplasia of the hip	Preventive and Administrative Nursing
Public Health Nursing				
Family Nursing	Professor	Mari Ikeda	Family nursing /child nursing in general, development of family assessment and family nursing-style approach, mental health during family formation, family QOL, transitional support for patients with childhood-onset chronic diseases, prevention of abuse, and gender and nursing	Preventive and Administrative Nursing
Psychiatric Nursing	Associate Professor	Yuki Miyamoto  Daisuke Nishi (concurrent)	Psychiatric nursing, home-visit nursing, social rehabilitation, recovery, co-production	Clinical Nursing
	Professor		Mental health epidemiology, perinatal mental health, traumatic stress, resilience ※Non-regular (research) students are not acceptable	School of Public Health
Gerontological Nursing	Professor	Gojiro Nakagami	Gerontological nursing, nursing skills specific to the older population (malnutrition, deglutition disorders, incontinence), wound care management (pressure ulcer, lower extremity ulcer)	Clinical Nursing
Wound Care Management	Professor	Gojiro Nakagami (concurrent)		
Midwifery and Women's Health	Professor	Megumi Haruna	Life and health during pregnancy and the puerperium, improvement of care at delivery based on physiological rationale, health issues concerning women's life cycles	Clinical Nursing
Nursing Data Science	Project Professor Project Associate Professor	Kenshi Hayashida  Ai Tomotaki	Data Science, Database Research, Real-world Data, Medical Informatics/Nursing Informatics, Healthcare Management/Health Economics, Evidence-based Policy Making/Evidence-Informed Policy Making, Evidence-based Healthcare	Social Cooperation Program
Next Generation Wound Care Development	Project Associate professor	Yuko Mugita	Development of innovative next-generation wound care to promote healing of hard-to-heal wounds; integrated studies of bioengineering nursing, materials science, molecular biology, bioinformatics, and clinical engineering	Social Cooperation Program
Radiation Health Sciences			No applications accepted this year.	

As of 2025 May

## Master's Program in School of International Health

The faculty members who can serve as academic supervisor and their research areas are shown below. Acceptance will be decided based on the review at the faculty committee at the Graduate School of Medicine. Faculty members due to retire at the end of this fiscal year may not accept students.

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(Names of the department are shown in **bold** characters)

### **Community and Global Health** (in International Social Medicine)

[Under the process of selection]

### **Global Health Policy** (in International Social Medicine)

Prof. Masahiro Hashizume: Climate change and health, environmental epidemiology, planetary health

Dr. Chris Fook Sheng Ng (Associate Professor): Environmental health data science, statistical modeling of health risks associated with environmental exposures to climate and air quality factors

### **Human Genetics** (in International Biomedical Science)

Prof. Akihiro Fujimoto: Human genetics, population genetics, cancer genomics, human evolution

Dr. Motoko Unoki (Associate Professor): Molecular Biology, Cell Biology, Biochemistry: Molecular pathogenesis of diseases with epigenetic changes, cross-disciplinary research to elucidate the mechanisms between epigenetics and DNA repair system

### **Developmental Medical Sciences** (in International Biomedical Science)

Prof. Moi Meng Ling: Tropical and emerging virus, immunology, epidemiology, field research, vaccine, diagnostics and therapeutics development

Dr. Satoshi Taniguchi (Associate Professor): Research on diagnosis, prevention, and treatment of emerging and reemerging infectious diseases. Development of animal models for infectious diseases

### **Human Ecology** (in International Biomedical Science)

Prof. Masahiro Umezaki: The roles of gut microbiota in nutritional adaptation and the evolution of human populations, mitigation of the health impacts of aging and depopulation at community/national scales, behavioral and nutritional adaptation of human populations in Asia and Oceania, medical anthropology

Dr. Shoko Konishi (Associate Professor): Health impact assessment of exposure to heavy metals, air pollution, unhealthy urban structures, and ecosystem degradation; Biological and behavioral explanations of low fertility and fecundity during the post-demographic transition period

### **Biomedical Chemistry** (in International Biomedical Science)

Prof. Tomoyoshi Nozaki: Biochemistry, molecular biology, molecular parasitology: metabolic control mechanisms, parasitic phenomena, analysis of infection and adaptation, design and development of anti-infective drugs

Dr. Yoh-ichi Watanabe (Associate Professor): Analysis and application of RNA and RNA-binding proteins, analysis and application of extremophiles

### **Global Environmental Health** (in International Social Medicine)

Dr. Yoonhee Kim (Associate Professor): Environmental health, population health, health risk assessment of climate change, climate variability, and air pollution, climate informed infectious disease prediction modeling, seasonality of suicide

### **International Cooperation for Medical Education** (International Cooperation for Medical Education)

Prof. Masahiro Hashizume (Chief of the School of International Health)

Dr. Hirotaka Onishi (Lecturer): Medical education, health professional education, learner assessment, programme evaluation, clinical education, clinical reasoning, international cooperation in health professional education

Graduate School of Medicine, The University of Tokyo  
Master's Program of Medical Science  
List of Research Supervisors (as of June, 2025)

## Molecular Cell Biology

Major Field of Study	Faculty	Research Fields	Affiliation (Department)
Cell Biology	Professor Yasushi Okada e-mail: yokada@m.u-tokyo.ac.jp tel: 03-5841-0959	Physical biology of the cell, Live cell imaging, Single-molecule measurement	Cell Biology and Anatomy
Structural Biology	Professor Masahide Kikkawa e-mail: mkikkawa@m.u-tokyo.ac.jp tel: 03-5841-3338	Cell biology of epithelium using cryo-electron tomography	Cell Biology and Anatomy
Cellular Neurobiology	Professor Shigeo Okabe e-mail: okabe@m.u-tokyo.ac.jp tel: 03-5841-1928	Molecular mechanisms for the formation and maintenance of central neural networks	Cell Biology and Anatomy
Advanced Structural Studies	Professor Radostin Danev e-mail: rado@m.u-tokyo.ac.jp tel: 03-5841-3413	Structural biology of molecules and cells by cryo-electron microscopy	Advanced Structural Studies
Molecular Biology	Professor Noboru Mizushima e-mail: nmizu@m.u-tokyo.ac.jp tel: 03-5841-3440	Molecular mechanisms and physiological roles of autophagy	Biochemistry and Molecular Biology
Physiological Chemistry and Metabolism	Professor Makoto Murakami e-mail: makmurak@m.u-tokyo.ac.jp tel: 03-5841-1431	Biology of lipid metabolism in health science	Biochemistry and Molecular Biology
Genome Informatics	Professor Yukinori Okada e-mail: yuki-okada@m.u-tokyo.ac.jp tel: 03-5841-1860	large-scale genomics, statistical genetics, bioinformatics	Biochemistry and Molecular Biology
Molecular Biomedicine for Pathogenesis			

## Functional Biology

Major Field of Study	Faculty	Research Fields	Affiliation (Department)
Integrative Physiology	Professor Kenichi Ohki e-mail: kohki@m.u-tokyo.ac.jp tel: 03-5841-3459	Neural circuits and information processing in visual cortex, two-photon calcium imaging	Physiology
Cellular and Molecular Physiology	Professor Masanori Matsuzaki e-mail: mazkim@m.u-tokyo.ac.jp tel: 03-5841-3467	Prefrontal cortex, decision making, motor learning, BMI	Physiology
Neurophysiology			
Cellular and Molecular Pharmacology	Professor Kenzo Hirose e-mail: kenzoh@m.u-tokyo.ac.jp tel: 03-5841-3414	Principles of neuronal functions, cell physiology, pharmacology, chemical biology	Pharmacology
Systems Pharmacology	Professor Hiroki R. Ueda e-mail: uedah-tyk@umin.ac.jp tel: 03-5841-3415	Systems and synthetic biology of sleep-wake cycles	Pharmacology
Structural Physiology			

# Pathology, Immunology and Microbiology

Major Field of Study	Faculty	Research Fields	Affiliation (Department)
Pathology and Diagnostic Pathology	Professor Tetsuo Ushiku e-mail: usikut-ky@umin.ac.jp tel:03-5841-3344	Gastrointestinal pathology, diagnostic pathology	Pathology
	Professor Tappei Takada e-mail: tappei-ky@g.ecc.u-tokyo.ac.jp tel:03-3815-5411 (ex.30750)	Clinical Pharmacology, Clinical Pharmacokinetics, Lifestyle-related Diseases and Transporters	Pharmaceutical
Molecular Pathology	Professor Yasuhiro Yamada email:yyamada@m.u-tokyo.ac.jp tel:03-5841-3585	Dissecting epigenetic regulation in mammalian development and diseases	Pathology
	Associate Professor Yosuke Yamada email:yoyamada@m.u-tokyo.ac.jp tel:03-5841-3411	Thymic pathology, Experimental pathology	Pathology
Microbiology	Professor Makoto Takeda email:mtakeda@m.u-tokyo.ac.jp tel:03-5841-3408	Pathogenicity of respiratory viruses	Microbiology
	Associate Professor Hiroshi Kato email:hirokato@m.u-tokyo.ac.jp tel:03-5841-3404	Host-virus interaction in paramyxovirus infection	Microbiology
Infection Control and Prevention	Professor Takeya Tsutsumi email:takeyatsutsumi@g.ecc.u-tokyo.ac.jp tel:03-3815-5411 (ex.35335)	Molecular mechanism of pathogenesis in hepatitis virus infection	Microbiology
Immunology	Professor Hiroshi Takayanagi e-mail: takayana@m.u-tokyo.ac.jp tel: 03-5841-3375	Research on pathogenesis of autoimmune diseases and osteoimmunology	Immunology
Animal Resources	Professor Atsu Aiba e-mail: aiba@m.u-tokyo.ac.jp tel: 03-5841-3638	Molecular mechanisms underlying neuronal development, Generation of mutant marmosets as model animals with psychiatric disorder	CDBIM – Animal Resources

# Radiology and Biomedical Engineering

Major Field of Study	Faculty	Research Fields	Affiliation (Department)
System Physiology	Associate Professor Kimiko Yamamoto e-mail: kyamamoto@m.u-tokyo.ac.jp tel: 03-5841-3564	Mechanobiology, biomechanics, circulatory physiology	Biomedical Engineering
Biosystem Construction and Control			
Chemical Biology and Molecular Imaging	Professor Yasuteru Urano e-mail: uranokun@m.u-tokyo.ac.jp tel: 03-5841-3601	Chemical biology (fluorescence-, sensitizer-, and luminescence-based probes) Molecular imaging, In vivo tumor imaging and therapy	Graduate School of Pharmaceutical Sciences
	Associate Professor Ryosuke Kojima e-mail: kojima@m.u-tokyo.ac.jp tel: 03-5841-3568	Synthetic biology (engineering cells and extracellular vesicles), Chemical Biology (fluorescence probes), protein engineering, cancer imaging and therapy	Biomedical Engineering
Biomaterials and Medical devices	Professor Kanako Harada e-mail: kanakoharada@g.ecc.u-tokyo.ac.jp tel: 03-5841-6289	Biomedical devices, Surgical robots, Surgical skill assessment	CDBIM – Biomedical devices

# Neuroscience

Neuropathology			
Neurochemistry	Professor Haruhiko Bito e-mail: hbito@m.u-tokyo.ac.jp tel: 03-5841-3559	Molecular mechanisms underlying long-term memory storage and plasticity, signal transduction of neurons	Basic Neuroscience
Child Neuropsychiatry			

## Social Medicine

Major Field of Study	Faculty	Research Fields	Affiliation (Department)
Preventive Medicine	Professor Shumpei Ishikawa e-mail: ishumi-prm@m.u-tokyo.ac.jp tel: 03-5841-3434	Cancer genomics, bioinformatics	Occupational, Environmental and Preventive Medicine
Microenvironmental and Metabolic Health Sciences	Professor Makoto Murakami e-mail: makmurak@m.u-tokyo.ac.jp tel: 03-5841-1431	Biology of lipid metabolism in health science	CDBIM – Microenvironmental and Metabolic Health Sciences
Medical Informatics	Associate Professor Takeshi Imai e-mail: imai@m.u-tokyo.ac.jp tel: 03-5841-3454	Medical AI, Medical bigdata analysis, Next-generation EHR, Standardization	CDBIM – Biomedical Informatics
Clinical Information Engineering	Professor Kayo Waki e-mail: kwaki-ky@m.u-tokyo.ac.jp tel: 03-5800-9129	Mobile health, telemedicine, clinical study, clinical epidemiology	Clinical Information Engineering

## Other Major Field

Major Field of Study	Faculty	Research Fields	Discipline
CDBIM: Center for Disease Biology and Integrative Medicine	Professor Yuichi Tei/ Ung-il Chung e-mail: tei@tetrapod.t.u-tokyo.ac.jp tel: 03-5841-8843	Skeletal biology and regenerative medicine, biomaterials science	Graduate School of Engineering
	Associate Professor Hironori Hojo e-mail: hojo@g.ecc.u-tokyo.ac.jp tel: 03-5841-1427	Skeletal biology and regenerative medicine	CDBIM – Clinical Biotechnology
Biomaterials and Medical devices	Professor Taichi Ito e-mail: itotaichi@g.ecc.u-tokyo.ac.jp tel: 03-5841-1425	Biomaterials, Hydrogels, Particles, Tissue engineering, Drug delivery	Graduate School of Engineering

CDBIM: Center for Disease Biology and Integrative Medicine

Cooperative Departments (Institute of Medical Science, Institute for Quantitative Biosciences)

Major Field of Study	Faculty	Research Fields	Affiliation (Department)
Molecular Biology	Professor Takashi Okada	Gene and cell therapy for neuromuscular disorders	IMSUT – Molecular and Medical Genetics
	Professor Makoto Nakanishi	Molecular biology of aging, Replication of non-genomic codes	IMSUT – Cancer Cell Biology
Structural Biology	Associate Professor Naoki Horikoshi	Epigenetics, Mechanism of Higher-Order Chromatin Structure	IQB – Chromatin Structure and Function
Cellular Neurobiology	Professor Katsuhiko Shirohige	Genome Structure and Function	IQB – Laboratory of Genome Structure and Function
	Professor Teruhiro Okuyama	Social neuroscience, Autism spectrum disorder (ASD)	IQB – Research Center for Cellular Dynamics
	Associate Professor Ryuichiro Nakato	Data-driven NGS analysis, detailed analysis of 3D structural data, Single-cell analysis	IQB – Computational Genomics
Pathology and Diagnostic Pathology			
Molecular Pathology	Professor Yoichi Furukawa	Elucidation of cancer development and progression mechanisms, genome analysis	IMSUT – The Advanced Clinical Research Center
	Professor Yuji Yamanashi	Intracellular signal transduction mechanism and molecular pathogenesis of disease caused by its collapse	IMSUT – Genetics
	Professor Tomoki Todo	Innovative cancer therapy development using genetically-engineered viruses	IMSUT – The Advanced Clinical Research Center
	Professor Tatsuhiro Shibata	Genomic understanding of human disease	IMSUT-The Human Genome Center
	Professor Mutsuhiro Takekawa	Regulatory mechanisms of cellular signaling pathways and their abnormalities in diseases	IMSUT – Cell Signaling & Molecular Medicine
	Professor Tomoji Mashimo	Genome editing, humanized animals, and gene therapy	IMSUT – Laboratory Animal Research Center
	Professor Emi Nishimura	Stem cell aging study for tissue regeneration	IMSUT – Aging and Regeneration
	Professor Satoshi Yamazaki	Application of stem cell regulation research to cell therapy and gene therapy	IMSUT – Cell Regulation
	Professor Hirohide Saito	Synthetic biology, Bioengineering, RNA, RNA-Protein complexes, iPS cells, Cell Regulation, Gene & cell therapy, Regenerative medicine	IQB - RNP Synthetic Biology and Biotechnology
	Associate Professor Akane Yamauchi	Cellular signal transduction mechanism and its dysregulation in diseases	IMSUT – Genetics
	Associate Professor Taeko Kobayashi	Adult neural stem cells and their quiescence regulation by proteostasis	IMSUT – Protein Metabolism
Surgical pathology	Professor Hideki Taniguchi	Regenerative medicine and transplantation surgery	IMSUT – Regenerative Medicine

Microbiology	Professor Tetsuro Matano	Elucidation of AIDS pathogenesis and vaccine development	IMSUT – AIDS Vaccine Development
	Associate Professor Takeshi Ichinohe	Regulation of immune responses to influenza virus infection	IMSUT – International Research Center for Infectious Diseases
Infection Control and Prevention	Professor Yasushi Kawaguchi	Research on mechanisms involved in the development of herpesviral pathogenicity	IMSUT – Molecular Virology
	Professor Kei Sato	Systems virology and experimental virology	IMSUT – Systems Virology
	Professor Atsushi Iwama	Epigenetics of hematopoietic stem cells and hematopoietic malignancies	IMSUT – Division of Stem Cell and Molecular Medicine
	Professor Ken Ishii	Basic and clinical studies of vaccine	IMSUT – Vaccine Science
	Professor Reiko Shinkura	Interaction of mucosal IgA and gut microbiota, Mechanism of immunoglobulin diversification	IQB – Immunology and Infection Control
	Professor Taku Okazaki	Molecular and cellular biology of autoimmunity and cancer immunity	IQB – Molecular Immunology
	Professor Cevayir Coban	Host-pathogen interactions	IMSUT – Division of Malaria Immunology
	Associate Professor Tokiko Nagamura-Inoue	Immunology and regenerative medicine of cord blood and cord-derived cells	IMSUT – Department of Cell Processing and Transfusion
	Associate Professor Il-mi Okazaki	Molecular and cellular biology of autoimmunity and cancer immunity	IQB – Molecular Immunology
Neurochemistry			

IMSUT: The Institute of Medical Science    IQB: Institute for Quantitative Biosciences

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**Professional Degree Course, School of Public Health**  
(Students receive Master of Public Health upon completion)

Major Field of Study	Faculty		Research Fields
Biostatistics	Professor	Yutaka Matsuyama	Biostatistics, Design and analysis of medical study, and Methodology of clinical trials
Social and Preventive Epidemiology	Professor	Kentaro Murakami	Nutritional epidemiology, behavioral nutrition, public health nutrition
Clinical Epidemiology and Health Economics	Professor	Hideo Yasunaga	Clinical epidemiology, designing clinical research, large healthcare database, causal inference, health economics, health technology assessment
	Associate Professor	Hiroki Matsui	Clinical epidemiology, designing clinical research, large healthcare database, causal inference, health economics, machine learning
Health Education and Health Sociology	Associate Professor	Masamitsu Kamada	Physical activity epidemiology, behavior change interventions and policies, and social marketing
Health and Social Behavior	Professor	Hideki Hashimoto	Health sociology, health economics
	Associate Professor	Keiko Murakami	Social epidemiology, social determinants of health, cohort studies
Biomedical Ethics	Professor	Eisuke Nakazawa	Public health ethics, research ethics, biomedical ethics, neuroethics, philosophy of science
Public Health/ Health Policy	Professor	Takahiro Higashi	Health services research, health policy and management, quality of care, survey research
	Associate Professor	Haruhiko Inada	Epidemiology, injury prevention, health policy, program evaluation
Clinical Information Engineering	Professor	Kayo Waki	m-Health, self management of disease using ICT, Health data management
Biomedical Informatics	Associate Professor	Takeshi Imai	Medical AI, Medical bigdata analysis, Standardization
Forensic Medicine	Professor	Yohsuke Makino	Forensic radiology, Forensic pathology
	Associate Professor	Suguru Torimitsu	Forensic anthropology, Forensic pathology
Global Environmental Health	Associate Professor	Yoonhee Kim	Environmental epidemiology, health risk assessment of climate change and variability and/or air pollution
Human Resource development for Health	Professor	Hideo Yasunaga (Department chair)	Medical education, health professional education, learner assessment, programme evaluation, clinical education, clinical reasoning, international cooperation in health professional education
	Lecturer	Hiroataka Onishi	