

2024 FACULTY & FIELDS OF RESEARCH
GRADUATE SCHOOL OF PHARMACEUTICAL SCIENCES, THE UNIVERSITY OF TOKYO

Department of Pharmaceutical Sciences
Department of Pharmacy

Faculty	Description of Research Field	Name of Laboratory
Graduate School of Pharmaceutical Sciences		
Prof. OHWADA, Tomohiko	Organic Chemistry, Structural Organic Chemistry, Computational Chemistry, Medicinal Chemistry	Organic and Medicinal Chemistry
Assoc.Prof. OTANI, Yuko	Organic Chemistry, Peptide Chemistry of Unnatural Amino Acids, Computational Peptide Chemistry	
Prof. INOUE, Masayuki	Organic Chemistry, Natural Product Synthesis, Bioorganic Chemistry	Synthetic Natural Products Chemistry
Lec. NAGATOMO, Masanori	Organic Chemistry, Natural Product Synthesis, Computational Chemistry	
Assoc.Prof. KANAI, Motomu	Organic Synthesis, Catalysis, Artificial Catalysis in Cells	Synthetic Organic Chemistry
Assoc.Prof. KAWASHIMA, Shigehiro	Chemical Biology, Artificial Catalysis in Cells, Chromosome Biology, Epigenome	
Prof. ABE, Ikuro	Natural Products Chemistry, Chemical Biology, Bioorganic Chemistry, Synthetic Biology	Natural Product Chemistry
Assoc.Prof. MORI, Takahiro	Natural Products Chemistry, Chemical Biology, Structural biology, Enzyme Engineering	
Prof. UCHIYAMA, Masanobu	Organic Chemistry, Elements Chemistry, Theoretical Chemistry, Physical Organic Chemistry	Advanced Elements Chemistry
Assoc.Prof. MIYAMOTO, Kazunori	Organic Chemistry, Elements Chemistry, Theoretical Chemistry, Physical Organic Chemistry	
Project Assoc. Prof. NAKAJIMA, Masaya	Transition Metal Chemistry, Photochemistry, Theoretical Chemistry, Synthetic Organic Chemistry, Natural Product Chemistry	
Prof. URANO, Yasuteru	Chemical Biology, Development of Photo-functional Probes, In Vivo Fluorescent Tumor Imaging	Chemistry and Biology
Prof. FUNATSU, Takashi	Biophysics: Imaging and Manipulation of Single Biomolecules	Bio-Analytical Chemistry
Assoc.Prof. TSUNODA, Makoto	Bio-analytical Chemistry, Separation Science, Micro Total Analysis System	
Prof. TAKEUCHI, Koh	Structural Biology, NMR, Analysis and manipulation of function-related dynamics	Physical Chemistry
Assoc.Prof. UEDA, Takumi	Structural biology, NMR analyses of protein structure and dynamics	
Prof. SHIMIZU, Toshiyuki	Structural biology, protein crystallography	Protein Structural Biology
Assoc.Prof. OHTO, Umeharu	Structural biology, Regulation mechanism of receptor activation	
Prof. AOKI, Junken	Lipid Biology, Analytical chemistry of lipids, Pathophysiological roles of lysophospholipid mediators, Elucidation of biological significance of phospholipid fatty acid diversity	Health Chemistry
Assoc.Prof. KONO, nozomu	Lipid Biology, Homeostatic regulation of membrane lipids	
Prof. KITAGAWA, Daiju	Cell Biology, Cell Genetics, Cell Division, non-coding RNA	Physiological Chemistry
Lec. FUKUYAMA, Masamitsu	Molecular genetics of nutrient responses	
Project Lec. HATA, Shoji	Cell Biology, Cell Genetics, Cell Division, Cytoskeleton	
Prof. GOTOH, Yukiko	Molecular and cellular biology, neural development, stem cell, signal transduction	Cell Biology
Assoc.Prof. KAWAGUCHI, Daichi	Molecular neurobiology, Neural development, Neurodevelopmental disorder, Stem cell	
Project Assoc. Prof. OISHI, Koji	Neural development, neuroanatomy, reprogramming	
Prof. MIURA, Masayuki	Physiological roles of programmed cell death, Establishment of cell society, Metabolic regulation of growth, aging and regeneration	Genetics
Lec. NAKAJIMA, Yuichiro	Developmental cell biology, Tissue homeostasis, Environmental responses, Cell plasticity	
Prof. ICHIJO, Hidenori	Molecular and Cellular Biology, Stress Signaling	Cell Signaling
Assoc.Prof. NAGURO, Isao	The laboratory of Cell Signaling will not be looking for students this time.	

Faculty	Description of Research Field	Name of Laboratory
Graduate School of Pharmaceutical Sciences		
Prof. MURATA, Shigeo	Intracellular protein degradation, Proteostasis	Protein Metabolism
Prof. HORI, Shohei	Immunological tolerance and homeostasis, immune regulation, inflammation	Immunology and Microbiology
Assoc.Prof. SETOGUCHI, Ruka	Immunology, Immunological memory, immunological homeostasis, host defense system	
Institute of Medical Science		
Prof. IWAMA, Atsushi	hematopoietic stem cells, hematological malignancy, epigenome	Cellular and molecular chemistry
Institute for Quantitative Biosciences		
Prof. SHINKURA, Reiko	Immunology, Mucosal immunity, Immunoglobulin gene diversification, Gut microbiota	Applied Immunology
Prof. OAKADA, Yuki	Germ cell epigenetics	Pathology and Development
Assoc.Prof. KISHI, Yusuke	Epigenetic regulation of neural cells	Molecular Neurobiology
Radioisotope Center		
Prof. AKIMITSU, Nobuyoshi	Functional analysis of noncoding RNAs in mammalian cells, Development of novel technologies for nucleic acid medicines, Molecular mechanism of stress responses, DNA damage response, Regulation of gene expression through RNA degradation code, Developmnet of novel live imaging methods by using radioisotopes	Laboratory of Nucleic acids research
Graduate School of Pharmaceutical Sciences		
Prof. KUSUHARA, Hiroyuki	Pharmacokinetics, Functional analysis and pharmacogenomics of drug transporters, Kinetic analysis of the drug interactions, Drug delivery to the brain	Molecular Pharmacokinetics
Assoc.Prof. HAYASHI,Hisamitsu	Development of novel diagnostic and therapeutic approaches for pediatric liver diseases, Hepatology, Clinical pharmacology	
Prof. IKEGAYA, Yuji	Brain circuitology, Systems pharmacology, Artificial intelligence	Chemical Pharmacology
Assoc.Prof. KOYAMA, Ryuta	Neuropharmacology, Developmental neurobiology, Glial biology	
Prof. TOMITA, Taisuke	Pathobiochemical analysis of Alzheimer and other neurological diseases, Therapeutic approaches by modulation of proteases and vesicular trafficking, glial cell-targeted drug	Neuropathology and Neuroscience
Assoc.Prof. HORI, Yukiko	Pathobiochemical and therapeutical analysis for amyloid in Alzheimer and other neurodegenerative disease	
Project Assoc. Prof. SATO, Hiroki	Drug Lifetime Management (Drug Fostering and Evolution), Drug Informatics, Clinical Pharmacy, Risk Management in Community Pharmacy	Drug Lifetime Management
Faculty of Medicine University Hospital (Department of Pharmacy & Clinical Research Support Center)		
Prof. TAKADA, Tappei	Clinical Pharmaceutical Sciences, Clinical Pharmacology, Clinical Pharmacokinetics, Lifestyle-related Diseases and Transporters	Department of Clinical Pharmacokinetics
Lec. YAMANASHI, Yoshihide	Analysis of lipid behaviors in the body, Functional analysis of lipid transporters, Clinical Pharmacokinetics	
Lec. HONMA, Masashi	Bone Biology, Systems Pharmacology, Monoclonal Antibody Engineering	
Graduate School of Medicine		
Prof. IWATSUBO, Takeshi	N D The laboratory of Neuropathology will not be looking for students this time.	Neuropathology
Graduate School of Pharmaceutical Sciences		
Assoc.Prof. ONO, Shunsuke	Pharmaceutical regulation, pharmaceutical R&D, health economics, pharmacoepidemiology, clinical evaluation	Pharmaceutical Regulatory Science
Prof. MIURA, Masayuki	P The laboratory of Health Economics and Outcomes Research will not be looking for students this time.	

As of May, 2023