

## List of Faculty Members, Graduate School of Life Science(As of June 1, 2020)

### Transdisciplinary Life Science Course, Division of Life Science

Laboratory	Supervisors		Research Topics
Bioinformation and Molecular Science	Professor	Min Yao	Protein, nucleic acid, translational control, signal transduction, infection regulation, disease related factor, X-ray/neutron structural biology, quantum biology, protein crystallography, computer science, protein science, biophysics <a href="https://altair.sci.hokudai.ac.jp/g6/index-e.html">https://altair.sci.hokudai.ac.jp/g6/index-e.html</a>
	Associate Professor	Toyoyuki Ose	
	Specially Appointed Assistant Professor	Jian Yu	
Bioinformation and Molecular Science	Associate Professor	UEHARA Ryota	Cell division, ploidy, cytoskeleton, motor protein, self organization, cancer, aging, liver disease, microscopic analysis, biochemistry, molecular biology, cell culture, mouse model, transcriptome, mathematical modeling, compound screen <a href="https://tenure-track.cris.hokudai.ac.jp/lab/uehara/">https://tenure-track.cris.hokudai.ac.jp/lab/uehara/</a>
	Associate Professor Assistant Professor	NAKAOKA Shinji YAMAGUCHI Ryo	mathematical biology, systems biology, bioinformatics, microbial ecology, precision medicine, multi-omics, mathematical modeling, machine learning, big data analysis <a href="https://altair.sci.hokudai.ac.jp/infmcb/index-e.html">https://altair.sci.hokudai.ac.jp/infmcb/index-e.html</a>
Biomaterials Science	Professor Lecturer Assistant Professor	MONDE Kenji TANIGUCHI Tohru MURAI Yuta	Chemical Biology, Chirality, Organic Synthesis, Inhibitors, Vibrational Circular Dichroism, Helix, Lipid Mediator, Glycoconjugate, Medicinal Chemistry <a href="https://altair.sci.hokudai.ac.jp/infchb/">https://altair.sci.hokudai.ac.jp/infchb/</a>
	Professor Associate Professor Assistant Professor	TAMAOKI Nobuyuki Yuna Kim MATSUO Kazuya	molecular machine, motor protein, photochromic compound, azobenzene, liquid crystal, self-organization, inter-molecular interaction, organic synthesis, nano bio-machine, single molecular measurement, chirality <a href="http://tamaoki.es.hokudai.ac.jp/english/index.html">http://tamaoki.es.hokudai.ac.jp/english/index.html</a>
Functional Cellular Science	Professor Associate Professor	AYABE Tokiyoshi NAKAMURA Kiminori	innate immunity, antimicrobial peptide, mucosal immunity, intestinal epithelial cell, Paneth cell, alpha-defensin, stem cell, intestinal microbiota, intestinal environment, inflammatory bowel disease, lifestyle diseases, food and medicine, preventive medicine, therapeutics <a href="https://altair.sci.hokudai.ac.jp/infsig/english/">https://altair.sci.hokudai.ac.jp/infsig/english/</a>
	Professor Lecturer	Masataka Kinjo Akira Kitamura	Fluorescence Correlation Spectroscopy, Fluorescence Cross Correlation Spectroscopy, single molecule detection, ALS, molecular interaction, Live cell imaging, FCS, FCCS, C. elegans <a href="https://altair.sci.hokudai.ac.jp/infmcd/English/top_eng.html">https://altair.sci.hokudai.ac.jp/infmcd/English/top_eng.html</a>

## Transdisciplinary Life Science Course, Division of Life Science

Laboratory	Supervisors		Research Topics
Functional and Regulatory Life Science	Professor Professor	NISHIMURA Shin-Ichiro HINOUE Hiroshi	Chemical biology, Medicinal chemistry, Glycomedicine, Automated glycosynthesis, Glycomics, Glycobiology, Biomarker discovery, Dynamic epitope, Glycopeptide, Antibody drug, Glycoconjugates probe, Microarray <a href="https://altair.sci.hokudai.ac.jp/g4/index.html">https://altair.sci.hokudai.ac.jp/g4/index.html</a>
	Professor	Toshiaki Koda	neurodegenerative disease, poly-glutamine disease, autophagy, model mice, embryonic engineering <a href="http://altair.sci.hokudai.ac.jp/infemb/index.html">http://altair.sci.hokudai.ac.jp/infemb/index.html</a>
Biomolecular Adaptation Science (Inter-field Cooperation with AIST)	Visiting Professor Visiting Professor	TSUDA Sakae KOMATSU Yasuo	Antifreeze protein, Ice-binding function, Snow mold fungi, Gene expression, Biomolecular NMR, X-ray structural analysis, Biodiversity, Cell-preservation peptide, Reporter Assay, 3D molecular structure, Gene detection, Nucleic acid drugs, Functional DNA/RNA, Molecular detection, Cell-function evaluation, Electrochemistry <a href="https://altair.sci.hokudai.ac.jp/g_renkei/top_e.html">https://altair.sci.hokudai.ac.jp/g_renkei/top_e.html</a> <a href="https://unit.aist.go.jp/bpri/bpri-bimo/research_kakusan.html">https://unit.aist.go.jp/bpri/bpri-bimo/research_kakusan.html</a>
	Visiting Associate Professor Visiting Associate Professor	KONDO Hidemasa HIRANO Yu	
Frontier Biomaterials Science Inter-Field Cooperation with National Institute for Material Science (NIMS)	Visiting Professor Visiting Associate Professor	HANAGATA Nobutaka YAMAZAKI Tomohiko	Nanomedicine, nanobiotechnology, protein engineering, nucleic acid-based drug, adjuvant, DNA aptamer, biosensor, immune system, comprehensive gene analysis, nanoparticle, DNA delivery, nanotoxicity <a href="https://www.nims.go.jp/hokudai/index_en.html">https://www.nims.go.jp/hokudai/index_en.html</a> <a href="https://life.sci.hokudai.ac.jp/en/tl/lab/frontier-biomaterials-science">https://life.sci.hokudai.ac.jp/en/tl/lab/frontier-biomaterials-science</a> <a href="http://www.nims.go.jp/group/nanomedicine/english/index.html">http://www.nims.go.jp/group/nanomedicine/english/index.html</a>

## Biosystems Science Course, Division of Life Science

Laboratory	Supervisors		Research Topics
Higher Order Cellular Functions	Professor Assistant Professor Assistant Professor	TANAKA Kazuma  MIOKA Tetsuo KISHIMOTO Takuma	cell polarity, phospholipid asymmetry, membrane traffic, flippase, yeast <a href="http://www.igm.hokudai.ac.jp/molint/index.html">http://www.igm.hokudai.ac.jp/molint/index.html</a>
	Professor Assistant Professor Assistant Professor	FUJITA Tomomichi  NARAMOTO Satoshi Ooikock Teh	plant, evolutionary development, stem cell, cell polarity, cell cycle, cell proliferation and differentiation, environmental stress, abscisic acid, moss, space utilization science, <i>Physcomitrella patens</i> , <i>Marchantia polymorpha</i> , <i>Arabidopsis thaliana</i> <a href="https://www.sci.hokudai.ac.jp/PlantSUGOIne_en/">https://www.sci.hokudai.ac.jp/PlantSUGOIne_en/</a>
	Associate Professor	WATAHIKI Masaaki	auxin, feedback gene regulation, live imaging, plant morphogenesis <a href="http://www.sci.hokudai.ac.jp/watahiki/mkwhp/index.html">http://www.sci.hokudai.ac.jp/watahiki/mkwhp/index.html</a>
	Professor	IGUCHI-ARIGA M. M. Sanae	protooncogene, mutagen, oxidative stress, cancer, neurodegenerative disease, cellular and molecular biology, proliferation, transformation, apoptosis <a href="http://www.agr.hokudai.ac.jp/emolb/index.html">http://www.agr.hokudai.ac.jp/emolb/index.html</a>
Environmental Life Science	Associate Professor	ITO Hidetaka	plants, epigenetics, transposon, environmental stress <a href="https://www.sci.hokudai.ac.jp/Cellfunction_Structure3/">https://www.sci.hokudai.ac.jp/Cellfunction_Structure3/</a>
	Professor Associate Professor	YAMAGUCHI Junji  SATO Takeo	environmental adaptation, ubiquitin signal, nutrient metabolism, signal transduction, nutrient stress, plant immunity, proteomics <a href="http://www.sci.hokudai.ac.jp/CSF2-web/en">http://www.sci.hokudai.ac.jp/CSF2-web/en</a>
	Associate Professor	CHIBA Yukako	mRNA stability, stress response, arabidopsis <a href="https://www.sci.hokudai.ac.jp/~yukako/">https://www.sci.hokudai.ac.jp/~yukako/</a>
	Associate Professor Assistant Professor Assistant Professor	TANAKA Ryouichi  ITO Hisashi TAKABAYASHI Atsushi	photosynthesis, chlorophyll, cyanobacteria, algae, higher plants, arabidopsis, plant molecular biology, plant biochemistry <a href="http://www.lowtem.hokudai.ac.jp/plantadapt/ayumi/">http://www.lowtem.hokudai.ac.jp/plantadapt/ayumi/</a>

## Biosystems Science Course, Division of Life Science

Laboratory	Supervisors		Research Topics
Behavior and System Control	Professor Assistant ProfessorAnimal	MIZUNAMI Makoto NISHINO Hiroshi	learning, olfaction, memory, insect, microbrain, neuroethology, physiology, genetics, pest control <a href="https://www.sci.hokudai.ac.jp/~mizunami/MICROB~2/">https://www.sci.hokudai.ac.jp/~mizunami/MICROB~2/</a> <a href="http://www.es.hokudai.ac.jp/labo/nishino/">http://www.es.hokudai.ac.jp/labo/nishino/</a>
	Professor	OGAWA Hiroto	brain, neuroscience, electrophysiology, imaging, information processing, neural circuit, coding, sensorimotor integration, insect <a href="https://www.sci.hokudai.ac.jp/~hogawa/English/">https://www.sci.hokudai.ac.jp/~hogawa/English/</a>
	Associate Professor Assistant Professor	WADA Kazuhiro Nina Patzke	<Kazuhiro Wada> vocal learning, critical period, epigenetics, neural activated gene, songbird, neuroethology, genome, behaviour, DNA methylation, stuttering ( <a href="http://www.wada-lab.org/">http://www.wada-lab.org/</a> ) <Nina Patzke> Comparative neuroanatomy, encephalization, large brains of whales and cetaceans, cognitive hypothesis, thermogenesis hypothesis ( <a href="https://patzkelab.org/author/ninapatzkegmxde/">https://patzkelab.org/author/ninapatzkegmxde/</a> )
	Associate Professor	SOMA Masayo	behavior, cognition, communication, bird song, learning, life history <a href="http://www.lfsci.hokudai.ac.jp/search/system/soma.html">http://www.lfsci.hokudai.ac.jp/search/system/soma.html</a>
	Associate Professor	AONUMA Hitoshi	Synthetic neuroethology, neurobiology, electrophysiology, biomechanics, robotics inspired biology, neurogenetics, neuromodulation, social behavior, aggression, ultra fast movement, insect <a href="http://ncmac2.es.hokudai.ac.jp/index.html">http://ncmac2.es.hokudai.ac.jp/index.html</a>
	Associate Professor	TANAKA Nobuaki	sensory processing, neuroendocrine system, Drosophila genetics, pygmy squid <a href="https://www.sci.hokudai.ac.jp/grp/tanaka/lab/index.html">https://www.sci.hokudai.ac.jp/grp/tanaka/lab/index.html</a>

## Biosystems Science Course, Division of Life Science

Laboratory	Supervisors		Research Topics
Reproductive and Developmental Sciences	Professor	KATSU Yoshinao	endocrinology, steroid hormone, nuclear receptor, thermoreceptor, evolution, endocrine disruptor <a href="https://www.repdev-katsu.jp/index.html">https://www.repdev-katsu.jp/index.html</a>
	Professor Assistant Professor Assistant Professor	KUROIWA Asato  YOSHIDA Ikuya MIZUSHIMA Shusei	sex determination, sex chromosome, X chromosome inactivation, fertilization, evolution, the spiny rat, chicken, quail, mouse <a href="https://sites.google.com/site/kuroiwagroup/home">https://sites.google.com/site/kuroiwagroup/home</a>
	Associate Professor	KITADA Kazuhiro	model animals, human diseases, genome modification, gene function, mouse, rat <a href="https://sites.google.com/site/kitadalab/">https://sites.google.com/site/kitadalab/</a>
	Associate Professor	KOTANI Tomoya	oocyte, embryonic development, maternal factor, real-time imaging, zebrafish, mouse
	Associate Professor	KIMURA Atsushi	transcription, epigenetics, gene regulation, long noncoding RNA, dual promoter-enhancer, reproduction, spermatogenesis, protease <a href="https://www.sci.hokudai.ac.jp/~akimura/Molecular/Welcome.APK.html">https://www.sci.hokudai.ac.jp/~akimura/Molecular/Welcome.APK.html</a>
	Associate Professor	OGIWARA Katsueki	ovary, ovulation, follicle selection, endocrine regulation, mouse, zebrafish, medaka <a href="https://www.sci.hokudai.ac.jp/~kogi/Reproductive2/Welcome.html">https://www.sci.hokudai.ac.jp/~kogi/Reproductive2/Welcome.html</a>

## Biomedical and Pharmaceutical Science Course, Division of Life Science

Fields	Supervisors		Research Topics
Biochemistry	Professor	KIHARA Akio	lipid, membrane, biochemistry, metabolism, lipid mediator, barrier formation <a href="http://www.pharm.hokudai.ac.jp/seika/index.html">http://www.pharm.hokudai.ac.jp/seika/index.html</a>
	Associate Professor	SASSA Takayuki	
	Assistant Professor	OHNO Yusuke	
RNA Biology	Professor	NAKAGAWA Shinichi	noncoding RNA, epigenetics, nuclear structures, RNA processing <a href="https://sites.google.com/site/hokudairnabiologyj/home">https://sites.google.com/site/hokudairnabiologyj/home</a>
	Lecturer	MAITA Hiroshi	
	Assistant Professor	YOKOI Saori	
	Assistant Professor	KURIHARA Misuzu	
Neuroscience	Specially Appointed Professor	SUZUKI Toshiharu	neuroscience, cell biology, genetics, synapse, aging, protein trafficking, synaptopathy, neurodegenerative diseases <a href="http://www.pharm.hokudai.ac.jp/shinkei/index.html">http://www.pharm.hokudai.ac.jp/shinkei/index.html</a>
	Associate Professor	TARU Hidenori	
Immunology	Professor	MATSUDA Tadashi	host defense, immunity, inflammation, infection, cytokine, oncogenesis, signal transduction <a href="http://www.pharm.hokudai.ac.jp/eisei/">http://www.pharm.hokudai.ac.jp/eisei/</a>
	Lecturer	MUROMOTO Ryuta	
	Lecturer	KASHIWAKURA Junichi	
Biomolecular Science	Assistant Professor	KITAI Yuichi	immunology, infectious disease, cell surface receptor, X-ray crystallography, protein engineering, biologics, drug discovery, chemical library screening, in silico screening, virology, microbiology <a href="http://convallaria.pharm.hokudai.ac.jp/bunshi/">http://convallaria.pharm.hokudai.ac.jp/bunshi/</a>
	Professor	MAENAKA Katsumi	
	Associate Professor	KUROKI Kimiko	
Natural Products Chemistry	Assistant Professor	FURUKAWA Atsushi	bioactive natural products, isolation, structure elucidation, stereochemistry, structure-activity relationship, molecular targets, biosynthesis, drug leads, bioprobes <a href="http://www.pharm.hokudai.ac.jp/tennen/index.html">http://www.pharm.hokudai.ac.jp/tennen/index.html</a>
	Professor	WAKIMOTO Toshiyuki	
	Assistant Professor	MATSUDA Kenichi	
	Assistant Professor	YOSHIMURA Aya	
Fine Synthetic Chemistry	Assistant Professor	Agustinus R. Uria	organic synthesis, organometallic chemistry, transition-metal catalysis, asymmetric catalysis, natural product synthesis, utilization of gaseous molecules, green chemistry <a href="http://gouka.pharm.hokudai.ac.jp/">http://gouka.pharm.hokudai.ac.jp/</a>
	Professor	SATO Yoshihiro	
	Associate Professor	OONISHI Yoshihiro	
Synthetic and Industrial Chemistry	Assistant Professor	DOI Ryohei	synthetic organic chemistry, asymmetric catalysis, bimetallic cooperative catalysis, natural product synthesis, oligosaccharide synthesis based on new glycosidation method <a href="http://www.pharm.hokudai.ac.jp/yakuzou/">http://www.pharm.hokudai.ac.jp/yakuzou/</a>
	Professor	MATSUNAGA Shigeki	
	Lecturer	YOSHINO Tatsuhiko	
	Assistant Professor	KOJIMA Masahiro	

## Biomedical and Pharmaceutical Science Course, Division of Life Science

Fields	Supervisors		Research Topics
Organic Chemistry for Drug Development	Professor Lecturer Assistant Professor	SHUTO Satoshi WATANABE Mizuki FUJIWARA Koichi	medicinal chemistry: drug design <a href="http://www.pharm.hokudai.ac.jp/youki/index.html">http://www.pharm.hokudai.ac.jp/youki/index.html</a>
Pharmacology	Professor Lecturer Lecturer Assistant Professor	MINAMI Masabumi AMANO Taiju NOMURA Hiroshi HITORA Natsuko	neuropharmacology, electrophysiology, emotion, pain, addiction, BBB <a href="http://www.pharm.hokudai.ac.jp/yakuri/index.html">http://www.pharm.hokudai.ac.jp/yakuri/index.html</a>
Molecular Design of Pharmaceutics	Professor Associate Professor Assistant Professor Assistant Professor	HARASHIMA Hideyoshi YAMADA Yuma NAKAMURA Takashi SATO Yusuke	drug delivery system, organelle-targeting, nanomedicine, gene delivery, siRNA delivery, intracellular trafficking, imaging, vaccine, cancer therapy <a href="http://www.pharm.hokudai.ac.jp/yakusetu/index.html">http://www.pharm.hokudai.ac.jp/yakusetu/index.html</a>
(Innovative Nanomedicine)	Professor Associate Professor Assistant Professor Assistant Professor	HARASHIMA Hideyoshi YAMADA Yuma NAKAMURA Takashi SATO Yusuke	vascular-targeted drug delivery, nanomedicine, active targeting, tumor, liver, adipose tissue, specific ligand <a href="http://www.pharm.hokudai.ac.jp/mirai/">http://www.pharm.hokudai.ac.jp/mirai/</a>
Molecular Imaging	Professor Lecturer Assistant Professor	OGAWA Mikako TAKAKURA Hideo SUZUKI Motofumi	molecular imaging, imaging probe, PET, optical imaging, MRI <a href="http://www.pharm.hokudai.ac.jp/bunseki/index.html">http://www.pharm.hokudai.ac.jp/bunseki/index.html</a>
Clinical Pharmaceutics & Therapeutics	Associate Professor Assistant Professor Assistant Professor	KOBAYASHI Masaki NARUMI Katsuya FURUGEN Ayako	transporter, clinical research, cancer pharmacotherapy <a href="http://rinshoyakuzaigaku.pharm.hokudai.ac.jp/">http://rinshoyakuzaigaku.pharm.hokudai.ac.jp/</a>

## Biomedical and Pharmaceutical Science Course, Division of Life Science

Fields	Supervisors		Research Topics
Pathophysiology & Therapeutics	Specially Appointed Professor Assistant Professor	Hiroshi Takeda  Naoto Okubo	inflammatory bowel disease, MIF, hypoxia, ghrelin, anorexia <a href="http://www.pharm.hokudai.ac.jp/byoutai/index.html">http://www.pharm.hokudai.ac.jp/byoutai/index.html</a>
Pharmacokinetics	Professor Associate Professor Lecturer Assistant Professor Assistant Professor	SUGAWARA Mitsuru  TAKEKUMA Yoh  KASHIWAGI Hitoshi SATO Yuki  IMAI Syungo  KATO Izumi	pharmacokinetics, transporter, drug metabolism, pharmaceuticals <a href="http://www.pharm.hokudai.ac.jp/doutai/index.html">http://www.pharm.hokudai.ac.jp/doutai/index.html</a>
Center for Research and Education on Drug Discovery (Synthetic Drug Discovery)	Professor Lecturer Assistant Professor	ICHIKAWA Satoshi  YAKUSHIJI Fumika  KATSUYAMA Akira	organic synthesis, natural products, drug discovery, chemical library screening, in silico screening, intractable disease, chemical biology <a href="https://japanese-apricot.pharm.hokudai.ac.jp/gouseiyaku/index.php">https://japanese-apricot.pharm.hokudai.ac.jp/gouseiyaku/index.php</a>
Center for Research and Education on Drug Discovery (Biologics and Drug Development)	Professor Associate Professor Specially Appointed Associate Professor Assistant Professor Specially Appointed Assistant Professor Specially Appointed Assistant Professor Specially Appointed Assistant Professor	MAENAKA Katsumi  FUKUHARA Hideo  MAEDA Naoyoshi  SUMI Masato  NOMURA Takao  KITA Syunsuke  TADOKORO Takashi	biologics, drug discovery, chemical library screening, in silico screening, intractable disease <a href="http://japanese-apricot.pharm.hokudai.ac.jp/">http://japanese-apricot.pharm.hokudai.ac.jp/</a>



## Division of Soft Matter, Graduate School of Life Science

Laboratory	Supervisors		Research Topics
Soft Matter Materials Science	Professor Professor	Jian Ping Gong KUROKAWA Takayuki	Soft & wet matter, polymer gel, double network gel, gel more durable than metal, self-healing gel, self-growing gel, bonding gel, thermal toughening gel, low friction gel, super lubricating gel, color changing gel, Sea glue gel, artificial cartilage, cell scaffold gel <a href="https://altair.sci.hokudai.ac.jp/g2/index_e.html">https://altair.sci.hokudai.ac.jp/g2/index_e.html</a>
	Associate Professor Specially Appointed Associate Professor Assistant Professor	NAKAJIMA Tasuku NONOYAMA Takayuki Daniel R King	
	Professor Associate Professor Assistant Professor	IJIRO Kuniharu MITOMO Hideyuki YONAMINE Yusuke	Self-organization, self-assembly, functional device, biosensor, DNA, protein, biomolecule, cell, molecular recognition, drug delivery system, vaccine, gold nanoparticle, surface plasmon, stimuli- responsivity, capsule <a href="https://chem.es.hokudai.ac.jp/en/">https://chem.es.hokudai.ac.jp/en/</a>
Biomolecular Soft Matter	Professor Lecturer Assistant Professor	DEMURA Makoto KIKUKAWA Takashi TSUKAMOTO Takashi	photoactive proteins, photobiology, rhodopsin, membrane protein, ion pump, membrane transport, transporter, NMR, biomimicry <a href="https://altair.sci.hokudai.ac.jp/infana/">https://altair.sci.hokudai.ac.jp/infana/</a>
	Professor	AIZAWA Tomoyasu	protein science, structural biology, protein engineering, NMR, metabolome, biomarker research, biological defense, innate immunity, antimicrobial peptides, allergen, cytokines, microbiological control <a href="https://altair.sci.hokudai.ac.jp/g5/">https://altair.sci.hokudai.ac.jp/g5/</a>
Soft Matter Biophysics	Professor Assistant Professor	HAGA Hisashi ISHIHARA Seiichiro	Cell Mechanics, Collective Cell Behavior, 3D Morphogenesis, Cancer Invasion, Atomic Force Microscopy <a href="https://altair.sci.hokudai.ac.jp/g3/">https://altair.sci.hokudai.ac.jp/g3/</a>
	Professor Associate Professor Assistant Professor	NAKAGAKI Toshiyuki SATO Katsuhiko NISHIGAMI Yukinori	ciliate, amoeba, slime mold, protozoa, nematode, live cell imaging, field work, evolutionary ecology, biomechanics, locomotion, memory and learning, mathematical modeling, computer simulation, nonlinear dynamics, active soft matter, Belousov-Zhabotinski reaction, pattern formation, scaling theory, network of biochemical reactions <a href="http://pel.es.hokudai.ac.jp/index-en.html">http://pel.es.hokudai.ac.jp/index-en.html</a>

## Division of Soft Matter, Graduate School of Life Science

Laboratory	Supervisors		Research Topics
Soft Matter Medical Science	Associate Professor	TSUDA Masumi	biomaterial, cancer stem cell, molecular targeted therapy, regenerative medicine, cartilage regeneration, neuroregeneration <a href="http://patho2.med.hokudai.ac.jp">http://patho2.med.hokudai.ac.jp</a>
	Lecturer	ONODERA Tomohiro	Orthopaedic Surgery, Joint Surgery, Regenerative Medicine, Musculoskeletal System, Animal Model, Scaffold, Cartilage, Bone, Meniscus, Biomaterials, Soft Matter, Clinical Application, Translational Research <a href="http://www.hokudaiseikei.jp/">http://www.hokudaiseikei.jp/</a>
Functional Soft Matter Inter-Field Cooperation with National Institute for Materials Science (NIMS)	Visiting Professor  Visiting Associate Professor	NAKANISHI Takashi  UEKI Takeshi	molecular liquid, ionic liquid, polymer gel, block copolymer, stimuli-responsive materials, optoelectronic function, self-assembly, dynamic biomimetics, sensor, actuator <a href="https://www.nims.go.jp/hokudai/en/">https://www.nims.go.jp/hokudai/en/</a> <a href="https://life.sci.hokudai.ac.jp/en/sm/lab/functional-soft-matter">https://life.sci.hokudai.ac.jp/en/sm/lab/functional-soft-matter</a>

## Division of Clinical Pharmacy, Graduate School of Life Science

Fields	Supervisors		Research Keywords (lower case)
Department of Clinical Pharmaceutics	Associate Professor	KOBAYASHI Masaki	transporter, clinical research 【Laboratory of Clinical Pharmaceutics & Therapeutics】 <a href="http://rinshoyakuzaigaku.pharm.hokudai.ac.jp/">http://rinshoyakuzaigaku.pharm.hokudai.ac.jp/</a>
	Professor	OGAWA Mikako	molecular imaging, imaging probe, PET, optical imaging, MRI, Theranostics
	Professor Associate Professor Lecturer Lecturer	SUGAWARA Mitsuru TAKEKUMA Yoh KASHIWAGI Hitoshi SATO Yuki	pharmacokinetics, transporter, drug metabolism, pharmaceutics 【Laboratory of Pharmacokinetics】 <a href="http://www.pharm.hokudai.ac.jp/lab_17.html">http://www.pharm.hokudai.ac.jp/lab_17.html</a>
	Associate Professor	YAMADA Yuma	gene delivery, nanotechnology, liposome, vaccine, intracellular trafficking 【Laboratory for Molecular Design of Pharmaceutics】 <a href="http://www.pharm.hokudai.ac.jp/yakusetu/index.html">http://www.pharm.hokudai.ac.jp/yakusetu/index.html</a>
Department of Pharmacotherapy & Clinical Informatics	Specially Appointed Professor	Hiroshi Takeda	inflammatory bowel disease, MIF, hypoxia, ghrelin, anorexia 【Laboratory of Pathophysiology & Therapeutics】 <a href="http://www.pharm.hokudai.ac.jp/byoutai/index.html">http://www.pharm.hokudai.ac.jp/byoutai/index.html</a>
	Lecturer	NOMURA Hiroshi	neuropharmacology, electrophysiology, emotion, pain, addiction, BBB 【Laboratory of Pharmacology】 <a href="http://www.pharm.hokudai.ac.jp/yakuri/index.html">http://www.pharm.hokudai.ac.jp/yakuri/index.html</a>