

## List of Supervisors and Research Fields

As of September 1, 2023

**Master's Course**

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

Fields	Supervisors		Research Topics
Bioinformation and Molecular Science	Professor	OSE Toyoyuki	Protein, nucleic acid, enzyme, signal transduction, infection regulation, disease related factor, X-ray/neutron structural biology, cryo-EM, NMR, quantum biology, protein crystallography, computer science, protein science, biophysics <a href="https://altair.sci.hokudai.ac.jp/g6new/">https://altair.sci.hokudai.ac.jp/g6new/</a>
	Associate Professor Assistant Professor	UEHARA Ryota ISHIHARA Sumire	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://altair.sci.hokudai.ac.jp/uehara_lab/">https://altair.sci.hokudai.ac.jp/uehara_lab/</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 Associate Professor Assistant Professor	MONDE Kenji TANIGUCHI Tohru SWAMY Mahadeva M. M.	Chemical Biology, Chirality, Organic Synthesis, Inhibitors, Vibrational Circular Dichroism, Helix, Lipid Mediator, Glycoconjugate, Medicinal Chemistry, Organic Probe Synthesis, Deep Tissue Imaging <a href="https://altair.sci.hokudai.ac.jp/infchb/">https://altair.sci.hokudai.ac.jp/infchb/</a>
	Professor Assistant Professor Assistant Professor	TAMAOKI Nobuyuki PADINHARE KAYAKALI Hashim AMMATHNADU SUDHAKAR Amrutha	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 Assistant Professor Specially Appointed Assistant Professor	NAKAMURA Kiminori YOKOI Yuki TAKEMI Shota	innate immunity, antimicrobial peptide, mucosal immunity, intestinal epithelial cell, Paneth cell, alpha-defensin, stem cell, intestinal microbiota, intestinal environment, inflammatory bowel disease, lifestyle diseases, mental health, aging, cancer, allergy, 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>
	Lecturer	KITAMURA Akira	Fluorescence Correlation Spectroscopy, Fluorescence Cross Correlation Spectroscopy, single molecule detection, neurodegenerative disease, ALS, glaucoma, molecular interaction, Live cell imaging, proteostasis, protein aggregation, 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

Fields	Supervisors		Research Topics
Functional and Regulatory Life Science	Professor Professor	NISHIMURA Shin-Ichiro HINOUE Hiroshi	Chemical biology, Medicinal chemistry, Glycomedicine, Automated glycosynthesis, Glycomics, Glycotyping, Glycobiology, Biomarker discovery, Dynamic epitope, Glycopeptide, Antibody drug, Glycoconjugates probe, Microarray, Mass Spectrometry <a href="https://altair.sci.hokudai.ac.jp/g4/index.html">https://altair.sci.hokudai.ac.jp/g4/index.html</a>
Biomolecular Adaptation Science (Inter-field Cooperation with AIST)	Visiting Professor Visiting Professor  Visiting Associate Professor	KOMATSU Yasuo KONDO Hidemasa  HIRANO Yu	Antifreeze protein, Ice-binding function, Snow mold fungi, Gene expression, Protein crystallography, Biodiversity, Cell-preservation peptide, 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/research1.html">https://unit.aist.go.jp/bpri/bpri-bimo/research1.html</a>

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Master's Course

## Biosystems Science Course, Division of Life Science

Fields	Supervisors		Research Topics
Higher Order Cellular Functions	Professor	FUJITA Tomomichi	plant, evolutionary development, stem cell, cell polarity, cell cycle, cell proliferation and differentiation, environmental stress, mechanical stress, abscisic acid, moss, space utilization science, terraforming, <i>Physcomitrium patens</i> , <i>Arabidopsis thaliana</i> <a href="https://keitai1.sci.hokudai.ac.jp/en.html/">https://keitai1.sci.hokudai.ac.jp/en.html/</a>
	Assistant Professor	Marcel Pascal Beier	
	Associate Professor	NARAMOTO Satoshi	(1) Molecular mechanisms of polar auxin transport, (2) Evolutionary process of polar auxin transport, (3) Roles of auxin in the morphological diversification of land plants, (4) Adaptation to environmental stress, (5) Evolution of symbiosis and leaf morphology <a href="https://keitai1.sci.hokudai.ac.jp/en.html/">https://keitai1.sci.hokudai.ac.jp/en.html/</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>
Environmental Life Science	Professor	NAKANO Ryohei Thomas	Plant and Microbial Molecular Ecology. Plant microbiota, plant-microbe interactions, growth-defense tradeoff. Plant and microbial molecular genetics, biochemistry, microbiota profiling, metagenomics, <i>Arabidopsis thaliana</i> , mlti-omics, advanced bioinformatics. <a href="https://rtnakanolab.com/">https://rtnakanolab.com/</a>
	Assistant Professor	Tomohisa Shimasaki	
	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>
	Associate Professor	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>
	Assiatant Professor	TAKAGI Junpei	
	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>

## Biosystems Science Course, Division of Life Science

Fields	Supervisors		Research Topics
Behavior and System Control	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>
	Professor Assistant Professor	WADA Kazuhiro TOJI Noriyuki	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> )
	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	TAKEUCHI Yuichi	Laterality, Intraspecific polymorphism, Learning, Phenotypic plasticity, Neural circuits, Development of behavior, Evolution, Gene expression <a href="http://www.neuroecology-takeuchi.com/english.html">http://www.neuroecology-takeuchi.com/english.html</a>
	Associate Professor Assistant Professor Assistant Professor	TANAKA Nobuaki NISHINO Hiroshi Michael Schleyer	Drosophila melanogaster, insect, cephalopod, pygmy squid, sensory processing, learning and memory, decision making, neurophysiology, neuroanatomy, genetics, optogenetics, behavioral studies, pest control, biomimetics, dopamine <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> <a href="https://www.es.hokudai.ac.jp/labo/nishino/research_english.html">https://www.es.hokudai.ac.jp/labo/nishino/research_english.html</a>
	Lecturer	TSUNEMATSU Tomomi	Dream, sleep, genetically engineered mice, electrophysiology, optical imaging, optogenetics and programming. <a href="https://www2.sci.hokudai.ac.jp/faculty/en/researcher/tomomi-tsunematsu">https://www2.sci.hokudai.ac.jp/faculty/en/researcher/tomomi-tsunematsu</a>

## Biosystems Science Course, Division of Life Science

Fields	Supervisors		Research Topics
Reproductive and Developmental Sciences	Professor	KATSU Yoshinao	endocrinology, steroid hormone, nuclear receptor, 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 deaseases, 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
	Professor Assistant Professor	KIMURA Atsushi FUJIMORI Chika	transcription, epigenetics, gene regulation, long noncoding RNA, multifunctional genome, 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>

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Master's Course

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

Fields	Supervisors		Research Topics
Biochemistry	Professor Associate Professor Assistant Professor Assistant Professor	KIHARA Akio SASSA Takayuki OHNO Yusuke NAGANUMA Tatsuro	lipid, barrier function, ceramide, metabolism <a href="http://www.pharm.hokudai.ac.jp/seika/index.html">http://www.pharm.hokudai.ac.jp/seika/index.html</a>
RNA Biology	Professor Lecturer Assistant Professor Assistant Professor	NAKAGAWA Shinichi MAITA Hiroshi YOKOI Saori KURIHARA Misuzu	noncoding RNA, epigenetics, nuclear structures, RNA processing <a href="https://sites.google.com/site/hokudairnabiologyj/home">https://sites.google.com/site/hokudairnabiologyj/home</a>
Immunology	Professor Associate Professor Assistant Professor	MATSUDA Tadashi MUROMOTO Ryuta KITAI Yuichi	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>
Biomolecular Science	Professor Associate Professor Assistant Professor	MAENAKA Katsumi KUROKI Kimiko KITA Shunsuke	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>
Natural Products Chemistry	Professor Lecturer Assistant Professor Assistant Professor	WAKIMOTO Toshiyuki MATSUDA Kenichi YOSHIMURA Aya URIA Agustinus	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>
Fine Synthetic Chemistry	Professor Associate Professor Assistant Professor Assistant Professor	SATO Yoshihiro OONISHI Yoshihiro MORISAKI Kazuhiro NAKAMURA Kento	organic synthesis, organometallic chemistry, transition-metal catalysis, asymmetric catalysis, natural product synthesis, utilization of gaseous molecules, green chemistry <a href="http://hokudaigouka.main.jp/">http://hokudaigouka.main.jp/</a>
Synthetic and Industrial Chemistry	Associate Professor	YOSHINO Tatsuhiko	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>

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

Fields	Supervisors		Research Topics
Organic Chemistry for Drug Development	Associate Professor	WATANABE Mizuki	medicinal chemistry: drug design <a href="http://www.pharm.hokudai.ac.jp/yuuki/index.html">http://www.pharm.hokudai.ac.jp/yuuki/index.html</a>
Molecular Catalysis	Professor	URAGUCHI Daisuke	Molecular Catalysis, Organic Synthesis, Mechanistic Analysis
	Associate Professor	ASANO Keisuke	
	Assistant Professor	ZHAO Qiang	
Pharmacology	Professor	MINAMI Masabumi	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>
	Associate Professor	AMANO Taiju	
	Associate Professor	TAKEUCHI Yuichi	
	Specially Appointed Assistant Professor	MICHELE Chan	
Molecular Design of Pharmaceutics	Specially Appointed Assistant Professor	KATAGIRI Chiaki	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>
	Professor	YAMADA Yuma	
	Associate Professor	NAKAMURA Takashi	
(Innovative Nanomedicine)	Assistant Professor	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>
	Professor	HARASHIMA Hideyoshi	
	Specially Appointed Assistant Professor	Mahmoud Abu Bakr Ahmed YOUNIS	
	Professor	YAMADA Yuma	
	Associate Professor	NAKAMURA Takashi	
Molecular Imaging	Assistant Professor	SATO Yusuke	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>
	Professor	OGAWA Mikako	
	Associate Professor	IEDA Naoya	
Clinical Pharmaceutics & Therapeutics	Assistant Professor	NAKAJIMA Kohei	transporter, clinical research, cancer pharmacotherapy <a href="http://rinshoyakuzaigaku.pharm.hokudai.ac.jp/">http://rinshoyakuzaigaku.pharm.hokudai.ac.jp/</a>
	Lecturer	NARUMI Katsuya	
	Professor	KOBAYASHI Masaki	
	Assistant Professor	FURUGEN Ayako	

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

Fields	Supervisors		Research Topics
Molecular and Cellular Medicine	Professor Lecturer Assistant Professor	OHNISHI Shunsuke  OKUBO Naoto MAEHARA Osamu	Mesenchymal stem cells, Cell therapy, Regenerative medicine, Kampo medicine
Pharmacokinetics	Professor Associate Professor Lecturer Lecturer Assistant Professor Assistant Professor	SUGAWARA Mitsuru  TAKEKUMA Yoh  KASHIWAGI Hitoshi SATO Yuki  NASHIMOTO Shunsuke KATO Izumi	pharmacokinetics, transporter, drug metabolism, pharmaceuticals <a href="https://www.pharm.hokudai.ac.jp/lab_17.html">https://www.pharm.hokudai.ac.jp/lab_17.html</a>
Advanced Prevention and Research Laboratory for Dementia	Associate Professor Visiting Associate Professor	TARU Hidenori  HATA Saori	neuroscience, cell biology, genetics, synapse, protein trafficking, vesicular trafficking, neurodegenerative diseases
Center for Research and Education on Drug Discovery (Synthetic Drug Discovery)	Professor Associate Professor Assistant Professor Assistant Professor	ICHIKAWA Satoshi  YAKUSHIJI Fumika  KATSUYAMA Akira YAMAMOTO Kazuki	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 Assistant Professor Assistant Professor Specially Appointed Assistant Professor	MAENAKA Katsumi  SUMI Masato Pablo GUILLEN  Hisham DOKAINISH	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>
Genome Biology	Associate Professor	OHTA Shinya	genome, chromatin, aging, cellular senescence, cancer, human, yeast model, genomics, proteomics, microscopy, biochemistry <a href="https://www.igm.hokudai.ac.jp/3dgenome/ja/index.html">https://www.igm.hokudai.ac.jp/3dgenome/ja/index.html</a>



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

<b>Fields</b>	<b>Supervisors</b>		<b>Research Topics</b>
Microbial Oncology	Associate Professor	KAMIYA Naoko	<i>Helicobacter pylori</i> , <i>cagA</i> , gastric carcinogenesis
Molecular Cell Biology	Associate Professor Assistant Professor	OKAZAKI Tomohiko MORIMOTO Nao	Our research goal is to understand how cells integrate numerous external and internal signals into meaningful biological outputs by focusing on (1) post-translational modifications and logistics of proteins, or (2) inter-organelle communications. In addition, we are also studying (3) the interactions between immune and nervous systems and (4) neuroethology using <i>Drosophila</i> . Through these studies, we wish to discover the sophisticated (crazy cool) systems of living organisms for surviving in a complex world. <a href="https://www.igm.hokudai.ac.jp/molcell/en/">https://www.igm.hokudai.ac.jp/molcell/en/</a>

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Master's Course

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

Fields	Supervisors		Research Topics
Soft Matter Materials Science	Professor	GONG Jian Ping	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 (1) <a href="https://altair.sci.hokudai.ac.jp/g2/index_e.html">https://altair.sci.hokudai.ac.jp/g2/index_e.html</a> (2) <a href="https://life.sci.hokudai.ac.jp/fa/lab/soft-matter-collaborative-research-unit">https://life.sci.hokudai.ac.jp/fa/lab/soft-matter-collaborative-research-unit</a>
	Associate Professor	NAKAJIMA Tasuku	
	Associate Professor	NONOYAMA Takayuki	
	Associate Professor	INDEI Tsutomu	
	Assistant Professor	LI Xueyu	
	Professor	KUROKAWA Takayuki	Polymer gel, Double network gel, Friction of gel, Artificial cartilage, Cell culture substrate, Soft composite material, Adsorption and adhesion, Donnan potential <a href="https://altair.sci.hokudai.ac.jp/tsl/">https://altair.sci.hokudai.ac.jp/tsl/</a>
	Professor	IJIRO Kuniharu	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>
	Associate Professor	MITOMO Hideyuki	
	Assistant Professor	YONAMINE Yusuke	
	Specially Appointed Assistant Professor	NAKAMURA Satoshi	
	Associate Professor	LI Xiang	Polymer solution, polymer gel, rubber, nanostructure, molecular dynamics, light scattering, X-ray scattering, neutron scattering, Raman spectroscopy, rheology, polymer synthesis, polymer physics <a href="https://www.xiangli-lab.com/en">https://www.xiangli-lab.com/en</a>
Biomolecular Soft Matter	Professor	DEMURA Makoto	Photoactive proteins, photobiology, rhodopsin, optogenetics, laboratory evolution, membrane protein, ion pump, membrane transport, transporter, flash photolysis <a href="https://altair.sci.hokudai.ac.jp/infana/">https://altair.sci.hokudai.ac.jp/infana/</a>
	Associate Professor	KIKUKAWA Takashi	
	Assistant Professor	TSUKAMOTO Takashi	
	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>

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

Fields	Supervisors		Research Topics
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>
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>

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