

List of Faculty

Tokyo Institute of Technology International Graduate Program (A)

Commencing in September 2023

A4 Graduate Program to Foster BioDX Leaders for Global Bio-Industry

As of Aug. 23, 2022

Academic Supervisor		Research Field	Remarks	Graduate Major
Professor	ISHII, Yoshitaka	Physical Chemistry, Structural Biology, Alzheimer's Disease		• Life Science and Technology
Professor	ITOH, Takehiko	Bioinformatics		• Life Science and Technology
Professor	UENO, Takafumi	Bioinorganic Chemistry, Biophysical Chemistry, Biosupramolecular Chemistry		• Life Science and Technology
Professor	OSAKABE, Yuriko	Plant Molecular Biology, Plant Molecular Physiology, Genetic Engineering, Genome Editing		• Life Science and Technology
Professor	KAMACHI, Toshiaki	Bioinorganic Chemistry, Cellular Imaging of Oxygen		• Life Science and Technology • Human Centered Science and Biomedical Engineering
Professor	KAMIYA, Mako	Chemical Biology		• Life Science and Technology
Professor	KITAO, Akio	Computational Biology, Biophysics, Computational Chemistry, Protein Dynamics		• Life Science and Technology
Professor	KIMURA, Hiroshi	Epigenetics and Cell Biology		• Life Science and Technology
Professor	KINBARA, Kazushi	Bioinspired Synthetic Chemistry		• Life Science and Technology
Professor	KOMADA, Masayuki	Biochemistry and Cell Biology, Growth Factor Signaling, Membrane Trafficking, Tumor Biology		• Life Science and Technology
Professor	SEIO, Kohji	Bioorganic Chemistry		• Life Science and Technology • Human Centered Science and Biomedical Engineering
Professor	TAGUCHI, Hideki	Protein science, Biochemistry, Protein Folding, Chaperone, Ribosome, Amyloid/Prion		• Life Science and Technology
Professor	TANAKA, Mikiko	Developmental Biology		• Life Science and Technology
Professor	HAYASHI, Nobuhiro	Molecular Biology and Proteomics		• Life Science and Technology • Human Centered Science and Biomedical Engineering
Professor	HIROTA, Junji	Molecular Neuroscience		• Life Science and Technology
Professor	FUKUI, Toshiaki	Genetic Engineering, Metabolic Engineering, Extremophiles		• Life Science and Technology
Professor	HONGO, Yuichi	Molecular Microbial Ecology, Symbiosis		• Life Science and Technology
Professor	MURAKAMI, Satoshi	Structural Biology, Protein Crystallography		• Life Science and Technology
Professor	YAMAGUCHI, Yuki	Control of Gene Expression, Epigenetics, RNA Processing, Drug Discovery		• Life Science and Technology
Associate Professor	AIZAWA, Yasunori	Cellular Genomics		• Life Science and Technology

Academic Supervisor		Research Field	Remarks	Graduate Major
Associate Professor	OHKUBO, Akihiro	Bioorganic Chemistry		<ul style="list-style-type: none"> Life Science and Technology Human Centered Science and Biomedical Engineering
Associate Professor	KATO, Akira	Epithelial Transport, Animal Physiology		<ul style="list-style-type: none"> Life Science and Technology
Associate Professor	KANO, Fumi	Cell Biology, Cell Editing, Bioimaging, Image Analysis		<ul style="list-style-type: none"> Life Science and Technology
Associate Professor	SHIMOJIMA, Mie	Plant Molecular Biology and Biochemistry		<ul style="list-style-type: none"> Life Science and Technology
Associate Professor	SHIRAKI, Nobuaki	Stem Cell Biology		<ul style="list-style-type: none"> Life Science and Technology
Associate Professor	SUZUKI, Takashi	Molecular Neurobiology		<ul style="list-style-type: none"> Life Science and Technology
Associate Professor	TAGAWA, Yoh-ichi	Developmental Engineering, Molecular Biology, Artificial Organ, Immunology		<ul style="list-style-type: none"> Life Science and Technology
Associate Professor	TSUTSUMI, Hiroshi	Chemical Biology		<ul style="list-style-type: none"> Life Science and Technology
Associate Professor	NAKATOGAWA, Hitoshi	Molecular Cell Biology and Biochemistry		<ul style="list-style-type: none"> Life Science and Technology
Associate Professor	NAKAMURA, Nobuhiro	Molecular Cell Biology		<ul style="list-style-type: none"> Life Science and Technology
Associate Professor	NIKAIDO, Masato	Molecular Evolutionary Biology		<ul style="list-style-type: none"> Life Science and Technology
Associate Professor	NOZAWA, Kayo	Genome foldings, Transcriptional regulation, Subnucleosome, Biochemical analysis, Structural biology, Cryo-EM, The development of affinity grid for cryo-EM, In-vitro reconstitution of high-order genome architectures		<ul style="list-style-type: none"> Life Science and Technology
Associate Professor	NONOMURA, Keiko	Mechanosensing, PIEZO channel, Sensory neuron, Cerebrospinal fluid, Lymphatic vessel, live imaging, Mechanobiology, Developmental biology		<ul style="list-style-type: none"> Life Science and Technology
Associate Professor	HATA, Takeshi	Organic Synthesis, Asymmetric Synthesis		<ul style="list-style-type: none"> Life Science and Technology
Associate Professor	HIRASAWA, Takashi	Applied Microbiology and Metabolic Engineering		<ul style="list-style-type: none"> Life Science and Technology
Associate Professor	FUJIE, Toshinori	Biomaterials, Polymer Science, Tissue Engineering, Bioelectronics		<ul style="list-style-type: none"> Life Science and Technology Human Centered Science and Biomedical Engineering
Associate Professor	FUJITA, Naonobu	Cell and Developmental Biology		<ul style="list-style-type: none"> Life Science and Technology
Associate Professor	HOSHINO, Ayuko	Exosome biology/ cancer/ metastasis/ autism/ molecular biology/ biomarker/ multiple organ interaction/ microenvironment		<ul style="list-style-type: none"> Life Science and Technology Human Centered Science and Biomedical Engineering
Associate Professor	MASUDA, Shinji	Plant Molecular Biology and Photobiology		<ul style="list-style-type: none"> Life Science and Technology
Associate Professor	MATSUDA, Tomoko	Bioorganic Chemistry, Biocatalysis, Green Chemistry		<ul style="list-style-type: none"> Life Science and Technology
Associate Professor	MIE, Masayasu	Protein Engineering, Tissue Engineering, Biosensing		<ul style="list-style-type: none"> Life Science and Technology Human Centered Science and Biomedical Engineering

Academic Supervisor		Research Field	Remarks	Graduate Major
Associate Professor	YATSUNAMI, Rie	Extremophile, Extemozyme, Protein Engineering, Directed Evolution, Metabolic Engineering,		• Life Science and Technology
Associate Professor	YAMADA, Takuji	Genome Science and Bioinformatics		• Life Science and Technology
Associate Professor (Lecturer)	ASAKURA, Noriyuki	Bioinorganic Chemistry, Biological Electron Transfer		• Life Science and Technology
Associate Professor (Lecturer)	KONDO, Toru	Biophysics, Microspectroscopy, Quantum biology, Biophotophysics, Single-protein spectroscopy, Photosynthesis, Life-earth coevolution		• Life Science and Technology • Human Centered Science and Biomedical Engineering
Professor	UEDA, Hiroshi	Bioprocess and Protein Engineering, Antibody Engineering, Analytical Chemistry, Biosensors		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Professor	KAJIWARA, Susumu	Microbial Infection, Immune Response, Biotechnology, Genome Editing		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Professor	KOSHIKAWA, Naohiko	Tumor biology, Tumor diagnostics, Clinical proteomics		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Professor	NAKAMURA, Hiroyuki	Organic Synthesis, Medicinal Chemistry, Chemical Biology		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Professor	NISHIYAMA, Nobuhiro	Drug Delivery System, Biomaterials Science		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Associate Professor	OKADA, Satoshi	Molecular imaging, Chemical biology, Nanotechnology		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Associate Professor	OGURA, Shun-ichiro	Molecular Biology, Alternative Therapy for Tumor, Biometabolic Engineering, Biomarker		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Associate Professor	ORIHARA, Kanami	Immunology, Allergic diseases, Infectious diseases, Circadian rhythm, Preventive medicine		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Associate Professor	KITAGUCHI, Tetsuya	Bioimaging, Protein Engineering, Biosensors		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Associate Professor	MIURA, Yutaka	Polymer synthesis, Drug Delivery System, Biomaterials Science		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Associate Professor	MORI, Toshiaki	Bioorganic Chemistry, Polymer Chemistry		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Associate Professor	YOSHIDA, Keisuke	Plant Biochemistry, Plant Physiology, Photosynthesis, Environmental Acclimation		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Assistant Professor	KADONOSONO, Tetsuya	Drug Discovery Science, Medicinal Protein Engineering, Tumor Biology		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Professor	MATSUURA, Tomoaki	Directed evolution, synthetic biology, cell-free science, biotechnology		• Life Science and Technology
Associate Professor	FUJISHIMA, Kosuke	Origins of life, Astrobiology, Synthetic biology, Directed evolution, RNA, peptide, Chemical evolution		• Life Science and Technology
Associate Professor	McGLYNN, Shawn	Origins of life, Enzyme evolution, prebiotic chemistry, microbial ecology, stable isotope fractionation, geomicrobiology		• Life Science and Technology
Professor	TAKINOUE, Masahiro	Synthetic biology, DNA nanotechnology, Artificial cell engineering, Biophysics		• Life Science and Technology
Professor	YANAGIDA, Yasuko	Bio-MEMS/NEMS, Biosensing, Biofunctional Engineering		• Human Centered Science and Biomedical Engineering

Academic Supervisor		Research Field	Remarks	Graduate Major
Professor	YAGI, Tohru	Neural Engineering, Human Interface, Vision		• Human Centered Science and Biomedical Engineering