

List of Faculty

Tokyo Institute of Technology International Graduate Program (C)

Commencing in September 2022

School of Life Science and Technology

Dept. of Life Science and Technology

Academic Supervisor		Research Field	Remarks	Graduate Major
Professor	ISHII, Yoshitaka	Physical Chemistry, Structural Biology, Alzheimer's Disease		Life Science and Technology
Professor	ICHINOSE, Hiroshi	Neurochemistry, Molecular Biology, Neuroscience		Life Science and Technology Human Centered Science and Biomedical Engineering
Professor	ITOH, Takehiko	Bioinformatics		Life Science and Technology
Professor	IWASAKI, Hiroshi	Molecular Genetics and Molecular Biology		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	KAJIWARA, Susumu	Microbial Infection, Immune Response, Biotechnology, Genome Editing		Human Centered Science and Biomedical Engineering Life Science and Technology
Professor	KAMACHI, Toshiaki	Bioinorganic Chemistry, Cellular Imaging of Oxygen		Life Science and Technology Human Centered Science and Biomedical Engineering
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	KUME, Shoen	Stem Cell Biology, Regenerative Medicine		Life Science and Technology
Professor	KOBATAKE, Eiry	Protein Engineering, Cellular Engineering, Biosensing		Life Science and Technology Human Centered Science and Biomedical Engineering
Professor	KOMADA, Masayuki	Biochemistry and Cell Biology, Growth Factor Signaling, Membrane Trafficking, Tumor Biology		Life Science and Technology

Academic Supervisor		Research Field	Remarks	Graduate Major
Professor	TAGUCHI, Hideki	Biophysical Chemistry, Protein Folding, Chaperone, Amyloid/Prion, Translation		Life Science and Technology
Professor	TANAKA, Mikiko	Developmental Biology		Life Science and Technology
Professor	TOKUNAGA, Makio	Single Molecule Biology, Nuclear Dynamics, Transcription Regulation, Super-resolution Imaging	Master's Program Only	Life Science and Technology
Professor	HAYASHI, Nobuhiro	Molecular Biology and Proteomics		Life Science and Technology Human Centered Science and Biomedical Engineering
Professor	FUKUI, Toshiaki	Genetic Engineering, Metabolic Engineering, Extremophiles		Life Science and Technology
Professor	HONGO, Yuichi	Molecular Microbial Ecology, Symbiosis		Life Science and Technology
Professor	MARUYAMA, Atsushi	Biomaterials, Bioconjugates, Biofunctional Polymers, Smart Materials, Drug delivery systems, Biosensing, Nanobioscience	Master's Program Only	Life Science and Technology Human Centered Science and Biomedical Engineering
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
Professor	YUASA, Hideya	Bioorganic Chemistry		Life Science and Technology Human Centered Science and Biomedical Engineering
Associate Professor	AIZAWA, Yasunori	Cellular Genomics		Life Science and Technology
Associate Professor	OHKUBO, Akihiro	Bioorganic Chemistry		Life Science and Technology Human Centered Science and Biomedical Engineering
Associate Professor	OSADA, Toshiya	Neuroscience	Master's Program Only	Life Science and Technology
Associate Professor	KATO, Akira	Epithelial Transport, Animal Physiology		Life Science and Technology
Associate Professor	KAWAKAMI, Atsushi	Developmental Genetics, Regenerative Biology		Life Science and Technology

Academic Supervisor		Research Field	Remarks	Graduate Major
Associate Professor	SHIMOJIMA, Mie	Plant Molecular Biology and Biochemistry		Life Science and Technology
Associate Professor	SHIRAKI, Nobuaki	Stem Cell Biology		Life Science and Technology
Associate Professor	SUZUKI, Takashi	Molecular Neurobiology		Life Science and Technology
Professor	SEIO, Kohji	Bioorganic Chemistry		Life Science and Technology Human Centered Science and Biomedical Engineering
Associate Professor	TAGAWA, Yoh-ichi	Developmental Engineering, Molecular Biology, Artificial Organ, Immunology		Life Science and Technology
Associate Professor	TACHIBANA, Kazunori	Chronobiology, oogenesis, sleep, longevity		Life Science and Technology
Associate Professor	TSUTSUMI, Hiroshi	Chemical Biology		Life Science and Technology
Associate Professor	NAKATOGAWA, Hitoshi	Molecular Cell Biology and Biochemistry		Life Science and Technology
Associate Professor	NAKAMURA, Nobuhiro	Molecular Cell Biology		Life Science and Technology
Associate Professor	NIKAIDO, Masato	Molecular Evolutionary Biology		Life Science and Technology
Associate Professor	HATA, Takeshi	Organic Synthesis, Asymmetric Synthesis		Life Science and Technology
Associate Professor	HIRASAWA, Takashi	Applied Microbiology and Metabolic Engineering		Life Science and Technology
Professor	HIROTA, Junji	Molecular Neuroscience		Life Science and Technology
Associate Professor	FUJITA, Naonobu	Cell and Developmental Biology		Life Science and Technology
Associate Professor	HOSHINO, Ayuko	Exosome biology/ cancer/ metastasis/ autism/ molecular biology/ biomarker/ multiple organ interaction/ microenvironment		Life Science and Technology Human Centered Science and Biomedical Engineering

Academic Supervisor		Research Field	Remarks	Graduate Major
Associate Professor	MASUDA, Shinji	Plant Molecular Biology and Photobiology		Life Science and Technology
Associate Professor	MATSUDA, Tomoko	Bioorganic Chemistry, Biocatalysis, Green Chemistry		Life Science and Technology
Associate Professor	MIE, Masayasu	Protein Engineering, Tissue Engineering, Biosensing		Life Science and Technology Human Centered Science and Biomedical Engineering
Associate Professor	YATSUNAMI, Rie	Extremophile, Extremozyme, 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)	KAJIKAWA, Masaki	Molecular Biology		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
Associate Professor	FUJIE, Toshinori	Biomaterials, Polymer Science, Tissue Engineering, Bioelectronics		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	KOSHIKAWA, Naohiko	Tumor biology, Tumor diagnostics, Clinical proteomics		Human Centered Science and Biomedical Engineering Life Science and Technology
Professor	TANAKA, Kan	Evolutional Cell Biology, Cell Cycle, Signal Transduction, Stress Response, Microbiology, Metabolic Regulation, Symbiosis, Organelle, Chloroplast, Mitochondria, Transcriptional Regulation, Plant Physiology, Photosynthesis		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

Academic Supervisor		Research Field	Remarks	Graduate Major
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	MIYASHITA, Eizo	Systems Neuroscience		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	WAKABAYASHI, Ken-ichi	Cell Biology, Cell Motility, Biochemistry		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		Earth-Life Science ★ Life Science and Technology
Associate Professor	FUJISHIMA, Kosuke	Origins of life, Astrobiology, Synthetic biology, Directed evolution, RNA, peptide, Chemical evolution		Earth-Life Science ★ Life Science and Technology
Associate Professor	McGLYNN, Shawn	Origins of life, Enzyme evolution, prebiotic chemistry, microbial ecology, stable isotope fractionation, geomicrobiology		Earth-Life Science ★ Life Science and Technology
Professor	YAMAMURA, Masayuki	Systems Biology, Synthetic Biology, Bioinformatics, DNA Computing, Artificial Life, Symbiotic Ecosystems		Life Science and Technology
Professor	YANAGIDA, Yasuko	Bio-MEMS/NEMS, Biosensing, Biofunctional Engineering		Human Centered Science and Biomedical Engineering
Associate Professor	YAGI, Tohru	Neural Engineering, Human Interface, Vision		Human Centered Science and Biomedical Engineering

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Associate Professor	TAKINOUE, Masahiro	Synthetic biology, DNA nanotechnology, Artificial cell engineering, Biophysics		Life Science and Technology

★ The Earth-Life Science Graduate Major is an Integrated Doctoral Educational Program (master's and doctoral level).