

**List of Faculties**  
**Tokyo Institute of Technology International Graduate Program (A)**  
**Commencing in September 2022**

**A4 Graduate Program to Foster Bio-Global Leader**

As of Sep.13, 2021

Academic Supervisor		Research Field	Remarks	Graduate Major
Professor	FUKUI, Toshiaki	Genetic Engineering, Metabolic Engineering, Extremophiles		•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	HONGO, Yuichi	Molecular Microbial Ecology, Symbiosis		•Life Science and Technology
Professor	ISHII, Yoshitaka	Physical Chemistry, Structural Biology, Alzheimer's Disease		•Life Science and Technology
Professor	ITOH, Takehiko	Bioinformatics		•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	KIMURA, Hiroshi	Epigenetics and Cell Biology		•Life Science and Technology
Professor	KINBARA, Kazushi	Bioinspired Synthetic Chemistry		•Life Science and Technology
Professor	KITAO, Akio	Computational Biology, Biophysics, Computational Chemistry, Protein Dynamics		•Life Science and Technology
Professor	KOMADA, Masayuki	Biochemistry and Cell Biology, Growth Factor Signaling, Membrane Trafficking, Tumor Biology		•Life Science and Technology
Professor	KOSHIKAWA, Naohiko	Tumor biology, Tumor diagnostics, Clinical proteomics		•Human Centered Science and Biomedical Engineering •Life Science and Technology
Professor	KUME, Shoen	Stem Cell Biology, Regenerative Medicine		•Life Science and Technology
Professor	MATSUURA, Tomoaki	Directed evolution, synthetic biology, cell-free science, biotechnology		•Life Science and Technology
Professor	MURAKAMI, Satoshi	Structural Biology, Protein Crystallography		•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
Professor	OSAKABE, Yuriko	Plant Molecular Biology, Plant Molecular Physiology, Genetic Engineering, Genome Editing		•Life Science and Technology
Professor	SEIO, Kohji	Bioorganic Chemistry		•Life Science and Technology •Human Centered Science and Biomedical Engineering
Professor	TAGUCHI, Hideki	Biophysical Chemistry, Protein Folding, Chaperone, Amyloid/Prion, Translation		•Life Science and Technology

Academic Supervisor		Research Field	Remarks	Graduate Major
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	TANAKA, Mikiko	Developmental Biology		•Life Science and Technology
Professor	UEDA, Hiroshi	Bioprocess and Protein Engineering, Antibody Engineering, Analytical Chemistry, Biosensors		•Human Centered Science and Biomedical Engineering •Life Science and Technology
Professor	UENO, Takafumi	Bioinorganic Chemistry, Biophysical Chemistry, Biosupramolecular Chemistry		•Life Science and Technology
Professor	YAMAGUCHI, Yuki	Control of Gene Expression, Epigenetics, RNA Processing, Drug Discovery		•Life Science and Technology
Professor	YANAGIDA, Yasuko	Bio-MEMS/NEMS, Biosensing, Biofunctional Engineering		•Human Centered Science and Biomedical Engineering
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	FUJIE, Toshinori	Biomaterials, Polymer Science, Tissue Engineering, Bioelectronics		•Life Science and Technology •Human Centered Science and Biomedical Engineering
Associate Professor	FUJISHIMA, Kosuke	Origins of life, Astrobiology, Synthetic biology, Directed evolution, RNA, peptide, Chemical evolution		•Life Science and Technology
Associate Professor	FUJITA, Naonobu	Cell and Developmental 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
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
Associate Professor	KANO, Fumi	Cell Biology, Cell Editing, Bioimaging, Image Analysis		•Life Science and Technology
Associate Professor	KATO, Akira	Epithelial Transport, Animal Physiology		•Life Science and Technology
Associate Professor	KITAGUCHI, Tetsuya	Bioimaging, Protein Engineering, Biosensors		•Human Centered Science and Biomedical Engineering •Life Science and Technology
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	McGLYNN, Shawn	Origins of life, Enzyme evolution, prebiotic chemistry, microbial ecology, stable isotope fractionation, geomicrobiology		•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	MIURA, Yutaka	Polymer synthesis, Drug Delivery System, Biomaterials Science		•Human Centered Science and Biomedical Engineering •Life Science and Technology

Academic Supervisor		Research Field	Remarks	Graduate Major
Associate Professor	MORI, Toshiaki	Bioorganic Chemistry, Polymer Chemistry		•Human Centered Science and Biomedical Engineering •Life Science and Technology
Associate Professor	NAKAMURA, Nobuhiro	Molecular Cell Biology		•Life Science and Technology
Associate Professor	NAKATOGAWA, Hitoshi	Molecular Cell Biology and Biochemistry		•Life Science and Technology
Associate Professor	NIKAIDO, Masato	Molecular Evolutionary Biology		•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	OHKUBO, Akihiro	Bioorganic Chemistry		•Life Science and Technology •Human Centered Science and Biomedical Engineering
Associate Professor	OKADA, Satoshi	Molecular imaging, Chemical biology, Nanotechnology		•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	SHIMAJIMA, 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
Associate Professor	TAGAWA, Yoh-ichi	Developmental Engineering, Molecular Biology, Artificial Organ, Immunology		•Life Science and Technology
Associate Professor	TAKINOUE, Masahiro	Synthetic biology, DNA nanotechnology, Artificial cell engineering, Biophysics		•Life Science and Technology
Associate Professor	TSUTSUMI, Hiroshi	Chemical Biology		•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	YAGI, Tohru	Neural Engineering, Human Interface, Vision		•Human Centered Science and Biomedical Engineering
Associate Professor	YAMADA, Takuji	Genome Science and Bioinformatics		•Life Science and Technology
Associate Professor	YATSUNAMI, Rie	Extremophile, Extremozyme, Protein Engineering, Directed Evolution, Metabolic Engineering,		•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

Academic Supervisor		Research Field	Remarks	Graduate Major
Assistant Professor	KADONOSONO, Tetsuya	Drug Discovery Science, Medicinal Protein Engineering, Tumor Biology		<ul style="list-style-type: none"> <li>• Human Centered Science and Biomedical Engineering</li> <li>• Life Science and Technology</li> </ul>

**(2) Dept. of Mechanical Engineering**

Academic Supervisor		Research Field	Remarks	Graduate Major
Associate Professor	YAGI, Tohru	Neural Engineering, Human Interface, Vision		<ul style="list-style-type: none"> <li>• Human Centered Science and Biomedical Engineering</li> </ul>