

【Department of Mathematical Sciences】

	Title	Name	Education and Research Fields
1	Professor	IRIYE Kouyemon	Algebraic Topology
2	Professor	KABEYA Yoshitsugu	Differential Equations
3	Professor	KAWAZOE Mitsuru	Cryptography, Algebraic Geometry, Mathematics Education
4	Professor	TAKAHASHI Tetsuya	Cryptography, Number Theory, Mathematics Education at University Level
5	Professor	TANIGAWA Tomoyuki	Qualitative theory of differential equations
6	Professor	TABATA Minoru	Mathematical Simulation
7	Professor	MATSUNAGA Hideaki	Functional Differential Equations, Difference Equations
8	Professor	MARUTA Tatsuya	Algebraic Coding Theory, Finite Geometry
9	Professor	YAMAGUCHI Atsushi	Algebraic Topology, Homotopy Theory
10	Associate Professor	KAZUMI Tetsuya	Stochastic Analysis
11	Associate Professor	KADA Masaru	Axiomatic Set Theory, Set-theoretic Topology, Mathematical Logic
12	Associate Professor	KATO Kiriko	Ring Theory
13	Associate Professor	KAN Toru	Partial Differential Equations, Ordinary Differential Equations
14	Associate Professor	SHIROSAKI Manabu	Value Distribution Theory, Complex Analysis
15	Associate Professor	TANAKA Hidekazu	Mathematical Statistics, Theory of Probability Distribution
16	Associate Professor	TAMURA Takashi	Mathematical Finance, Stochastic Control
17	Associate Professor	MIZUNO Yuya	Representation Theory of Algebras
18	Associate Professor	MINAMOTO Hiroyuki	Homological Algebra of Rings
19	Associate Professor	YAMAOKA Naoto	Ordinary Differential Equations, Numerical Analysis
20	Associate Professor	WATAMORI Yoko	Multivariate Analysis, Mathematical Statistics
21	Assistant Professor	TANAKA Ushio	Differential Geometry, Spatio-Temporal Point Process Analysis, Stochastic Geometry, Shape Theory

【Department of Physical Science】

	Title	Name	Education and Research Fields
1	Professor	AIZAWA Naruhiko	Mathematical Physics, Algebraic Methods in Quantum Mechanics and Field Theory
2	Professor	IIDA Takuya	Bio-photophysics, Laser tweezers, Light-induced force, Fluctuation, Electromagnetic analysis, Nanophotonics, Photochemistry, Analytical science, Medical Physics,
3	Professor	ONISHI Toshikazu	Astrophysics, Radio Astronomy, Star Formation
4	Professor	KUBOTA Yoshiki	Structural Materials Science, Crystal Structure Analysis, Charge density analysis, X-ray Diffraction
5	Professor	TANAKA Satoshi	Quantum Mechanics, Nonequilibrium Statistical Mechanics, Quantum Optics, Theoretical Physics
6	Professor	NOGUCHI Satoru	Condensed Matter Physics under Extreme Conditions, Strongly Correlated Electron Systems, Experimental Physics
7	Professor	HOSOKOSHI Yuko	Magnetism, Molecular Materials, Low Temperature Physics, Micromachining, Electromagnetism, Experimental Physics
8	Professor	MIURA Daisuke	Volcano Geology, Volcano-Tectonics
9	Professor	MIZOGUCHI Kohji	Solid State Physics, Optical Properties of Condensed matter, Ultrafast Phenomena in Semiconductors and Nano-structures, Dynamics of Coherent Phonons and Excitons, THz Science
10	Associate Professor	ISHII Kazuhiko	Solid Earth Science, Dynamics of Subduction Zones
11	Associate Professor	OOHATA Goro	Solid State Physics, Optical Properties of Condensed Matter, Semiconductor Microcavity and Nano-Structure, Quantum Optics and Quantum Information Science, Experimental Physics
12	Associate Professor	ONO Toshio	Magnetism, Low Temperature Physics, Electromagnetism, Mechanics, Micromachining, Experimental Physics
13	Associate Professor	KAWAI Taketoshi	Solid State Physics, Optical Properties of Condensed Matter, Development of Phosphor and Scintillator Materials
14	Associate Professor	KANKI Kazuki	Quantum Mechanics, Statistical Mechanics, Nonequilibrium Phenomena, Transport Phenomena, Theoretical Physics
15	Associate Professor	KOSUGA Atsuko	Solid State Physics, Material Science, Electrical Transport Properties, Thermal Transport Properties, Thermoelectric Phenomena
16	Associate Professor	MAEZAWA Hiroyuki	Astrophysics, Planetary Science, THz Detector, Superconductivity
17	Associate Professor	MIZUGUCHI Tsuyoshi	Mathematical Physics of Biological Phenomena, Nonlinear Physics
18	Associate Professor	MURAOKA Kazuyuki	Astrophysics, Radio Astronomy, Star Formation in Galaxies
19	Associate Professor	YAMAGUCHI Hironori	Magnetism, Molecular Materials, Low Temperature Physics, Electromagnetism, Experimental Physics
20	Lecturer	ISHIBASHI Hiroyuki	Solid State Physics, Materials Science, Crystallography, X-ray Diffraction, Magnetism
21	Lecturer	NOBA Kenichi	Quantum Mechanics, Driven Quantum Systems, Open Quantum Systems, Theoretical Physics
22	Assistant Professor	Savannah GARMON	Quantum Mechanics, Open Quantum Systems, Resonance Phenomena, Theoretical Physics

【Department of Chemistry】

	Title	Name	Education and Research Fields
1	Professor	ASADA Toshio	Theoretical and Computational Molecular Science Development and Application of Computer Simulation Methods
2	Professor	OHASHI Masato	Organometallic Chemistry, Organofluorine Chemistry
3	Professor	KAMIKAWA Ken	Synthetic Organic Chemistry. Organometallic Chemistry, Asymmetric Synthesis
4	Professor	KOSEKI Shiro	Quantum Chemistry, Theoretical Chemistry, Computational Chemistry
5	Professor	TOYOTA * Masahiro	Evaluation of AI-Proposed Synthetic Routes Development of Novel One-Pot Reaction and Application to Pharmaceutical Synthesis
6	Professor	FUJIWARA Hideki	Physical Chemistry and Functional Material Chemistry Development of Molecular Functional Materials
7	Professor	MATSUZAKA Hiroyuki	Inorganic and Organometallic Chemistry Synthesis and Reactivity of Organotransition Metal Clusters
8	Professor	MATSUBARA Hiroshi	Fluorous Chemistry Computational Investigations into Reaction Mechanism
9	Associate Professor	KAMEO Hajime	Inorganic and Organometallic Chemistry Synthesis and Reactivity of Organotransition Metal Complexes
10	Associate Professor	TAKEMOTO Shin	Inorganic Chemistry and Catalysis New Functional Ligands for Transition Metal Catalysis
11	Associate Professor	FUKUYAMA Takahide	Organic Chemistry. Development of New Catalytic Transformation and Sustainable Chemical Processes
12	Associate Professor	FUJIHARA Akimasa	Physical Chemistry Analytical Chemistry
13	Lecturer	IWAMOTO Kenichi	Physical Chemistry Gas Phase Ion Chemistry, Mass Spectrometry
14	Lecturer	UEDA Mitsuhiro	Organic Chemistry. Development of New Catalytic Reactions Based on the Use of Organometallic Species and Organomolecule
15	Lecturer	KOJIMA Hideo	Bioorganic Chemistry Organic Synthesis by Biocatalyst
16	Lecturer	MAKINO Yasushi	Bioorganic Chemistry Structural and Functional Analysis of Biomolecules
17	Assistant Professor	SAKAMAKI Daisuke	Physical Organic Chemistry Development and Application of Open-shell π -Conjugated Systems
18	Assistant Professor	TSURUSAKI Akihiro	Organic and Organometallic Chemistry Catalytic Reaction and Synthesis of π -Conjugated Molecules
19	Assistant Professor	MICHIGAMI Kenichi	Organometallic and Synthetic Organic Chemistry Elemental Nature-Based Development of New Molecular Activation Methods

* Prof. TOYOTA will retire in March of 2021.

【Department of Biological Science】

	Title	Name	Education and Research Fields
1	Professor	IHARA Hideshi	Cell biology, Molecular biology, Biochemistry, Neurochemistry, Chemical biology, Redox biology
2	Professor	KATO Mikio	Molecular phylogenetics and evolution of aquatic insects, Studies on unusual DNA structures
3	Professor	KINOSHITA Takayoshi	Structural biology, Structure-based drug discovery, Molecular mechanism for signal transduction, Protein kinases
4	Professor	KODAMA Seiji	Radiation biology, Chromosome instability, Radiation effect on embryos, Biology of neural stem cells
5	Professor	SATOH Takaya	Cell biology, Intracellular signal transduction mediated by small GTPases, Molecular mechanisms for diabetes
6	Professor	TSUMURAYA Takeshi	Bioorganic chemistry, Chemical biology, Antibody engineering
7	Professor	NAKASE Ikuhiko	Pharmaceutical sciences, biofunctional-design chemistry, cell engineering
8	Professor	HARA Masayuki	Biotechnology, Tissue engineering, Biomaterials, Biopolymers, Neuroscience, Developmental biology, Cell biology, Stem cell
9	Professor	FUJII Ikuo	Chemical biology, Biochemistry, Bioorganic chemistry, Protein & peptide engineering, Medicinal chemistry
10	Professor	MIYAMOTO Kensuke	Plant physiology, Mode of action of phytohormones, Gravid responses in plants, Naturally-occurring plant growth substances
11	Associate Professor	ISHIHARA Michihiro	Ecology and evolution, Life history evolution of insects, insect-plant interactions
12	Associate Professor	ONDA Maki	Protein folding, Structural biology, Conformational diseases, Neurodegeneration, Biophysical chemistry
13	Associate Professor	KAWANISHI Masanobu	Environmental toxicology, Environmental mutagenesis, Biotechnology, Molecular biology
14	Associate Professor	KOBAYASHI Koichi	Plant physiology, Photosynthesis, Chloroplast biogenesis
15	Associate Professor	TAKEDA Satomi	Plant physiology, Plant cell culture, Photosynthesis
16	Associate Professor	TAKENAKA Nobuyuki	Molecular and cell biology, Intracellular signal transduction mediated by small GTPases, Analysis of mouse phenotype
17	Associate Professor	MORI Hideki	Biotechnology, Stem cell biology, Bioprocess engineering, Tissue engineering, Biomaterials, Neuroscience
18	Lecturer	EZOE Hideo	Mathematical ecology, Population dynamics, Evolutionary game theory, Evolution of mutualism
19	Lecturer	TOKUMOTO Hayato	Applied microbiology, Bioremediation, Analysis of intestinal bacterial community, Plant physiology
20	Lecturer	FUJIWARA Daisuke	Chemical biology, Peptide science, Directed evolution
21	Assistant Professor	KASAMATSU Shingo	Cell biology, Molecular biology, Biochemistry, Neurochemistry, Chemical biology, Redox biology
22	Assistant Professor	SHIRAISHI Kazunori	Radiation biology, Radio-adaptive response in vivo, Biology of neural stem cells
23	Assistant Professor	NISHINO Takako	Plant speciation, Plant molecular taxonomy, Plant ecology and evolution, Conservation botany
24	Assistant Professor	MICHIGAMI Masataka	Chemical biology, Biochemistry, Molecular biology, Peptide engineering
25	Assistant Professor	YOSHIHARA Shizue	Photobiology of plants, Biochemistry, Biophysical chemistry