

List of the Continuing Projects for Grant-in-Aid for Scientific Research (S) of KAKENHI

○ Broad Section A (12 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
18H05216	TAMURA Yoshiyuki 20197586	The University of Tokyo, Graduate Schools for Law and Politics, Professor	Cross-Sectional Review of Intellectual Property Laws from the Viewpoint of Fostering and Securing Public Domain	FY2018-2022	110,700
18H05217	WATANABE Tsutomu 90313444	The University of Tokyo, Graduate School of Economics, Professor	Central Bank Communication Design	FY2018-2022	144,500
18H05218	KATO Yasushi 90183780	Hitotsubashi University, Graduate School of Social Sciences, Professor	Towards a global standard of dignity as a philosophical concept: theoretical approaches, conceptual histories, and cross-cultural comparisons	FY2018-2022	130,500
18H05219	IKEDA Takumi 90259250	Kyoto University, Institute for Research in Humanities, Professor	A Study on the historical Development of the Sino-Tibetan Languages and their Typological Geography	FY2018-2022	130,400
18H05220	IKEDA Yoshifumi 40150627	University of the Ryukyus, Faculty of Global and Regional Studies, Professor	The Interdisciplinary Study regarding Conserving and Utilize Methods of the Mongol Shipwrecks	FY2018-2020	82,600
18H05221	BABA Hajime 70332195	National Institutes for Cultural Heritage, Nara National Research Institute for Cultural Properties, Department of Imperial Palace Sites Investigations, History Section, Chief	Development of Integrated Knowledge through Establishment of an Interactive Research Scheme based on the Open-Data of Research Resources for Wooden Tablets and Related Topics	FY2018-2022	96,100
19H05589	KOIZUMI Masatoshi 10275597	Tohoku University, Graduate School of Arts and Letters, Professor	Field-based Cognitive Neuroscientific Study of Word Order in Language and Order of Thinking from the OS Language Perspective	FY2019-2023	153,500
19H05590	NOZAWA Sachiko 10749302	The University of Tokyo, Graduate School of Education, Associate Professor	The longitudinal study on the effects of early childhood education and care on child development	FY2019-2023	85,500
19H05591	KAWAI Kaori 50293585	Tokyo University of Foreign Studies, The Research Institute for Languages and Cultures of Asia and Africa, Professor	The Origin and Evolution of Sociality: Developing new theories of human evolution based on collaboration between anthropology and primatology	FY2019-2023	130,400
19H05592	FUJII Sumio 90238527	Kanazawa University, Center for Cultural Resource Studies, Specially Appointed Professor	The Origin of the Tribal Society in the Near East: Comprehensive Study of the Pre- and Proto-historic Nomadic Cultures in the Arabian Peninsula	FY2019-2023	136,700
19H05593	MIYAMOTO Kazuo 60174207	Kyushu University, Faculty of Humanities, Professor	Holistic research on the spread and acculturation of early agriculture and on the process of establishment of herding society in East Asia	FY2019-2023	70,700
19H05594	MINAGAWA Yasuyo 90521732	Keio University, Faculty of Letters, Professor	Development of speech communication and its correlates of brain, cognition and motor system: A longitudinal cohort study of typically and atypically developing infants	FY2019-2023	147,300

○ Broad Section B (31 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
18H05222	YAMAMOTO Satoshi 80182624	The University of Tokyo, Graduate School of Science, Professor	Chemical Composition of Disk Forming Regions of Solar-type Protostars and its Evolution to Planetary Systems	FY2018-2022	144,500
18H05223	DOI Mamoru 00242090	The University of Tokyo, Graduate School of Science, Professor	Identifying the origin of the type-Ia supernova by observations just after the explosion	FY2018-2022	147,400

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
18H05224	KAGI Hiroyuki 70233666	The University of Tokyo, Graduate School of Science, Professor	Material Science of Hydrogen in the deep earth and planets	FY2018-2022	148,500
18H05225	KANODA Kazushi 20194946	The University of Tokyo, Graduate School of Engineering, Professor	Creation of a new discipline, quantum glass, for electronic systems and its development to material science	FY2018-2022	151,400
18H05226	IIJIMA Toru 80270396	Nagoya University, Center for Experimental Studies, Professor	Search for new symmetry violation in leptons	FY2018-2022	147,400
18H05227	MATSUDA Yuji 50199816	Kyoto University, Graduate School of Science, Professor	Rotational Symmetry Breaking in Strongly Correlated Quantum Matters	FY2018-2022	152,500
18H05228	TAKAHASHI Yoshiro 40226907	Kyoto University, Graduate School of Science, Professor	Exploration of new quantum condensed phase by exploiting orbital and spin degrees of freedom of ultracold atomic gases in an optical lattice	FY2018-2022	144,600
18H05229	SUGIYAMA Masaaki 10253395	Kyoto University, Institute for Integrated Radiation and Nuclear Science, Professor	Neutron Structural Biology for New Generation	FY2018-2022	151,600
18H05230	HATANAKA Kichiji 50144530	Osaka University, Research Center for Nuclear Physics, Specially Appointed Professor	Search for the neutron electric dipole moment and the time reversal violation	FY2018-2022	152,200
18H05231	KUNO Yoshitaka 30170020	Osaka University, Graduate School of Science, Professor	New Initiative on Search for Charged Lepton Flavor Violation with Highly Intense Muon Source	FY2018-2022	148,500
18H05232	KUBO Tomoaki 40312540	Kyushu University, Faculty of Science, Professor	Experimental study on syn-deformational reaction processes at high pressures: Implications for slab weakening and deep earthquakes	FY2018-2022	108,400
18H05233	BANNAI Kenichi 90343201	Keio University, Faculty of Science and Technology, Professor	Strategic research to construct motivic units using new symmetry	FY2018-2022	91,900
18H05234	KATSUKAWA Yukio 00399289	National Institutes of Natural Sciences, National Astronomical Observatory of Japan, Solar Science Observatory, Associate Professor	High Precision Polarimetric Observation by a Balloon-Borne Solar Telescope: Revealing Conversion Processes of Magnetic Energy in the Stellar Atmosphere	FY2018-2022	109,100
18H05235	YOKKAICHI Satoshi 20360670	RIKEN, Nishina Center, Senior Research Scientist	Origin of hadron mass studied by the systematic measurement of spectral change of mesons in nuclei	FY2018-2022	150,800
18H05236	HATSUDA Tetsuo 20192700	RIKEN, Interdisciplinary Theoretical and Mathematical Sciences, Program Director	From Quarks to Neutron Stars: Challenges in QCD	FY2018-2022	91,600
19H05595	YAMAMOTO Masanobu 16H06367	Hokkaido University, Faculty of Environmental Earth Science, Professor	Reconstruction of atmospheric carbon dioxide concentration during the last 6 million years and the study of the interaction between atmospheric carbon dioxide and climate	FY2019-2023	155,500
19H05596	HINO Ryota 00241521	Tohoku University, Graduate School of Science, Professor	Head and tail of massive earthquakes: Mechanism arresting growth of interplate earthquakes	FY2019-2023	154,900
19H05597	OGAWA Takayoshi 20224107	Tohoku University, Graduate School of Sciences, Professor	Creation of advanced method in mathematical analysis on nonlinear mathematical models of critical type	FY2019-2023	100,900
19H05598	ESUMI Shinichi 10323263	University of Tsukuba, Faculty of Pure and Applied Sciences, Institute of Physics, Associate Professor	Search for a critical point and first order phase transition of high density quark-nuclear matter via higher order fluctuations and particle correlations	FY2019-2023	79,500
19H05599	ISHIGE Kazuhiro 90272020	The University of Tokyo, Graduate School of Mathematical Sciences, Professor	Systematical geometric analysis and asymptotic analysis for evolution equations	FY2019-2023	107,500

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
19H05600	SAITOH Eiji 80338251	The University of Tokyo, Graduate School of Engineering, Professor	Investigation of nuclear spin-current science and nuclear thermoelectric conversion	FY2019-2023	158,700
19H05601	SAKEMI Yasuhiro 90251602	The University of Tokyo, Graduate School of Science, Professor	Study for the violation mechanism of fundamental symmetry using the cold atom/ molecular interferometer with optical lattice	FY2019-2023	154,200
19H05602	IWASA Yoshihiro 20184864	The University of Tokyo, Graduate School of Engineering, Professor	Physics and Functions of Van der Waals Heterostructures	FY2019-2023	154,600
19H05603	FUJISAWA Toshimasa 20212186	Tokyo Institute of Technology, School of Science, Department of Physics, Professor	Nonequilibrium states of low-dimensional quasiparticles in a mesoscopic quantum Hall system	FY2019-2023	153,500
19H05604	KAWABATA Takahiro 80359645	Osaka University, Graduate School of Science, Professor	Nucleosynthesis under the extreme conditions in the universe	FY2019-2023	132,600
19H05605	HAYASHI Yoshiyuki 20180979	Kobe University, Graduate School of Science, Professor	Comprehensive picture of atmospheric circulation of Venus revealed by AKATSUKI data assimilation	FY2019-2023	145,200
19H05606	UETAKE Satoshi 80514778	Okayama University, Research Institute for Interdisciplinary Science, Associate Professor	Precision test of electroweak theory and search for new physics beyond the Standard Model by laser spectroscopy of purely leptonic atoms	FY2019-2023	154,300
19H05607	OGIO Shoichi 20242258	Osaka City University, Graduate School of Science, Professor	Study of origins and propagation of very high energy cosmic rays with detailed measurements in the wide energy range	FY2019-2023	155,700
19H05608	TORII Shoji 90167536	Waseda University, Faculty of Science and Engineering, Professor Emeritus	Long-term observations to study the origins of Galactic Cosmic Rays and search for Dark Matter with CALET	FY2019-2023	154,800
19H05609	TAMAGAWA Toru 20333312	RIKEN, Cluster for Pioneering Research, Chief Scientist	Elucidation of ultra-strong magnetic field of neutron stars with highly-sensitive X-ray and Gamma-ray polarimetry	FY2019-2023	142,300
19H05610	TARUCHA Seigo 40302799	RIKEN, Center for Emergent Matter Science, Group Director	Electrical and optical creation and control of non-Abelian anyons	FY2019-2023	126,800

○ Broad Section C (17 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
18H05237	TOMITA Akihisa 60501434	Hokkaido University, Graduate School of Information Science and Technology, Professor	Information communication technology ensuring the long term security over a century	FY2018-2022	148,200
18H05238	YAMASHITA Shinji 40239968	The University of Tokyo, Research Center for Advanced Science and Technology, Professor	Study on digital frontier photonic sensing based on omnipotent fiber lasers	FY2018-2022	144,800
18H05239	ICHIMURA Tsuyoshi 20333833	The University of Tokyo, Earthquake Research Institute, Professor	Development of crust imaging enhanced by hetero-computing for reducing earthquake disaster	FY2018-2022	144,700
18H05240	KAWAHITO Shoji 40204763	Shizuoka University, Research Institute of Electronics, Professor	Ultimately-Time-Resolved Imaging Devices Using Ultrafast Hybrid Cascade Photo-Charge Modulators and Their Applications	FY2018-2022	147,600
18H05241	KITAMURA Takayuki 20169882	Kyoto University, Graduate School of Engineering, Professor	Design on Mechanical and Multi-Physics Properties of Nano-Structured Meta-Interface	FY2018-2022	150,700
18H05242	KAWANO Satoyuki 00250837	Osaka University, Graduate School of Engineering Science, Professor	Dynamical flow control of nanoparticles by machine learning and its application to single molecule identification technologies	FY2018-2022	119,000

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
18H05243	YANAGIDA Takeshi 50420419	Kyushu University, Institute of Material Chemistry and Engineering, Professor	Fundamental Study of Robust Molecule Recognition Electronics	FY2018-2022	150,200
18H05244	ISHIYAMA Atsushi 00130865	Waseda University, Graduate School of Science and Engineering, Professor	Establishment of design principle and basic technology for next generation medical high temperature superconducting skeleton-cyclotron	FY2018-2022	148,800
18H05245	TERAI Hiroataka 10359094	National Institute of Information and Communications Technology, Advanced ICT Research Institute, Executive Researcher	Development of new imaging technology based on superconducting single-photon camera	FY2018-2022	149,400
19H05611	TAKAKI Koichi 00216615	Iwate University, Faculty of Science and Engineering, Professor	Novel function control of plant and marine products by pulsed power and its scientifically deepening	FY2019-2023	153,100
19H05612	SAKUMA Akimasa 30361124	Tohoku University, Graduate School of Science and Engineering, Professor	Establishment of the new method for material synthesis utilizing light elements and their expansion to develop rare- earth-free magnet	FY2019-2023	146,400
19H05613	AOKI Takayuki 00184036	Tokyo Institute of Technology, Global Scientific Information and Computing Center, Professor	Innovative CFD simulation for multiphase flows including free surfaces	FY2019-2023	149,700
19H05614	YOSHIKAWA Nobuyuki 70202398	Yokohama National University, Graduate school of Engineering, Professor	Creation of extremely energy-efficient integrated circuit technology beyond the thermodynamic limit based on reversible quantum flux circuits	FY2019-2023	153,500
19H05615	YAMASHITA Taro 60567254	Nagoya University, Graduate School of Engineering, Associate Professor	Large-scale superconducting spintronics quantum computing circuits toward the realization of quantum supremacy	FY2019-2023	156,600
19H05616	HAMAYA Kohei 90401281	Osaka University, Graduate School of Engineering Science, Professor	Development of a germanium spin MOSFET	FY2019-2023	155,500
19H05617	KISS Takanobu 00221911	Kyushu University, Research Institute of Superconductor Science and Systems, Professor	Systematization of characterization technologies for high-temperature superconducting wires, conductors and coil windings, and their development to highly reliable magnets	FY2019-2023	153,800
19H05618	FUJIMURA Norifumi 50199361	Osaka Prefecture University, Graduate School of Engineering, Professor	Establishment of evaluation methods for the physical properties of ferroelectrics using coherent state of the elementary excitation and the device applications	FY2019-2023	156,200

○ Broad Section D (23 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
18H05246	TAKANASHI Koki 00187981	Tohoku University, Institute for Materials Research, Professor	Renaissance of Metallic Superlattices	FY2018-2022	150,900
18H05247	TOMISHIGE Keiichi 50262051	Tohoku University, Graduate School of Engineering, Professor	Design and development of novel active sites on heterogeneous catalysts using direct interaction of molecules with solid surfaces	FY2018-2022	146,900
18H05248	AWAJI Satoshi 10222770	Tohoku University, Institute for Materials Research, Professor	Magnet technology development for 50T cryogen-free high temperature superconducting magnet	FY2018-2021	146,100
18H05249	ICHITSUBO Tetsu 40324826	Tohoku University, Institute for Materials Research, Professor	Construction of new mechanism for dual-ion storage batteries concerted by lithium and multivalent ions	FY2018-2022	152,800
18H05250	ITATANI Jiro 50321724	The University of Tokyo, the Institute for Solid State Physics, Associate Professor	Evolution of Attosecond Science by Next-generation Ultrashort-pulse Lasers	FY2018-2022	150,300

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
18H05251	HARA Michikazu 70272713	Tokyo Institute of Technology, Institute of Innovative Research, Professor	Low temperature ammonia synthesis by heterogeneous catalysts enhancing electron-donating power	FY2018-2022	146,600
18H05253	TAKAHASHI Yukio 00415217	Tohoku University, Institute of Multidisciplinary Research for Advanced Materials, Professor	Creation of platform for the next generation synchrotron radiation microspectroscopy by multi-dimensional X-ray ptychography	FY2018-2022	136,400
18H05254	NAKANO Takayoshi 30243182	Osaka University, Graduate School of Engineering, Professor	"Materials Science of Anisotropy" for induction of bone tissue anisotropy	FY2018-2022	148,800
18H05255	TATSUMISAGO Masahiro 50137238	Osaka Prefecture University, President	Dynamics of Composite Electrodes in All-Solid-State Ionics Devices	FY2018-2022	143,400
18H05256	AMEYAMA Kei 10184243	Ritsumeikan University, College of Science and Engineering, Professor	Clarification of innovative deformation mechanism in harmonic structure materials and creation of design principle for structure materials for next generation	FY2018-2022	155,000
18H05257	KIM Yousoo 50373296	RIKEN, Cluster for Pioneering Research, Chief Scientist	Scanning tunneling microscopy for the development of ultimate nano-optics	FY2018-2022	150,600
18H05258	FUJIWARA Akira 70393759	NTT Basic Research Laboratories, Physical Science Laboratory, Senior Distinguished Scientist	Quantum Standards and Ultimate Precision Measurements Based on Single Electrons	FY2018-2022	151,400
19H05619	Oliver B. Wright 90281790	Hokkaido University, Graduate School of Engineering, Professor	Development and quantitative interpretation of acoustic and phoxonic metamaterial devices from kHz to GHz frequencies	FY2019-2021	107,700
19H05620	SUGIMOTO Satoshi 10171175	Tohoku University, Graduate School of Engineering, Professor	Development of a Wideband Microwave Absorber – Contributing to the Internet of Things Society Through Dual-phase Engineering	FY2019-2023	122,600
19H05621	KOMEDA Tadahiro 30312234	Tohoku University, Institute of Multidisciplinary Research for Advanced Materials, Professor	Development of Spin Coherent Microscopy with Time and Space Resolutions Dedicated for Quantum Information Processes	FY2019-2023	147,100
19H05622	FUKAMI Shunsuke 60704492	Tohoku University, Research Institute of Electrical Communication, Professor	Non-collinear spintronics	FY2019-2023	155,500
19H05623	OKABE Toru 00280884	The University of Tokyo, Institute of Industrial Science, Professor	Development of a new upgrade recycling technology for titanium	FY2019-2023	155,300
19H05624	NOJI Hiroyuki 00343111	The University of Tokyo, Graduate School of Engineering, Professor	Dynamic femtoliter reactor technology for next generation digital bioassays	FY2019-2023	138,800
19H05625	AZUMA Masaki 40273510	Tokyo Institute of Technology, Institute of Innovative Research, Laboratory for Materials and Structures, Professor	Novel Negative Thermal Expansion Materials for Thermal Expansion Control	FY2019-2023	155,000
19H05626	SHIMIZU Hiroshi 00226250	Osaka University, Graduate School of Information Science and Technology, Professor	High performance microbial cell factories development by model based metabolic design and adaptive laboratory evolution	FY2019-2023	144,200
19H05627	TAMADA Kaoru 80357483	Kyushu University, Institute for Materials Chemistry and Engineering, Professor	Super-resolution live-cell imaging of cell-attached nanointerface using LSPR sheets	FY2019-2023	149,100
19H05628	MIDORIKAWA Katsumi 40166070	RIKEN, Center for Advanced Photonics, Director	Attosecond Science in the sub-keV region	FY2019-2023	152,400
19H05629	OTANI Yoshichika 60245610	RIKEN, Center for Emergent Matter Science, Professor	Efficient spin current generation based on coherent magnetoelastic strong coupling state	FY2019-2023	137,200

○ Broad Section E (14 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
18H05259	NOZAKI Kyoko 60222197	The University of Tokyo, Graduate School of Engineering, Professor	Catalytic Bond-Cleavage Reactions toward Utilization of Renewable Resources	FY2018-2022	147,900
18H05260	AIDA Takuzo 00167769	The University of Tokyo, Graduate School of Engineering, Professor	Multiscale Interfacial Molecular Science for Innovative Functional Materials	FY2018-2022	148,800
18H05261	YAMAGUCHI Shigehiro 60260618	Nagoya University, Institute of Transformative Bio-Molecules, Professor	Chemistry of Boron-Containing π -Electron Materials	FY2018-2022	149,000
18H05262	KITAGAWA Susumu 20140303	Kyoto University, Institute for Advanced Study, Institute for Integrated Cell-Material Sciences, Distinguished Professor	Chemistry of Adaptable Space	FY2018-2022	149,500
18H05263	ABE Jiro 70211703	Aoyama Gakuin University, College of Science and Engineering, Professor	Creative Research and Development of Incoherent Nonlinear Photoswitchable Molecules	FY2018-2022	149,700
18H05264	NAKAI Hiromi 00243056	Waseda University, Faculty of Science and Engineering, Professor	Clarification of Ubiquitous Proton Function in Photoreceptive Proteins by Quantum Molecular Dynamics Simulations	FY2018-2022	151,100
18H05265	TAHARA Tahei 60217164	RIKEN, Cluster for Pioneering Research, Chief Scientist	Exploring Interface Science by Concerted Use of Advanced Spectroscopy and Theory	FY2018-2022	148,400
19H05630	HAYASHI Yujiro 00198863	Tohoku University, Graduate School of Science, Professor	Practical synthesis of rare and structurally complex natural products and the development of the molecules with better biological functions	FY2019-2023	133,300
19H05631	YAMASHITA Masahiro 60167707	Tohoku University, Graduate School of Science, Visiting Researcher	Innovative Functions Originating from Unexploited Electronic States in Nanowire Metal Complexes	FY2019-2023	152,900
19H05632	URANO Yasuteru 20292956	The University of Tokyo, Graduate School of Pharmaceutical Sciences, Professor	Comprehensive search of cancer specific enzymatic activities and creation of innovative neutron capture therapy probe	FY2019-2023	154,100
19H05633	Robert E. Campbell 40831318	The University of Tokyo, Graduate School of Science, Professor	Directed Evolution of a Palette of Optogenetic and Chemi-Optogenetic Indicators for Multiplexed Imaging of Cellular Metabolism	FY2019-2023	155,000
19H05634	TERANISHI Toshiharu 50262598	Kyoto University, Institute for Chemical Research, Professor	Nanoscale Element Replacement Science: Structural Transformation of Nanocrystalline Phases and Development of Novel Functions	FY2019-2023	155,100
19H05635	TOKITOH Norihiro 90197864	Kyoto University, Institute for Chemical Research, Professor	New Main Group Element Chemistry and Materials Science Based on Heavy Aryl Anions	FY2019-2023	154,700
19H05636	MIYASAKA Tsutomu 00350687	Toin University of Yokohama, Project Professor	Efficiency and durability enhancement of solar cells using lead-free high dimensional halide perovskite materials	FY2019-2023	151,900

○ Broad Section F (8 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
18H05266	ASAMI Tadao 90231901	The University of Tokyo, Graduate School of Agricultural and Life Sciences, Professor	Development of basic technology of chemistry and biology for reducing damage by root parasitic weeds	FY2018-2022	151,600
18H05267	TOUHARA Kazushige 00280925	The University of Tokyo, Graduate School of Agricultural and Life Sciences, Professor	Identification of primer pheromones in mammals and elucidation of a neural basis for the pheromone action	FY2018-2022	147,600

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
18H05268	MATSUURA Kenji 40379821	Kyoto University, Graduate School of Agriculture, Professor	Antiaging system of long-lived termite kings	FY2018-2022	149,600
18H05269	UEDA Kazumitsu 10151789	Kyoto University, Institute for Advanced Study, Program-Specific Professor	Uncovering the secrets of lipid-transporting ABC proteins	FY2018-2022	148,900
19H05637	FUJIWARA Toru 80242163	The University of Tokyo, Graduate School of Agricultural and Life Sciences, Professor	Study on the mechanism of nutrient recognition and coordination of nutrient response in plants	FY2019-2023	153,900
19H05638	YAZAKI Kazufumi 00191099	Kyoto University, Research Institute for Sustainable Humanosphere, Professor	Molecular basis of bulk transport machinery playing key roles in lipid secretion in plant cells	FY2019-2023	127,400
19H05639	TAKAGI Hiroshi 50275088	Nara Institute of Science and Technology, Graduate School of Science and Technology, Professor	Integrated understanding of nitric oxide in yeasts and fungi and its application to microbial breeding and drug development	FY2019-2023	153,800
19H05640	YOSHIDA Minoru 80191617	RIKEN, Center for Sustainable Resource Science, Deputy Director	Innovative chemical genetics on novel function of endogenous metabolites	FY2019-2023	154,700

○ Broad Section G (15 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
18H05270	UEDA Hiroki 20373277	The University of Tokyo, Graduate School of Medicine, Professor	Designing the mammalian biological oscillators	FY2018-2022	154,100
18H05271	TOMARI Yukihide 90447368	The University of Tokyo, Institute for Quantitative Biosciences, Professor	Biochemical approaches to understanding the reaction platforms of the piRNA pathway	FY2018-2022	148,900
18H05272	SUZUKI Tsutomu 20292782	The University of Tokyo, Graduate School of Engineering, Professor	Dynamic regulation of RNA modification and biological process	FY2018-2022	149,800
18H05273	ARIKAWA Kentaro 20167232	SOKENDAI – The Graduate University for Advanced Studies, School of Advanced Sciences, Professor	Spectral opponency in photoreceptors : neuroethological analysis	FY2018-2022	154,000
18H05274	MATSUBAYASHI Yoshikatsu 00313974	Nagoya University, Graduate School of Science, Professor	Molecular dissection of peptide signaling in plants	FY2018-2022	148,100
18H05275	NAKANO Akihiko 90142140	RIKEN, Center for Advanced Photonics, Deputy Director	Full elucidation of sorting mechanisms in and around the Golgi apparatus by super-resolution live imaging	FY2018-2022	148,300
18H05276	HIRANO Tatsuya 50212171	RIKEN, Cluster for Pioneering Research, Chief Scientist	Molecular mechanisms of condensins I and II	FY2018-2022	148,800
19H05641	KONDOH Michio 30388160	Tohoku University, Graduate School of Life Sciences, Professor	Regime shifts in coastal marine ecosystems: an empirical approach based on advanced monitoring and nonlinear dynamical theory	FY2019-2023	153,700
19H05642	OHKI Kenichi 50332622	The University of Tokyo, Graduate School of Medicine, Professor	Elucidation of cognitive and learning mechanism of cerebral cortex by multiscale optogenetics	FY2019-2023	156,200
19H05643	YOSHIMURA Takashi 40291413	Nagoya University, Graduate School of Bioagricultural Sciences, Professor	Understanding the seasonal adaptation mechanism and its application	FY2019-2023	153,500

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
19H05644	MORI Ikue 90219999	Nagoya University, Graduate School of Science, Professor	Dissecting the mechanism underlying behavioral regulation through real-time spatiotemporal manipulation of neural circuits	FY2019-2023	121,700
19H05645	SUGITA Yuji 80311190	RIKEN, Cluster for Pioneering Research, Chief Scientist	Multi-scale molecular dynamics simulation on biomolecular dynamics in crowded cellular environments	FY2019-2023	152,400
19H05646	Thomas McHugh 50553731	RIKEN, Center for Brain Science, Team Leader	Elucidating the Dynamics of Memory	FY2019-2023	127,900
19H05647	SAKO Yasushi 20215700	RIKEN, Cluster for Pioneering Research, Chief Scientist	Comprehensive approach toward understanding cell surface receptor functions coupled with membrane structure and lipid composition	FY2019-2023	117,700
19H05648	ENDO Tamao 30168827	Tokyo Metropolitan Geriatric Hospital and Institute of Gerontology, Senior Fellow	Biology of sugar-alcohol modification in glycan	FY2019-2023	135,000

○ Broad Section H (7 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
18H05277	AKAIKE Takaaki 20231798	Tohoku University, Graduate School of Medicine, Professor	Sulfur-mediated energy metabolism, sulfur respiration: Its discovery and physiological functions	FY2018-2022	40,500
					148,700
18H05278	TAKEUCHI Osamu 10379092	Kyoto University, Institute for Frontier Life and Medical Sciences, Professor	Analysis of immune regulatory mechanisms mediated by mRNA metabolism	FY2018-2022	32,000
					148,900
18H05279	ARASE Hisashi 10261900	Osaka University, Research Institute for Microbial Diseases, Professor	Studies on the regulation of infection and immunity via paired receptors	FY2018-2022	32,000
					148,800
19H05649	YAMAMOTO Masayuki 50166823	Tohoku University, Graduate School of Medicine, Professor	Deciphering Molecular Basis for the Anti-Oxidative Stress Response and Application of the Basis for Disease Prevention and Therapy	FY2019-2023	32,700
					153,000
19H05650	NAKAYAMA Toshinori 50237468	Chiba University, Graduate School of Medicine, Professor	Elucidation of pathogenic immunological memory to understand the pathogenesis of intractable inflammatory diseases	FY2019-2023	49,500
					155,400
19H05651	KITAGAWA Daiju 80605725	The University of Tokyo, Graduate School of Pharmaceutical Sciences, Professor	Comprehensive analysis of molecular machineries for mitotic spindle formation in human cells and its application to development of next generation anti-cancer drug.	FY2019-2023	33,000
					153,800
19H05652	SAITO Kazuki 00146705	RIKEN, Center for Sustainable Resource Science, Director	Genomic origin of chemodiversity in medicinal plants	FY2019-2023	46,000
					154,600

○ Broad Section I (15 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
18H05280	KIYONO Hiroshi 10271032	The University of Tokyo, The Institute of Medical Science, Distinguished Professor	Multi Regulatory System for Gut Homeostasis and Inflammation	FY2018-2022	147,200
18H05281	SHINOHARA Takashi 30322770	Kyoto University, Graduate School of Medicine, Professor	Molecular Analysis of Spermatogonial Stem Cell Aging	FY2018-2022	148,800
18H05282	KUMANOGOH Atsushi 10294125	Osaka University, Graduate School of Medicine, Professor	Investigation on pathological implications of guidance molecules in neuro-immune-metabolism	FY2018-2022	147,800

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
18H05283	KOMORI Toshihisa 00252677	Nagasaki University, Graduate School of Biomedical Sciences, Professor	Elucidation of the mechanism in the regulation of chondrocyte-specific Runx2 enhancer and development of the drug for osteoarthritis	FY2018-2022	148,800
18H05284	SUDA Toshio 60118453	Kumamoto University, International Research Center for Medical Sciences, Distinguished Professor	Self-Renewal Capacity of Hematopoietic Stem Cells through the Regulation of Mitochondrial Metabolism	FY2018-2022	140,000
18H05285	YAMAMOTO Kazuhiko 80191394	RIKEN, Center for Integrative Medical Sciences, Deputy Director	Establishment of a novel strategy for pathological analysis of multifactorial diseases using genetic risk variants	FY2018-2022	148,800
18H05286	MORO Kazuyo 90468489	Osaka University, Graduate School of Medicine, Department of Microbiology and Immunology, Laboratory for Innate Immune Systems, Professor	Role of ILC2 in idiopathic interstitial pneumonia	FY2018-2022	148,200
18H05287	NISHIMURA Yukio 20390693	Tokyo Metropolitan Institute of Medical Science, Department of Dementia and Higher Brain Function, Neural Prosthesis Project, Project Leader	Neural Mechanisms of Functional Recovery via Artificial Neural Connection	FY2018-2022	113,200
19H05653	IWAMA Atsushi 70244126	The University of Tokyo, The Institute of Medical Science, Professor	Deciphering of the epigenetic machinery that determines the hallmarks of hematopoietic stem cell aging	FY2019-2023	153,800
19H05654	TANAKA Sakae 50282661	The University of Tokyo, The University of Tokyo Hospital, Professor	Establishment of an integrated locomotive science including dynamics of bone-articular cells and regulation by immune system	FY2019-2023	154,300
19H05655	ISHIKAWA Fuyuki 30184493	Kyoto University, Graduate School of Biostudies, Professor	Anti-cancer therapies aiming for cure through inhibiting tumor-specific responses to environmental fluctuation	FY2019-2022	128,100
19H05656	OGAWA Seishi 60292900	Kyoto University, Graduate School of Medicine, Professor	Comprehensive studies on the molecular basis of early development and clonal evolution in cancer using advanced genomics.	FY2019-2023	153,800
19H05657	ISHII Masaru 10324758	Osaka University, Graduate School of Frontier Biosciences, Professor	Identification and control of pathogenic osteoclasts	FY2019-2023	153,700
19H05658	TSUDA Makoto 40373394	Kyushu University, Graduate School of Pharmaceutical Sciences, Professor	Elucidation of abnormal functioning of neuronal circuits underlying neuropathic pain and its application for drug discovery	FY2019-2023	153,700
19H05659	NODA Masaharu 60172798	Tokyo Institute of Technology, Institute of Innovative Research, Cell Biology Center, Professor	Integrative study of brain mechanisms to induce hypertension	FY2019-2023	140,500

○ Broad Section J (10 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
18H05288	MOTOMURA Masato 90574286	Tokyo Institute of Technology, Institute of Innovative Research, Professor	Innovative Self-Learnable Architecture Platform for Accelerating Intelligent Computing	FY2018-2022	148,300
18H05289	SAKIYAMA Kazuo 80508838	The University of Electro-Communications, Graduate School of Informatics and Engineering, Professor	Resilience Enhancement of IoT Ecosystem by Cryptographic Technologies	FY2018-2022	149,500
18H05290	TANIGUCHI Masanobu 00116625	Waseda University, Graduate School of Science and Engineering, Professor	Introduction of general causality to various observations and the innovation for its optimal statistical inference	FY2018-2022	140,600

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
18H05291	KAWARABAYASHI Ken-ichi 40361159	Research Organization of Information and Systems, National Institute of Informatics, Principles of Informatics Research Division, Professor	Large Graphs: Theory and Algorithms	FY2018-2022	148,500
19H05660	KAGEURA Kyo 00211152	The University of Tokyo, Graduate School of Education, Professor	Developing a translation process model and constructing an integrated translation environment through detailed descriptions of translation norms and competences	FY2019-2023	136,700
19H05661	HIROSE Michitaka 40156716	The University of Tokyo, Research Center for Advanced Science and Technology, Specially appointed researcher	Psychological foundations of body scheme transformation via co-embodiment in virtual reality and its application	FY2019-2023	154,200
19H05662	NAKAJIMA Kengo 20376528	The University of Tokyo, Information Technology Center, Professor	Innovative Methods for Scientific Computing in the Exascale Era by Integrations of (Simulation+Data+Learning)	FY2019-2023	152,700
19H05663	UENO Maomi 50262316	The University of Electro-Communications, Graduate School of Informatics and Engineering, Professor	Development of e-Testing platform ensuring sustainable reliability	FY2019-2023	123,900
19H05664	HASHIMOTO Masanori 80335207	Osaka University, Graduate School of Information Science and Technology, Professor	Muon-induced soft error evaluation platform: future prediction based on measurement and simulation	FY2019-2023	156,300
19H05665	HIGASHINO Teruo 80173144	Osaka University, Graduate School of Information Science and Technology, Professor	Context Recognition of Humans and Objects by Distributed Zero-Energy IoT Devices	FY2019-2023	154,000

○ Broad Section K (8 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
18H05292	IIZUKA Yoshinori 40370043	Hokkaido University, Institute of Low Temperature Science, Associate Professor	Construction of world's most reliable deposited-aerosol database on the Anthropocene (from 1850 to 2020)	FY2018-2022	147,000
18H05293	KUMAGAI Yoshito 00250100	University of Tsukuba, Faculty of Medicine, Professor	Environmental electrophiles exsopome and reactive sulfur species as its regulator molecule	FY2018-2022	150,200
18H05294	FUJITA Shuji 30250476	Research Organization of Information and Systems, National Institute of Polar Research, Professor	Study on physics and layers of ice cores containing information of climate change over the past 720 k-years, and study on the "oldest ice"	FY2018-2022	88,600
18H05295	KAMAGATA Yoichi 70356814	National Institute of Advanced Industrial Science and Technology (AIST), Department of Life Science and Biotechnology, Visiting Scientist	Methanogenesis from root organic matters in deep subsurface	FY2018-2022	148,800
19H05666	HIRANO Takashi 20208838	Hokkaido University, Research Faculty of Agriculture, Professor	Effects of land conversion from tropical peat swamp forest to oil palm plantations on ecosystem functions and the atmospheric environment	FY2019-2023	119,200
19H05667	NAGATA Toshi 40183892	The University of Tokyo, Atmosphere and Ocean Research Institute, Professor	Aggregate-biosphere: Unveiling hidden regulatory processes in the oceanic carbon cycle	FY2019-2023	154,300
19H05668	HIYAMA Tetsuya 30283451	Nagoya University, Institute for Space-Earth Environmental Research, Professor	Pan-Arctic Water-Carbon Cycles	FY2019-2023	154,700
19H05669	TAKEMURA Toshihiko 90343326	Kyushu University, Research Institute for Applied Mechanics, Professor	Assessment on climate impacts of short-lived climate forcers by composition and region with hierarchical numerical models	FY2019-2023	153,900

(1) Integrated Disciplines (31 Projects)

○ Informatics (11 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
16H06299	MATSUI Shigeyuki 80305854	Nagoya University, Graduate School of Medicine, Professor	Comprehensive research on statistical methodologies and their applications for development of personalized medicine	FY2016-2020	87,500
16H06300	HANYU Takahiro 40192702	Tohoku University, Research Institute of Electrical Communication, Professor	Basic Research of a Dark-Silicon-Based Logic-LSI Technology for Brainware Computing	FY2016-2020	127,100
16H06301	FUJITA Kazuo 80183101	Kyoto University, Graduate School of Letters, Professor Emeritus	Acquisition of the independence of mind: Evolution	FY2016-2020	142,900
16H06302	BABAGUCHI Noboru 30156541	Osaka University, Graduate School of Engineering, Professor	Communication System for Defending against Attacks of Media Clones	FY2016-2020	120,700
16H06303	SHINODA Hiroyuki 40226147	The University of Tokyo, Graduate School of Frontier Sciences, Professor	Systematic Study on Human Response to Noncontact Distributed Haptic Stimulation and Its Applications	FY2016-2020	130,700
16H06304	OGATA Hiroaki 30274260	Kyoto University, Academic Center for Computing and Media Studies, Professor	Educational Cloud Platform for Improving Education and Learning by Using Educational Big Data	FY2016-2020	140,900
17H06099	HU Zhanjiang 50292769	Research Organization of Information and Systems, Information Systems Architecture Science Research Division, Professor by Special Appointment	Software Foundation for Interoperability of Autonomic Distributed Data based on Bidirectional Transformations	FY2017-2021	133,500
17H06100	UCHIDA Seiichi 70315125	Kyushu University, Faculty of Information Science and Electrical Engineering, Professor	From Text Engineering to Text Science	FY2017-2021	116,000
17H06101	NAKAMURA Satoshi 30263429	Nara Institute of Science and Technology, Data Science Center, Professor	Next Generation Speech Translation Research	FY2017-2021	157,100
17H06102	NAGAHARA Hajime 80362648	Osaka University, Institute for Datability Science, Professor	Computational Optical Imaging for Endoscopic Surgery	FY2017-2021	115,800
17H06103	SATOH Ken 00271635	Research Organization of Information and Systems, National Institute of Informatics, Principles of Informatics Research Division, Professor	Advanced Reasoning Support for Judicial Judgment by Artificial Intelligence	FY2017-2021	113,600

○ Environmental Science (6 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
16H06305	KAJII Yoshizumi 40211156	Kyoto University, Graduate School of Global Environmental Studies, Professor	Precise analysis of HOx cycle in the air by novel techniques and new development of oxidants and aerosols chemical dynamics	FY2016-2020	139,600
16H06306	TAKEDA Shunichi 60188191	Kyoto University, Graduate School of Medicine, Professor	Establishment of Novel Bioassays for in vivo Genotoxicity Prediction and Mechanism Characterization	FY2016-2020	140,900
16H06307	SUGASAWA Kaoru 70202124	Kobe University, Biosignal Research Center, Professor	Molecular mechanisms underlying higher-order regulation of DNA damage recognition for nucleotide excision repair	FY2016-2020	133,500
16H06308	TAKANO Hirohisa 60281698	Kyoto University, Graduate School of Global Environmental Studies, Professor	Comprehensive and systematic study for control/eradication of allergic diseases via environmental and medical approaches	FY2016-2020	139,000

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
17H06104	ABE Ayako 30272537	The University of Tokyo, Atmosphere and Ocean Research Institute, Professor	Understanding the interaction between ice sheets, ocean and atmosphere under large scale climate changes of the past	FY2017-2021	157,600
17H06105	YOSHIDA Naohiro 60174942	Tokyo Institute of Technology, School of Materials and Chemical Technology, Professor	Environmental diagnosis with isotopologue tracers	FY2017-2021	162,400

○ Complex Systems (14 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
16H06309	KAN Hironobu 20294390	Kyushu University, Graduate School of Integrated Sciences for Global Society, Professor	Advanced Interdisciplinary Research on Coastal Areas based on Shallow Seafloor Geomorphology: Development of a Paradigm through 3D Seafloor Mapping	FY2016-2020	126,600
16H06310	KATO Teruyuki 80134633	Hot Springs Research Institute of Kanagawa Prefecture, Others, Director	A challenge to develop GNSS buoy system for high-functional tsunami monitoring and continuous observation of ocean-bottom crustal movements	FY2016-2020	141,900
16H06311	TSUBOKI Kazuhisa 90222140	Nagoya University, Institute for Space-Earth Environmental Research, Professor	Dynamical, thermodynamical and cloud-microphysical studies of violent wind and heavy rain-producing tropical cyclones: Quantitative improvement of intensity estimations/forecasts	FY2016-2020	136,600
16H06312	TEI Yuichi 30345053	The University of Tokyo, Graduate School of Engineering, Professor	Development of "4-dimensional scaffold system" that integrates signaling factors and 3-dimensional structural biomaterials	FY2016-2020	126,600
16H06313	AKIYOSHI Kazunari 90201285	Kyoto University, Graduate School of Engineering, Professor	Development of nanogel hybrid materials for medical application	FY2016-2020	133,100
16H06314	KURODA Shunichi 60263406	Osaka University, The Institute of Scientific and Industrial Research, Professor	Development of Neo-Bionanocapsules: Drug and Gene Delivery System to Wide Range Tissues with Virus-derived Functional Domains	FY2016-2020	139,100
16H06315	MURATA Michio 40183652	Osaka University, Graduate School of Science, Professor	Dynamic structure and domain formation of membrane lipids in model bilayer systems	FY2016-2020	140,600
16H06316	TAKUMI Toru 00222092	RIKEN, Center for Brain Science, Team Leader	Integrative Biology of Autism Spectrum Disorder	FY2016-2020	139,200
16H06317	OKAMOTO Hitoshi 40183769	RIKEN, Center for Brain Science, Laboratory for Neural Circuit Dynamics of Decision Making, Team Leader	Neural circuit mechanisms controlling social conflicts	FY2016-2020	142,900
17H06107	SHIROUZU Hajime 60333168	The University of Tokyo, Center for Research and Development on Transition from Secondary to Higher Education, Professor	Renovating Assessment for the Future: Design-Based Implementation Research for a Learning-in-Class Monitoring System Based on the Learning Sciences	FY2017-2021	154,500
17H06108	KOSHIMURA Shunichi 50360847	Tohoku University, International Research Institute of Disaster Science, Professor	Fusion of sensing and simulation of tsunami damage assessment towards innovation of disaster medical system	FY2017-2021	156,900
17H06109	YOKOTA Takanori 90231688	Tokyo Medical and Dental University, Graduate School of Medical and Dental Sciences, Professor	Development of heteroduplex oligonucleotide crossing the blood-brain barrier	FY2017-2021	133,100
17H06110	INOUE Masayuki 70322998	The University of Tokyo, Graduate School of Pharmaceutical Sciences, Professor	Expanding the medicinally relevant chemical space with architecturally complex natural products and their synthetic analogues	FY2017-2021	157,800
17H06113	IINO Yuichi 40192471	The University of Tokyo, Graduate School of Science, Professor	Dissection of molecules and neural circuits underlying a behavioral switch	FY2017-2021	156,800

(2) Humanities and Social Sciences (12 Projects)

○ Humanities (6 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
16H06320	TAKEZAWA Yasuko 70227015	Kyoto University, Institute for Research in Humanities, Professor	Integrated Research into the Processes and Mechanisms of Racialization	FY2016-2020	116,100
17H06114	NAGASHIMA Yuji 50138137	Kogakuin University, Faculty of Informatics, Professor	Research into Constructing a Japanese Sign Language Multi-Dimensional Database	FY2017-2020	109,200
17H06115	KARIMATA Shigehisa 50224712	University of the Ryukyus, Research Institute for Islands and Sustainability, Professor	Comparative historical research on Ryukyuan by using linguistic family trees	FY2017-2021	135,600
17H06116	SHIROYAMA Tomoko 60281763	The University of Tokyo, Graduate School of Economics, Professor	The Hydrosphere and Socioeconomics in Modern Asia - Exploring a New Regional History Using a Database and Spatial Analysis	FY2017-2021	140,800
17H06117	TAJIMA Isao 80292796	The University of Tokyo, Historiographical Institute, Professor	Advancing Japanese Bibliographics and Improving the Accessibility of Documents Held by Royal and Aristocratic Archives - Clarifying the Structure and Transmission of Knowledge Systems	FY2017-2021	157,000
17H06118	NAKATSUKA Takeshi 60242880	Nagoya University, Graduate School of Environmental Studies, Professor	Reorganization of prehistorical structure of calendar age and evaluation of climate change effect in Japanese archipelago using tree ring oxygen isotope ratios	FY2017-2021	160,000

○ Social Sciences (6 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
16H06318	MATSUDA Motoji 50173852	Kyoto University, Graduate School of Letters, Professor	"African Potential" and overcoming the difficulties of modern world: comprehensive area studies that will provide a new perspective for the future of humanity	FY2016-2020	140,000
16H06321	SATO Iwao 80154037	The University of Tokyo, Institute of Social Science, Professor	Research on Disputing Behavior and Judicial Policy in the Super-Aging Society	FY2016-2020	127,700
16H06322	FUKAO Kyoji 30173305	Hitotsubashi University, Institute of Economic Research, Professor	Service Sector Productivity in Japan: Determinants and Policies	FY2016-2020	98,900
16H06323	AKABAYASHI Hideo 90296731	Keio University, Faculty of Economics, Professor	Investigation of the long-term causal effect of economic inequality on educational inequality based on longitudinal survey and experiments of parent-child pairs and international comparison	FY2016-2020	140,400
16H06324	KAMEDA Tatsuya 20214554	The University of Tokyo, Graduate School of Humanities and Sociology, Professor	Understanding of cognitive, neural and ecological bases of human collective behavior	FY2016-2020	140,500
16H06325	SEKIYAMA Kaoru 70216539	Kyoto University, Graduate School of Advanced Integrated Studies in Human Survivability, Professor	Lifestyle and Brain Function: Inquiry in Psychological Science into Successful Aging	FY2016-2020	101,800

(3) Science and Engineering (80 Projects)

○ Interdisciplinary Science and Engineering (15 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
16H06327	SUGAWARA Yasuhiro 40206404	Osaka University, Graduate School of Engineering, Professor	Assembly of nanostructure on insulating surfaces and investigation of gas reaction mechanism using atomic force microscopy	FY2016-2020	139,100
16H06328	FUJII Teruo 30251474	The University of Tokyo, Institute of Industrial Science, Professor	Microfluidic approach to single cell transcriptome analysis and its applications	FY2016-2020	136,600
16H06329	TAKEUCHI Shoji 90343110	The University of Tokyo, Graduate School of Information Science and Technology, Professor	Establishment of Cell Fiber Engineering For Next Generation of 3D Tissue Culture	FY2016-2020	144,900
16H06330	SHIRAISHI Masashi 30397682	Kyoto University, Graduate School of Engineering, Professor	Semiconductor Spin-currentronics	FY2016-2020	134,400
16H06332	MITANI Seiji 20250813	National Institute for Materials Science, Research Center for Magnetic and Spintronic Materials, Deputy Director	Microscopic understanding of interface spin-orbit coupling and development of perpendicular magnetic anisotropy devices	FY2016-2020	145,000
16H06333	SUENAGA Kazutomo 00357253	National Institute of Advanced Industrial Science and Technology, Nano-Materials Research Institute, Prime Senior Researcher	Advanced Single-Atom Spectroscopy	FY2016-2020	130,900
16H06334	BABA Toshihiko 50202271	Yokohama National University, Graduate School of Engineering, Professor	High-performance nanolaser biosensor with an ion-sensitivity	FY2016-2020	130,400
17H06119	MURATA Yasujiro 40314273	Kyoto University, Institute for Chemical Research, Professor	Creation and Development of Nanoscale Laboratory	FY2017-2021	160,100
17H06120	OIKAWA Akira 10321902	Osaka University, The Institute of Scientific and Industrial Research, Professor	Interconversion of Quantum States Between Photon and Electron Spin Using Electrically Controlled Quantum Dots	FY2017-2021	166,100
17H06121	ANDO Toshio 50184320	Kanazawa University, Nano Life Science Institute (WPI-NanoLSI), Professor	Realization of nano-dynamics imaging of protein molecules in extremely soft membrane environments	FY2017-2021	126,400
17H06122	YAMADA Hirofumi 40283626	Kyoto University, Graduate School of Engineering, Professor	Direct visualization of molecular recognition forces by high-resolution atomic force microscopy and spectroscopy	FY2017-2021	141,900
17H06123	TAKEYA Junichi 20371289	The University of Tokyo, Graduate School of Frontier Sciences, Professor	Giant strain effect of charge transport in organic single-crystal semiconductors and flexible mechano-electronics	FY2017-2021	163,300
17H06124	TANAKA Koichiro 90212034	Kyoto University, Graduate School of Science, Professor	New development of nonlinear photoelectronics based on terahertz strong field physics	FY2017-2021	162,300
17H06125	NODA Susumu 10208358	Kyoto University, Graduate School of Engineering, Professor	Spectral control of near-field thermal radiation for highly efficient thermo-photovoltaic power generation	FY2017-2021	154,900
17H06126	MIYAKE Yasuhiro 80209882	High Energy Accelerator Research Organization, Institute of Materials Structure Science, Professor	Transmission Muon Microscope by muon microbeam, realizing 3-D Imaging	FY2017-2021	159,300

○ Mathematical and Physical Sciences (27 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
16H06335	MORIWAKI Atsushi 70191062	Kyoto University, Graduate School of Science, Professor	New development of algebraic geometry viewed from theoretical physics	FY2016-2020	61,700
16H06336	KANEKO Masanobu 70202017	Kyushu University, Faculty of Mathematics, Professor	Multiple Zeta Values and Functions	FY2016-2020	75,400
16H06337	TAKAHASHI Atsushi 50314290	Osaka University, Graduate School of Science, Professor	Fusion of Birational Geometry and Theory of Periods; A New Era for Studies of Mirror Symmetry	FY2016-2020	79,900
16H06338	OSADA Hirofumi 20177207	Kyushu University, Graduate School of Mathematics, Professor	Stochastic Analysis on Infinite Particle Systems	FY2016-2020	90,100
16H06339	KOZONO Hideo 00195728	Waseda University, Faculty of Science and Engineering, Professor	New development of mathematical theory of turbulence by collaboration of the nonlinear analysis and computational fluid dynamics	FY2016-2020	123,600
16H06341	SHIGEYAMA Toshikazu 70211951	The University of Tokyo, Graduate School of Science, Associate Professor	Study of binary neutron star merger by high cadence optical observations	FY2016-2020	98,300
16H06342	YONETOKU Daisuke 40345608	Kanazawa University, College of Science and Engineering, Professor	Identification of Gravitational Wave Sources with X-ray Transient Monitor and Study of Black Hole Formation Mechanism	FY2016-2020	140,800
16H06343	YAMANAKA Taku 20243157	Osaka University, Graduate School of Science, Professor	Search for new physics in rare kaon decays	FY2016-2020	133,800
16H06345	IMADA Masatoshi 70143542	Waseda University, Waseda Research Institute for Science and Technology, Senior Researcher	Materials Design and Exploration of Functions for Strongly Correlated Materials – Challenges to Non-Equilibrium and Non-Periodic Systems	FY2016-2020	85,400
16H06346	KATO Reizo 80169531	RIKEN, Cluster for Pioneering Research, (Condensed Molecular Materials Laboratory), Chief Scientist	Molecular quantum liquids in strongly correlated electron systems	FY2016-2020	142,600
16H06347	MICHIBAYASHI Katsuyoshi 20270978	Nagoya University, Graduate School of Environmental Studies, Professor	Physical properties of uppermost mantle structure and the Mohorovicic seismic discontinuity	FY2016-2020	141,700
16H06348	NAKAMURA Michihiko 70260528	Tohoku University, Graduate School of Science, Professor	Development of near-real-time volcanology based on in-situ observation experiments of shallow magmatic processes	FY2016-2020	136,100
16H06349	YURIMOTO Hisayoshi 80191485	Hokkaido University, Faculty of Science, Professor	Physicochemical analysis of early solar system based on formation kinetics of refractory inclusions of meteorites	FY2016-2020	140,700
17H06127	SAITO Masahiko 80183044	Kobe University, Center for Mathematical and Data Sciences, Professor	Algebraic Geometry and Integrable Systems - Deepening of Theory and New Developments in Mathematics and Mathematical Physics -	FY2017-2021	92,000
17H06128	SAEKI Osamu 30201510	Kyushu University, Institute of Mathematics for Industry, Professor	Innovative Research of Geometric Topology and Singularities of Differentiable Mappings	FY2017-2021	62,800
17H06129	AKIYAMA Masayuki 50425401	Tohoku University, Astronomical Institute, Professor	Establishing processes of galaxy structure revealed by a Subaru tomographic adaptive optics	FY2017-2021	161,300
17H06130	KOHNO Kotaro 80321587	The University of Tokyo, Graduate School of Science, Professor	Study of cosmic star-formation history based on an unbiased survey of millimeter- and submillimeter-wave emission-line galaxies	FY2017-2021	163,700
17H06131	TESHIMA Masahiro 40197778	The University of Tokyo, Institute for Cosmic Ray Research, Professor	Study of the Extreme Universe with the CTA Large Size Telescopes	FY2017-2021	157,100

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
17H06132	AOKI Shigeki 80211689	Kobe University, Graduate School of Human Development and Environment, Professor	Cosmic gamma-ray observation by balloon borne emulsion telescope to study unsolved issues	FY2017-2021	153,900
17H06133	KANDA Nobuyuki 50251484	Osaka City University, Graduate School of Science, Professor	Calibration Standard and High-Precision Data Analysis toward the Observational Era of Gravitational Waves	FY2017-2021	139,600
17H06134	TAJIMA Osamu 80391704	Kyoto University, Graduate School of Science, Associate Professor	Quest for the origin of the Big-Bang and measurements of sum of the neutrino masses by using the world's largest CMB telescope array	FY2017-2021	161,100
17H06135	MIHARA Satoshi 80292837	High Energy Accelerator Research Organization, Institute of Particle and Nuclear Studies, Professor	Study on the charged lepton flavor mixing using the high-intensity pulsed muon beam	FY2017-2021	152,000
17H06136	MAENO Yoshiteru 80181600	Kyoto University, Graduate School of Science, Professor	DC Electric Field and Current: Novel Control Parameters for Strongly Correlated Electron Systems	FY2017-2021	159,000
17H06137	KAWAMURA Hikaru 30153018	Osaka University, Graduate School of Science, Professor	Frustration-induced spin textures	FY2017-2021	165,300
17H06138	HATSUGAI Yasuhiro 80218495	University of Tsukuba, Division of Physics, Professor	Variety and universality of bulk-edge correspondence in topological phases: From solid state physics to transdisciplinary concepts	FY2017-2021	157,800
17H06139	OKAMOTO Hajime 10333783	Kyushu University, Research Institute for Applied Mechanics, Professor	Analysis of cloud microphysics and vertical velocity by synergy use of next generation space-borne active sensors	FY2017-2021	147,900
17H06140	OMURA Yoshiharu 50177002	Kyoto University, Research Institute for Sustainable Humanosphere, Professor	Analyses and Verification of Particle Acceleration and Scattering by Electromagnetic Cyclotron Waves in Space Plasmas	FY2017-2021	133,700

○ Chemistry (10 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
16H06351	SUZUKI Keisuke 90162940	Tokyo Institute of Technology, School of Science, Department of Chemistry, Professor	Studies on Chemical Synthesis of Polyketide-Derived, Biologically Active Complex Natural Products	FY2016-2020	141,800
16H06352	YAMAGO Shigeru 30222368	Kyoto University, Institute for Chemical Research, Professor	New Organic Chemistry and Material Science of Curved π -Conjugated Molecules	FY2016-2020	145,600
16H06354	TERADA Masahiro 50217428	Tohoku University, Graduate School of Science, Professor	Development of Functional Organosuperbase Catalysts Enabling Molecular Recognition	FY2016-2020	143,500
16H06355	SEKI Takahiro 40163084	Nagoya University, Graduate School of Engineering, Professor	New polymer film processing based on the amplified conversion triggered from the free surface	FY2016-2020	138,200
16H06356	SUGIYAMA Hiroshi 50183843	Kyoto University, Graduate School of Science, Professor	Regulation and mechanistic investigation of gene expression by artificial genetic switches	FY2016-2020	133,700
17H06141	ADACHI Shin-ichi 60260220	High Energy Accelerator Research Organization, Institute of Materials Structure Science, Professor	Visualizing ultrafast dynamics of molecular structure with femtosecond X-ray solution scattering	FY2017-2021	154,400
17H06142	YAMAMOTO Hisashi 20026298	Chubu University, Molecular Catalyst Research Center, Professor	New Frontier of Substrate-Controlled Chemical Reaction	FY2017-2021	159,200
17H06143	IWASAWA Nobuharu 40168563	Tokyo Institute of Technology, School of Science, Professor	Development of Carbon Dioxide Fixation Reactions	FY2017-2021	161,300

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
17H06144	Jian Ping Gong 20250417	Hokkaido University, Faculty of Advanced Life Science, Professor	Utilizing the Sacrificial Bonding Principle to Create Soft-Hard Composites with Toughness that Surpasses Metals and Novel Functions	FY2017-2021	157,000
17H06145	KANNO Ryoji 90135426	Tokyo Institute of Technology, Institute of Innovative Research, Professor	Creation of superionic conductors	FY2017-2020	129,500

○ Engineering (28 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
16H06357	MIURA Hideo 90361112	Tohoku University, Graduate School of Engineering, Professor	Establishment of Scientific Basis of the Strength and Reliability of Materials Based on the Order of Atom Arrangement and Its Application to the Explication of the Degradation Process of Various Materials	FY2016-2020	80,800
16H06358	YAMAUCHI Kazuto 10174575	Osaka University, Graduate School of Engineering, Professor	Development of zoom condenser system for X-ray free electron laser by high precision deformable reflective optics	FY2016-2020	141,800
16H06359	MURAYAMA Akihiro 00333906	Hokkaido University, Graduate School of Information Science and Technology, Professor	Photoelectric conversion system of spin-information utilizing semiconductor quantum dots	FY2016-2020	142,500
16H06360	CHO Yasuo 40179966	Tohoku University, Research Institute of Electrical Communication, Professor	Origin elucidation of problems in interface electric charge transportation phenomenon by using scanning nonlinear dielectric microscopies	FY2016-2020	149,700
16H06361	OTSUJI Taiichi 40315172	Tohoku University, Research Institute of Electrical Communication, Professor	Creation of 2D-Atomically-Thin-Layered Hetero- junctions and their Applications to Novel Terahertz Photonic Devices	FY2016-2020	144,600
16H06362	MATSUI Yoshihiko 00173790	Hokkaido University, Faculty of Engineering, Professor	Innovative Water Treatment System Combining Pretreatments and Membrane Separation for Sustainable Supply of Safe High-quality Water	FY2016-2020	100,800
16H06363	AOKI Takayoshi 10202467	Nagoya City University, Graduate School of Design and Architecture, Professor	Development of Preservation/Renovation Techniques for Seismic Performance Improvement and Authenticity of Historical Buildings	FY2016-2020	136,300
16H06364	NAGAO Tadaaki 40267456	National Institute for Materials Science, International Center for Materials Nanoarchitectonics, Group Leader / MANA Principal Investigator	Infrared Energy Harvester by Artificially Structured Heterojunction	FY2016-2020	141,400
16H06365	TSUZAKI Kaneaki 40179990	Kyushu University, Graduate School of Engineering, Professor	Research on supreme fatigue property in steel: importance of microstructurally-small fatigue crack	FY2016-2020	151,000
16H06366	TSUREKAWA Sadahiro 40227484	Kumamoto University, Faculty of Advanced Science and Technology, Professor	Breakthrough toward "second-generation" grain boundary engineering	FY2016-2020	137,900
16H06367	ADSCHIRI Tadasumi 60182995	Tohoku University, WPI - Advanced Institute for Materials Research (WPI-AIMR), Professor	Fabrication of fluidic ceramics with supercritical fluid technology toward dynamic thermal management	FY2016-2020	140,700
16H06368	NODA Suguru 50312997	Waseda University, School of Advanced Science and Engineering, Professor	Creating Soft-Batteries by Simple and Rapid Processes and Innovating Capacity by Reversible Structure Change	FY2016-2020	142,900
16H06369	GOTO Masahiro 10211921	Kyushu University, Graduate School of Engineering, Professor	Creation of Transdermal Drug Delivery Systems Using Solid-in-oil Nano-dispersion Technique	FY2016-2020	128,500

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
16H06370	KOIZUMI Hiroyuki 40361505	The University of Tokyo, Graduate School of Frontier Sciences, Associate Professor	All-round Micro-propulsion System for Multipurpose Utilization of Microsatellite	FY2016-2020	128,800
17H06146	JU Yang 60312609	Nagoya University, Graduate School of Engineering, Professor	Creation and development of high-order nano-space structures through innovative control of stress field	FY2017-2021	161,000
17H06147	KAWAMURA Atsuo 80186139	Yokohama National University, Faculty of Engineering, Professor Emeritus	Realization of Sustainable Green Society Through 99.9% Class Efficiency Electric Power Conversion	FY2017-2021	138,000
17H06148	TAKAGI Shinichi 30372402	The University of Tokyo, School of Engineering, Professor	Precise structure control of 3-dimensional integration CMOS using high mobility materials through layer transfer	FY2017-2021	158,900
17H06149	SOMEYA Takao 90292755	The University of Tokyo, School of Engineering, Professor	Evaluation of Drug Response by Elastic Multipoint Electrode Array Using Cardiomyocyte Sheet	FY2017-2021	157,100
17H06150	OSUKA Koichi 50191937	Osaka University, Graduate School of Engineering, Professor	Source of various behaviors of living things that understands from zombification of insects	FY2017-2021	136,800
17H06151	IKAGA Toshiharu 30302631	Keio University, Faculty of Science and Technology, Professor	Field survey on Impact of living environments on brain, cardiovascular, respiratory and locomotive system, and co-benefit evaluation of disease and long-term care prevention	FY2017-2021	159,700
17H06152	HONO Kazuhiro 60229151	National Institute for Materials Science, Vice President and Director of Research Center for Magnetic and Spintronic Materials	Spin-dependent conduction mechanism of half-metallic Heusler alloys and applications to practical devices	FY2017-2021	162,400
17H06153	HOSONO Hideo 30157028	Tokyo Institute of Technology, Research Center for Element Strategy, Institute Professor and Director of Materials	New evolution of materials concept and application of electrides	FY2017-2021	134,600
17H06154	MAKINO Akihiro 30315642	Tohoku University, New Industry Creation Hatchery Center, Professor	Research and development on artificial production of next generation of Rare-Earth Free Magnets with L1 ₀ phase similar to Cosmic magnet.	FY2017-2021	156,600
17H06155	YASUDA Hideyuki 60239762	Kyoto University, Graduate School of Science and Engineering, Professor	Modeling of solidification dynamics supported by 3D time-resolved in-situ observations	FY2017-2021	130,200
17H06156	WADA Yuji 40182985	Tokyo Institute of Technology, School of Materials and Chemical Technology, Professor	The Theory of Microwave-induced Nonequilibrium State and its Application to the Manipulation of Solid/Interfacial Chemical Reactions	FY2017-2021	160,200
17H06157	OMASA Takeshi 00252586	Osaka University, Graduate School of Engineering, Professor	Integrated platform for mammalian cell-based cell and bioprocess engineering	FY2017-2021	118,400
17H06158	TAKEYAMA Haruko 60262234	Waseda University, Faculty of Science and Engineering, Professor	Development of platform for ultra high-throughput screening of novel bioactive compound producers	FY2017-2021	157,700
17H06159	TAKAHASHI Hiroyuki 70216753	The University of Tokyo, Institute of Engineering Innovation, Professor	Study on Multi-photon gamma-ray coincidence tomography	FY2017-2021	158,300

(4) Biological Sciences (40 Projects)

○ Biological Sciences (6 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
16H06371	YAMAMOTO Daisuke 50318812	National Institute of Information and Communications Technology, Advanced ICT Research Institute, Executive Researcher	How sexual experience modulates innate behavior: a neurogenetic study in Drosophila	FY2016-2020	140,900
16H06373	HATAKEYAMA Masanori 40189551	The University of Tokyo, Graduate School of Medicine, Professor	Mechanism and regulation of "Hit-and-Run" carcinogenesis by Helicobacter pylori CagA	FY2016-2020	141,600
16H06374	KIKUCHI Akira 10204827	Osaka University, Graduate School of Medicine, Professor	Investigation of the novel mechanisms underlying tumorigenesis due to aberrant Wnt signal networks	FY2016-2020	136,300
17H06160	SAKANO Hitoshi 90262154	University of Fukui, Faculty of Medical Sciences, Adjunct Professor	Decision Making in the Mouse Olfactory System	FY2017-2021	158,800
17H06161	MIYASHITA Yasushi 40114673	RIKEN, Center for Brain Science, Laboratory for Cognition Circuit Dynamics, Team Leader	Elucidation of cortical neural circuits for meta-memory: Optogenetic manipulation of retrospection	FY2017-2021	161,000
17H06162	NISHIKAWA Hiroyoshi 10444431	Nagoya University, Graduate School of Medicine, Professor	Association of immune responses with racial differences of cancer development	FY2017-2021	161,700

○ Biology (9 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
16H06375	OHSUMI Yoshinori 30114416	Tokyo Institute of Technology, Institute of Innovative Research, Honorary Professor	Molecular mechanism and physiological understanding of Autophagy	FY2016-2020	143,700
16H06376	AGATA Kiyokazu 70167831	Gakushuin University, Faculty of Science, Department of Life Science, Researcher	Evoking limb regeneration from non-regenerative animals	FY2016-2020	136,800
16H06377	FUKUDA Hiroo 10165293	The University of Tokyo, Graduate School of Science, Professor	Molecular basis of pluripotency of vascular stem cells	FY2016-2020	141,800
16H06378	HASEBE Mitsuyasu 40237996	National Institute of Natural Sciences, National Institute for Basic Biology, Division of Evolutionary Biology, Professor	Spatiotemporal regulation of cell division axis as a grand plan of plant developmental evolution	FY2016-2020	150,100
17H06164	ARAI Hiroyuki 40167987	The University of Tokyo, Graduate School of Medicine, Visiting Researcher	The roles of membrane lipids for intracellular signaling platform	FY2017-2021	156,700
17H06165	AKIYAMA Shuji 50391842	National Institute of Natural Sciences, Institute for Molecular Science, Research Center of Integrative Molecular Systems, Professor	An Integrated Multi-scale Approach for Studying Cyanobacterial Circadian Clock System	FY2017-2021	157,400
17H06166	SAGA Yumiko 50221271	Research Organization of Information and Systems, National Institute of Genetics, Genetic Strains Research Center, Professor	Mechanism of sex differentiation of germ cells	FY2017-2021	156,200

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
17H06167	FUKAGAWA Tatsuo 60321600	Osaka University, Graduate School of Frontier Biosciences, Professor	Molecular mechanisms for centromere formation	FY2017-2021	157,100
17H07424	KOHCHI Takayuki 40202056	Kyoto University, Graduate School of Biostudies, Professor	Sex differentiation in land plant: mechanism of genetic robustness and plasticity	FY2017-2021	141,500

○ Agricultural Sciences (10 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
16H06379	MAKINO Amane 70181617	Tohoku University, Graduate School of Agricultural Sciences, Professor	Production of Super High-yielding Rice Plants for Environmental Conservation as the Green Evolution II	FY2016-2020	108,300
16H06380	TAKAYAMA Seiji 70273836	The University of Tokyo, Graduate School of Agricultural and Life Sciences, Professor	Molecular Mechanism and Evolution of Self-Incompatibility in Plants	FY2016-2020	140,800
16H06381	SAKO Yoshihiko 60153970	Kyoto University, Graduate School of Agriculture, Professor Emeritus	Comprehensive, Spatiotemporal Study and Applied Research of Carboxydrotrophs	FY2016-2020	133,100
16H06382	ADACHI Yasuhisa 70192466	University of Tsukuba, Faculty of Life and Environmental Science, Professor	Environmental Interface Engineering Based on Dynamic Analysis of Colloidal Focclulation	FY2016-2020	102,000
16H06383	MATSUDA Hiroshi 80145820	Tokyo University of Agriculture and Technology, Institute of Agriculture, Professor	Redefinition of intractable inflammatory diseases based on mast cell activation syndrome	FY2016-2020	144,900
17H06168	NISHIYAMA Makoto 00208240	The University of Tokyo, Biotechnology Research Center, Professor	Studies on mechanisms of biosynthesis of biomolecules via amino-group carrier protein and expansion of structural diversity of secondary metabolites	FY2017-2021	160,700
17H06169	ASANO Yasuhisa 00222589	Toyama Prefectural University, Faculty of Engineering, Professor	Development of soluble expression technology and utilization of enzymes from plants and animals	FY2017-2021	157,700
17H06170	UCHIDA Koji 40203533	The University of Tokyo, Graduate School of Agricultural and Life Sciences, Professor	Life science basis of short-lived reactive species originated from foods	FY2017-2021	157,100
17H06171	FUNAKAWA Shinya 20244577	Kyoto University, Graduate School of Global Environmental Studies, Professor	Establishment of "Minimum-loss" agriculture	FY2017-2021	148,500
17H06172	SHIRASU Ken 20425630	RIKEN, Center for Sustainable Resource Science, Group Director	Molecular elucidation of plant-pathogen interactions	FY2017-2021	156,100

○ Medicine, Dentistry, and Pharmacy (15 Projects)

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
16H06384	TAKEMOTO Yoshiji 20227060	Kyoto University, Graduate School of Pharmaceutical Sciences, Professor	Innovative catalysts for the synthesis of large- and medium-sized molecules bearing glycopeptides	FY2016-2020	123,300
16H06385	MIURA Masayuki 50202338	The University of Tokyo, Graduate School of Pharmaceutical Sciences, Professor	Mechanisms and physiological functions of intercellular communication by cell death	FY2016-2020	140,900

Research Project Number	Principal Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Total (Thousands of Yen)
16H06386	KUSUMI Akihiro 50169992	Okinawa Institute of Science and Technology Graduate University, Membrane Cooperativity Unit, Professor	Signal transduction by transient molecular complexes and its regulation by actin membrane skeleton: single-molecule tracking study	FY2016-2020	145,500
16H06387	SHIBUYA Akira 80216027	University of Tsukuba, Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance, Professor	Regulation of innate immune responses by inhibitory immunoreceptors	FY2016-2020	142,600
16H06388	MIYAKE Kensuke 60229812	The University of Tokyo, Institute of Medical Science, Professor	The study on the molecular and cellular bases underlying the crosstalks between innate immunity and cell metabolism in lysosomes	FY2016-2020	140,900
16H06390	SAKAI Juro 80323020	Tohoku University, Graduate School of Medicine, Professor	Elucidation of lifestyle-related diseases development due to environmental factors and epigenetic memory	FY2016-2020	140,700
16H06391	AKASHI Koichi 80380385	Kyushu University, Graduate School of Medicine, Professor	Regulation of self-renewal vs. quiescence status in human myeloid leukemia stem cells	FY2016-2020	118,500
16H06393	NISHIMURA Riko 60294112	Osaka University, Graduate School of Dentistry, Professor	Development of innovative medical technology based on integrated understanding of both protection and destruction of articular cartilage homeostasis	FY2016-2020	139,900
17H06173	UCHIYAMA Masanobu 00271916	The University of Tokyo, Graduate School of Pharmaceutical Sciences, Professor	New Molecular Technologies to Open Up Multiple Applications of Light in Life Science and Materials Science	FY2017-2021	163,300
17H06174	IWAI Kazuhiro 60252459	Kyoto University, Graduate School of Medicine, Professor	Extensive analyses of the LUBAC ubiquitin ligase	FY2017-2021	157,100
17H06175	YOSHIMURA Akihiko 90182815	Keio University, School of Medicine, Professor	Immune systems involved in the resolution of inflammation and tissue repair	FY2017-2021	158,300
17H06176	SATO Toshiro 70365245	Keio University, School of Medicine, Professor	Gaining Integrative Understanding of Gastrointestinal Disease Phenotypes through Establishment of an Organoid Library	FY2017-2021	159,000
17H06177	NISHINAKAMURA Ryuichi 70291309	Kumamoto University, Institute of Molecular Embryology and Genetics, Professor	Kidney reconstitution and disease modeling based on nephron induction methods in vitro	FY2017-2021	157,100
17H06178	YAMASHITA Toshihide 10301269	Osaka University, Graduate School of Medicine, Professor	Generation of neural network repair medicine	FY2017-2021	158,600
17H06179	IMAI Yumiko 50231163	National Institute of Biomedical Innovation, Health and Nutrition, Laboratory for Regulation of Intractable Infectious Diseases, Project Leader	Identification of higher-order-epigenetic modification machineries and development of potential novel therapeutics in severe virus infection	FY2017-2021	150,900