

## 13th (FY2022) JSPS Ikushi Prize recipients

NAME	AFFILIATION	RESEARCH TITLE
ABE Yoshiaki	Graduate School of Comprehensive Human Sciences, University of Tsukuba	Construction of single-cell atlas of non-hematopoietic cells in human lymph nodes and lymphoma for dissecting stromal remodeling
OHSAKI Haruna	United Graduate School of Agricultural Sciences, Iwate University	Mechanisms of plant-plant interactions and their effects on herbivores
OTA Elena	Graduate School of Letters, Waseda University	Eschatology in Middle Byzantine Art: Considering the Provisional and Last Judgement
KITAZAWA Munehiro	Graduate School of Agriculture, Hokkaido University	Broad-scale and long-term assessment of bird diversity in agricultural landscapes: Focusing on farmland expansion and abandonment
KUROYANAGI Chiaki	Graduate School of Arts and Sciences, The University of Tokyo	The Russian Ecclesiastical Mission in Beijing : A History of the 18–19th Century Sino-Russian Relations from the Perspective of Contacts between East and West
KOIKE Taichi	Graduate School of Science, Tohoku University	Development of Unexplored Molecular Systems Based on Silicon
KOKUBO Masatoshi	Graduate School of Law, Keio University	Cognitive liberty: Constitutional law and Neuroscience
SAKAMOTO Takahiro	School of Advanced Sciences, The Graduate University for Advanced Studies (SOKENDAI)	Theoretical population genetics of natural selection
TAKAKUWA Masahito	Graduate School of Creative Science and Engineering, Waseda University	Developing the flexible conductive bonding of gold electrode method for ultra-flexible electronics integration. I have tried surface activation bonding by using water vapor plasma instead of conductive adhesive.
TANIGUCHI Daisuke	Graduate School of Science, The University of Tokyo	Research on red supergiants: time variability, evolutionary track, and application to studies on the Milky Way
TANOMURA Ryota	Graduate School of Engineering, The University of Tokyo	Robust and Scalable Optical communication and computation system based on multi-plane light conversion
TOMOFUJI Yoshihiko	Graduate School of Medicine, Osaka University	Development of novel methods for metagenome shotgun sequencing analysis and elucidation of the gut microbial features associated with diseases, diets, and populations.
NAKAZATO Issei	Graduate School of Agricultural and Life Sciences, The University of Tokyo	Targeted base editing in the plant organelle genome
NANASHIMA Mikito	School of Computing, Tokyo Institute of Technology	Computational Learning and Its Relationships to Computational Complexity and Cryptography
HOSHI Ikuo	Graduate School of Science and Engineering, Chiba University	Study of new imaging system for Internet of Things
MUGURUMA Kaede	Graduate School of Letters, Osaka University	View of Human Body in Ancient China: On the Basis of Reading Bamboo and Silk Manuscripts
YASUMIZU Yoshiaki	Graduate School of Medicine, Osaka University	Comprehensive characterization of autoimmune diseases centered on regulatory T cells and drug discovery
YAMAGUCHI Sonomi	Graduate School of Science, The University of Tokyo	Structural and functional analyses of RNA silencing factors

Affiliations current as of 1 May 2022

## 12th (FY2021) JSPS Ikushi Prize recipients

NAME	AFFILIATION	RESEARCH TITLE
OHKUBO Yuri	Graduate School of Science, Nagoya University	Signaling pathways regulating systemic nitrogen uptake in plants
KANAMORI Mariko	Graduate School of Medicine, The University of Tokyo	Identifying the social determinants of suicide in rural areas and developing a community empowerment model for suicide prevention
KANEKO Naotsugu	Graduate School of Arts and Sciences, The University of Tokyo	Elucidation of neural activity during action observation and motor imagery of walking for the development of new gait rehabilitation
KAWABATA Kohei	Graduate School of Science, The University of Tokyo	Symmetry and Topology of Open Systems
KOMATSU Mizuka	Graduate School of System Informatics, Kobe University	Parameter Variety: Differential Algebraic Approach to Unidentifiable Models and Its Applications
SATO Yoshiki	Graduate School of Engineering, Tohoku University	Single crystal growth and novel physical properties of intermetallic compounds with characteristic crystal structures
ZHANG Youyuan	Graduate School of Science, The University of Tokyo	Theoretical studies on photo-excitation processes of molecular ions generated in intense laser fields
SUGANUMA Kiichi	Graduate School of Music, Tokyo University of the Arts	A Study of Girolamo dalla Casa's Diminution Technique: Counterpoint, Notation, and its Performance
THAM Yukari Jessica	Graduate School of Humanities and Sociology at the University of Tokyo	Achieving fairness in the volunteer's dilemma
TATEUCHI Kai	Graduate School of Arts and Letters, Tohoku University	The Archaeological Study of Interregional Interaction and Cultural Changes in the Period of Transition from the Ancient Japan to the Medieval Japan
NAGAE Mayuko	Graduate School of Bioagricultural Sciences, Nagoya University	Elucidation of brain mechanisms regulating follicular development in mammals
NAGAKAWA Haruki	Graduate School of Engineering, Tokyo University of Science	Efficient hydrogen production using anti photo-corrosive composite photocatalyst under sunlight
NAKANISHI Tomoko	Graduate School of Medicine, Kyoto University	Genetic determinants of respiratory diseases and their clinical implications
NOJIRI Taro	Graduate School of Agricultural and Life Sciences, The University of Tokyo	Uncovering evolutionary origins of echolocation in bats with special reference to organogenesis of ultrasound-related apparatus
FUJII Yasuyuki	Graduate School of Engineering and Science, Shibaura Institute of Technology	Relationship between food sensation and food function: elucidation of the cognitive improvement by astringent
FUJITA Kyohhei	Graduate School of Medicine, The University of Tokyo	Identification and utilization of $\alpha$ -mannosidase 2C1 as a biomarker enzyme for rapid and clinical fluorescence imaging of breast tumors
MORI Shunsuke	Graduate School of Engineering, Tohoku University	Polymorphic transformation in MnTe films and its application for non-volatile memory
YASUDA Masaru	Graduate School of Humanities and Human Sciences, Hokkaido University	Cicero's Political Philosophy and Its Epistemological Foundation

Affiliations current as of 1 May 2021

## 11th (FY2020) JSPS Ikushi Prize recipients

NAME	AFFILIATION	RESEARCH TITLE
IZAWA Shuntaro	Graduate School of Medicine, Nagoya University	Hypothalamic MCH neurons contribute to forgetting during REM sleep
ISHIKAWA Mitsuhiro	Graduate School of Letters, The University of Kyoto	Examining the physiological mechanism of gaze following in infants
OKA Kouki	Faculty of Science and Engineering, Waseda University	Development of Redox Polymers for Hydrogen Storage and New Functions
OGISO Tomoko	Graduate School of Humanities and Social Sciences, University of Tsukuba	Inference Generation Processes During Japanese EFL Reading: Text Cohesion and Learners' Individual Factors
OKUDE Genta	Graduate School of Science, The University of Tokyo	Molecular mechanisms of metamorphosis and coloration in dragonflies
KADOWAKI Mariko	Graduate School of Engineering, Tohoku University	Development of a Micro/Nano-Scale Electrochemical System and High Corrosion-Resistant Steels
KURODA Kiri	Graduate School of Humanities and Sociology, The University of Tokyo	Cognitive basis underlying social-information processing under speed-accuracy tradeoff
SAITO Hayate	Graduate School of Science, Kyoto University	Development of Innovative Skeletal Transformations of Heteroaromatic Cores
SAITO Yuki	Graduate School of Medicine, Keio University	Landscape and function of multiple mutations within individual oncogenes
SASATANI Takuya	Graduate School of Information Science and Technology, The University of Tokyo	Ubiquitous wireless power transfer for covering living spaces
SHIMADA Hideki	Graduate School of Agriculture, Kyoto University	Experimental and Applied Microeconomic Approaches to Policy Design with Social Interactions
TAKAHASHI Tohru	Graduate School of Comprehensive Human Sciences, University of Tsukuba	Identification of a neuronal circuit that induces hibernation-like hypometabolic state in mice
TABATA Eri	Graduate School of Applied Chemistry and Chemical Engineering, Kogakuin University	Functional properties and feeding behaviors of acidic chitinase (Chia) in mammals and poultry
TSUJI Daichi	Graduate School of Humanities, Kyushu University	The Formation of "Homosexuality" Concept in Medieval Islamic Society
FUJII Shun	Graduate School of Science and Technology, Keio University	Dispersion engineering of high-Q optical microresonators for frequency comb generation
MURATA Hiromasa	Graduate School of Pure and Applied Sciences, University of Tsukuba	Layer exchange synthesis of multilayer graphene for thin film rechargeable battery
MORIKAWA Okuto	Graduate School of Science, Kyushu University	Non-perturbative approaches to quantum field theory and superstring theory
YAMAMORI Luna	Graduated School of Human and Environmental Studies, Kyoto University	Mechanism of diversification accelerated by symbiosis on rocky shore

Affiliations current as of 1 May 2020

## 10th (FY2019) JSPS Ikushi Prize recipients

NAME	AFFILIATION	RESEARCH TITLE
AKICHIKA Shinichiro	Graduate School of Engineering, The University of Tokyo	Identification and functional analysis of the cap-specific m6A methyltransferase
ITAKURA Kenta	Graduate School of Agricultural and Life Sciences, The University of Tokyo	Three-dimensional analysis of plant functions using image processing and deep learning
OTOYAMA Misae	Graduate School of Engineering, Osaka Prefecture University	Optimization of Composite Electrodes in All-Solid-State Batteries Based on Reaction Analyses
MARIKO Kimura	Graduate School of Science, Kyoto University	Studies in Accretion Physics through Multi-Wavelength Observations, Numerical Simulations, and Modern Statistics ~ How do Black Holes Absorb Surrounding Matters ? ~
GONG Zongping	Graduate School of Science, The University of Tokyo	Topological phenomena in nonequilibrium quantum many-body systems
SHIMIZU Nobuhiro	Graduate School of Media and Governance, Keio University	Local Techniques and Knowledge on Building and City, and Their Transformation since the 19th Century, in Mekelle and its Surrounds, Tigray Region, Ethiopia
TAKEUCHI Aya	Graduate School of Bioresource Sciences, Nihon University	Spawning ecology research on the Japanese eel using environmental DNA analysis
ZHANG Jingxin	Graduate School of Intercultural Studies, Kobe University	Elucidation of usage of onomatopoeia in modern Japanese and development of onomatopoeia's teaching system for Chinese learners of Japanese: Possibility of adopting corpus linguistics into education
TSUKAMOTO Takahiro	Graduate School of Economics, Nagoya University	Development of spatial autoregressive stochastic frontier models and research on industrial agglomeration and productivity spillovers
NAKAMURA Yuka	Graduate School of Asian and African Area Studies, Kyoto University	A Study of Modern Medicine and the Experience of Illness in Contemporary Nepal: With a Focus on Case of Diabetes Patients
HIRAOKA Daiki	Graduate School of Education, Kyoto University	Investigation of the psychological, physiological and genetical mechanisms of the child maltreatment
FUJIMURA Soichiro	Graduate School of Mechanical Engineering, Tokyo University of Science	Development of an Effective Endovascular Surgical Assist System for Cerebral Aneurysms by Numerical Simulation Techniques
MATSUBARA Shogo	Graduate School of Life Sciences, Ritsumeikan University	Elucidation of growth process in photosynthetically light-harvesting antenna "chlorosome" with dye assemblies
MIURA Fuminari	Graduate School of Engineering, The University of Tokyo	Statistical inference with epidemiological and microbial datasets for spread of infectious diseases via hidden cases
MICHINE Yurina	Graduate School of Informatics and Engineering, University of Electro-Communications	Research on diffraction optics of UV laser excited ozone mixed gas
YAMASAKI (OKAHATA) Misaki	Graduate School of Natural Science, Konan University	Neural circuit for cold acclimation dependent on oxygen and natural variation of cold acclimation in <i>C. elegans</i>
YAMANE Yu	Graduate School of Advanced Sciences of Matter, Hiroshima University	Single-site Non-Fermi Liquid Behaviors in Diluted Pr Systems
YOSHIDA Keitaro	Graduate School of Medicine, Keio University	Optical-observation and -manipulation reveal neural mechanisms of motivated behavior

## 9th (FY2018) JSPS *Ikushi* Prize recipients

NAME	AFFILIATION	RESEARCH TITLE
ASHIDA Yuto	School of Science, The University of Tokyo	Criticality, Dynamics and Entanglement in Quantum Systems Coupled to Environment
UEYOSHI Kodai	Graduate School of Information Science and Technology, Hokkaido University	Versatile Computer Architectures Accelerating Deep Learning Systems.
OSAWA Yukiko	Graduate School of Science and Technology, Keio University	Integrated Design of Interface and Control Design for Realization of Remote Interactions
KAWAMURA Yuta	Graduate School of Education, Kyoto University	The promotion and prevention factor of altruistic behavior: the effect of reputational concern
KIMATA Yusuke	Graduate School of Science, Nagoya University	Analysis of the plant apical-basal axis formation by the asymmetric division of the zygote
SHIRAKATA Hikari	Graduate School of Science, Hokkaido University	Theoretical studies about the co-evolution between galaxies and supermassive black holes
TSUBOYAMA Kotaro	Graduate School of Frontier Sciences, The University of Tokyo	Single-molecule analysis of conformational changes in Argonaute
TOBITA Takashige	Graduate School of Medicine, Tokyo Women's Medical University	Genetic analysis and development of novel therapeutic methods for dilated cardiomyopathy
NAKAGAWA Tomomi	Graduate School of Humanities and Social Sciences, Okayama University	The cultural background of violence from the prehistory to the state formation period in Japan
NAKAJIMA Yukari	Graduate School of Medical Sciences, Kanazawa University	The basic research in order to observe lymphatic vessels and elucidate the process of inflammation and fibrosis in the chronic Lymphedema.
HAGIO Hanako	Graduate School of Bioagricultural Sciences, Nagoya University	Studies on the central visual system of fish - How do fish look at the world? -
MATSUI Hiroshi	Graduate School of Human Relations, Keio University	Comparative analysis on sensory-motor and morphological basis of tool-use in crows.
MURAOKA Koki	School of Engineering, The University of Tokyo	Computer-aided synthesis of zeolites
MURAKAMI Tatsuya	Graduate School of Medicine, The University of Tokyo	Single-cell-resolution brain atlas for whole-brain analysis of cells
MURATA Kayo	Graduate School of Music, Tokyo University of the Arts	The Development of Johann Sebastian Bach's Contrapuntal Technique up to the Cöthen Period
MURATA Yuki	Graduate School of Humanities and Sociology, The University of Tokyo	The Emergence of the "One-nation-one-state" System in East-Central Europe, 1917-1922
YASUDA Kenji	School of Engineering, The University of Tokyo	Development of Spin Physics in Magnetic Topological Insulators
WATANABE Kanako	Graduate School of Engineering, Tohoku University	Control over the spatial distribution of particles via applying external stimuli

## 8th (FY2017) JSPS *Ikushi* Prize recipients

NAME	AFFILIATION	RESEARCH TITLE
OKAZAKI Yusuke	Graduate School of Science, Kyoto University	Diversity and Ecology of bacterioplankton inhabiting deep freshwater lakes
ONODA Atsuto	Graduate School of Pharmaceutical Sciences, Tokyo University of Science	Mechanisms and effects of maternal exposure to ultrafine particle on the central nervous system of offspring
KARIYAZONO Shiho	School of Advanced Sciences, The Graduate University for Advanced Studies	The genetic basis and the biological role of fluorescent proteins in <i>Acropora</i> species
KUMAGAI Kota	Graduate School of Engineering, Utsunomiya University	Volumetric display with holographic laser drawing
KUROKI Nahoko	Graduate School of Humanities and Sciences, Ochanomizu University	Theoretical design of functional liquid mixtures by means of physicochemical simulations and machine learning
SAITO Yu	Graduate School of Engineering, The University of Tokyo	Quantum Transport in Highly Crystalline Two-dimensional Superconductors
NAKAMURO Takayuki	Graduate School of Engineering, Kyoto University	Development of Novel Synthetic Transformation Reactions with N <sub>2</sub> Extrusion
NAMBA Miki	Graduate School of Social Sciences, Hitotsubashi University	Anthropological Study on Urbanization and Infrastructural Development in Vientiane Capital, Lao P.D.R.
HASHIMOTO Kazuma	School of Engineering, The University of Tokyo	Obtaining Mathematical Representations for Natural Language Semantics Using Deep Learning
HATAZAWA Yukino	Graduate School of Life and Environmental Sciences, Kyoto University	Elucidation of molecular mechanism of skeletal muscle metabolism, focusing on exercise and atrophy
MAEDA Shunta	Graduate School of Human Sciences, Waseda University	Influence of cognitive information processing on cortisol recovery in social anxiety
MATSUDA Ayaka	Graduate School of Fisheries Sciences, Hokkaido University	Diet study about small toothed whales around Japan
MIURA Tatsuya	Graduate School of Mathematical Sciences, The University of Tokyo	Analysis on effects of bending, adhesion and tension energy to shapes
MIZUMOTO Nobuaki	Graduate School of Agriculture, Kyoto University	Studies on the pattern formation algorithm of searching and construction behaviors
Michelle Sue Jann Lee	Graduate School of Frontier Biosciences, Osaka University	Malarial parasite products cause chronic inflammatory bone loss
MURATE Kosuke	Graduate School of Engineering, Nagoya University	Development of injection-seeded Terahertz-wave Parametric Generator and Applications
MENG Xianwei	Graduate School of Human-Environment Studies, Kyushu University	Early Development of Communication Based on the Understanding of the Environmental Information and the Epistemic States of Others: An Empirical Study on Human Infants
WATANABE Saori	Graduate School of Sociology, Meiji Gakuin University	Historical Analysis of Rare Diseases Policy in Japan: Public expenditure medical care by diseases-category-based model

## 7th (FY2016) JSPS *Ikushi* Prize recipients

NAME	AFFILIATION	RESEARCH TITLE
ARAZOE Hiroki	Graduate School of Engineering, The University of Tokyo	Novel applications of highly oriented graphitic carbon nitride
ITO Ami	Graduate School of Science, Nagoya University	Mechanism of mitotic spindle pole focusing
OGAWA (MIT SUNOBU) Yukiko	Graduate School of Engineering, Tohoku University	Development of super-magnesium alloy through novel microstructure control
KISHI Keiichi	Graduate School of Economics, Osaka University	Dynamic analysis of wage inequality and patent policy in R&D-based growth models
KITAMURA Daichi	School of Multidisciplinary Sciences, The Graduate University for Advanced Studies	Multichannel blind music source separation based on nonnegative matrix factor source model
KINOSHITA Yoshiaki	Graduate School of Science, Gakushuin University	Construction of bases for observing the swimming motility in archaea
KUBOTA Shimpei	Graduate School of Medicine, The University of Tokyo	Whole-body/organ pathology of diseases caused by minority of cells with proliferative and stochastic processes
GUNJI Megu	Graduate School of Agricultural and Life Sciences, The University of Tokyo	Evolution of musculoskeletal structure of neck in artiodactyls associated with neck elongation and its genetic background
KOYAMA Yuki	Graduate School of Information Science and Technology, The University of Tokyo	Development of Novel Frameworks for Computational Design Facilitation
SAVAGE Patrick E.	Graduate School of Music, Tokyo University of the Arts	Measuring the cultural evolution of music : With case studies of British-American and Japanese folk, art, and popular music
SHIHOYA Wataru	Graduate School of Pharmaceutical Sciences, Nagoya University	Crystal structures of the human endothelin type B receptor in complex with endogenous agonist endothelin-1 and clinical drugs
FUKADA Fumi	Graduate School of Life and Environmental Science, Kyoto Prefectural University	Studies on the molecular mechanisms of cell cycle and plant infection in the plant pathogenic fungi
HORI Satoshi	Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology	Materials developments of superionic conductors for next-generation energy-storage devices
MASUDA Kento	Graduate School of Science, The University of Tokyo	Exploring the Architecture of Transiting Exoplanetary Systems with High-Precision Photometry
MURAI Yuki	Graduate School of Arts and Sciences, The University of Tokyo	Neural mechanisms of perceptual stability in space and time
MOCHIDA Keisuke	Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology	Molecular basis and physiological roles of autophagic degradation of the nucleus and the endoplasmic reticulum
MORITA Madoka	Graduate School of Humanities and Sociology, The University of Tokyo	Between "Community Peace" and Public Order: Neighborhoods and Urban Administration in Istanbul (1730-54)

## 6th (FY2015) JSPS *Ikushi* Prize recipients

NAME	AFFILIATION	RESEARCH TITLE
ARAI Takayuki	Graduate School of Arts and Letters, Meiji University	Study of the Management and Operation in Chinese Imperial Kilns after the Song Dynasty
ITO Minako	Graduate School of Medicine, Keio University	Identify the Regulator of Inflammasomes and Clarify Its Contribution to Post-ischemic Inflammation
INOUE Takuya	Graduate School of Engineering, Kyoto University	High-efficient High-speed Thermal Emitters via Control of both Electronic and Photonic States
UESAKI Maiko	Graduate School of Letters, Kyoto University	Neuronal Mechanisms Underlying Visually-Induced Sensation of Self-Motion-Investigation into Connectivity amongst Cortical Sensory Regions
WU Yang	Graduate School of Humanities and Social Sciences, Okayama University	A Descriptive Study of the Verbs Expressing State, Existence, Property and Relation
SATO Yasuhiro	Graduate School of Science, Kyoto University	Associational Anti-herbivore Defense in the Trichome Dimorphism of <i>Arabidopsis halleri</i> subsp. <i>gemmifera</i>
SHOJIKI Kanako	Graduate School of Engineering, Tohoku University	Metalorganic Vapor Phase Epitaxial Growth of -c- plane InGaN Alloys and its Optical Device Applications
SUZUKI Junji	Graduate School of Medicine, The University of Tokyo	Imaging of Intraorganellar Ca <sup>2+</sup> at Subcellular Resolution Using CEPIA
TAKEKAWA Norihiro	Graduate School of Science, Nagoya University	Studies on the Stator-rotor Interaction and the Rotational Energy Conversion of the Bacterial Flagellar Motor
TANAKA Koji	School of Engineering, The University of Tokyo	Mechanism of Self-assembly of a Transmembrane Protein Triggered by Specific Membrane Composition and Dynamics
NEGISHI Yota	Graduate School of Law, Waseda University	The Control of Conventionality of Domestic Law:Constitutionalization of International Adjudication and Internationalization of Constitutional Adjudication in Implementation of Regional Human Rights Treaty
HIRAYAMA Ryuji	Graduate School of Engineering, Chiba University	Optically Controlled Volumetric Display Achieving Ultra-High-Definition
FUJIWARA Kazumasa	Graduate School of Advanced Science and Engineering, Waseda University	Mathematical Foundations of Semirelativistic Nonlinear Fields
MUTO Kei	Graduate School of Science, Nagoya University	Development of New Coupling Reactions by C-H, C-O, and C-C Bond Cleavage
YAMAMOTO Eiji	Graduate School of Science and Technology, Keio University	Investigation of Anomalous Dynamics of Water Molecules on Cell Membranes by Using Molecular Dynamics Simulations
YOKOSHI Moe	Graduate School of Medicine, Osaka University	Elucidation of the Physiological Role of Ataxin-2, a Neurodegeneration-associated Protein in RNA Metabolism
RYAN Joseph	Graduate School of Letters, Osaka University	Archaeological Research on the Production and Distribution of Iron Weapons in the State Formation Process of Ancient Japan
WATANABE Miho	Graduate School of Environmental Science, Hokkaido University	Phylogenetic and Functional Analysis of Novel Bacteria Isolated from Aquatic Environments



## 5th (FY2014) JSPS *Ikushi* Prize recipients

NAME	AFFILIATION	RESEARCH TITLE
AKIBA Takuya	Graduate School of Information Science and Technology, The University of Tokyo	Unified Algorithmic Approach for Real-world Large-scale Networks
UEDA Yasushi	Graduate School of Music, Tokyo University of the Arts	The Piano Education at the Conservatoire National de Musique de Paris from 1850s to 80s: Processes and Factors of Canonization of Repertory
UNO Shinnosuke	Graduate School of Medicine, The University of Tokyo	Development of Fluorescent Probes Based on Intramolecular Spirocyclization for Live-cell Super-resolution Imaging
OBATA Yuuki	Graduate School of Medical and Pharmaceutical Sciences, Chiba University	The Regulatory Mechanism of Gut Immune Homeostasis
KUBO Takahiro	Graduate School of Agriculture, Kyoto University	Social Scenario Analysis toward Coexistence between Human and Wildlife
KUMAGAI Shogo	Graduate School of Environmental Studies, Tohoku University	Feedstock Recycling of Hard-to-Recycle Polymeric Materials
KUMAZAKI Kaoru	Graduate School of Science, The University of Tokyo	Structural Basis for Sec-independent Membrane Protein Insertion by YidC
SATO Honami	Graduate School of Sciences, Kyushu University	Large Impact Event and Its Environmental Effects in the Triassic
SUGIURA Sho	Graduate School of Science, The University of Tokyo	New Formulation of Statistical Physics Based on Thermal Pure Quantum States
SUZUKI Wakana	Graduate School of Human Sciences, Osaka University	Resistance and Accommodation: the Ethnography of Regenerative Medicine
TATSUMI Masako	Graduate School of Humanities and Sciences, Ochanomizu University	Research on Inheritance and Shobunjo in Medieval Japan
TANAKA Sota	Graduate School of Humanities and Sociology, The University of Tokyo	A Study on Hentai Kambun
NAKAHATA Masaki	Graduate School of Science, Osaka University	Functional Supramolecular Materials Based on Stimuli-responsive Macroscopic Self-assembly
NAKAMURA Kyohei	Graduate School of Medicine, Tohoku University	Natural Killer Cell Death Mediated by Intercellular Communication, Trophocytosis
HAYAKAWA Takashi	Graduate School of Science, Kyoto University	Elucidation of Mechanism of Molecular Evolution and Ecological Adaptation of the Bitter Taste Receptor Gene Repertoire in Primates
MAGATA Fumie	Graduate School of Animal Husbandry, Obihiro University of Agriculture and Veterinary Medicine	Mechanism of the Negative Impact of Endotoxin on Ovarian Functions Associated with Endometritis in Dairy Cows
MASHIMA Izumi	Graduate School of Dentistry, Health Sciences University of Hokkaido	Development of Molecular Biological Control Method for Oral Biofilm at Early Stage
LI Guangqin	Graduate School of Science, Kyoto University	Creation of Innovative Function by Hybrid of Metal Nanoparticles and Metal-organic Frameworks

## 4th (FY2013) JSPS *Ikushi* Prize recipients

NAME	AFFILIATION	RESEARCH TITLE
IIMA Mami	Graduate School of Medicine, Kyoto University	The Development of a New Non-invasive Diagnostic Tool for Investigating Breast Cancer Using Diffusion Weighted MRI
OHUE Masahito	Graduate School of Information Science and Engineering, Tokyo Institute of Technology	A Protein-protein Interaction Network Prediction Method Based on Tertiary Structure Information
KUMAZOE Motofumi	Graduate School of Bioresource and Bioenvironmental Sciences, Kyushu University	Molecular Mechanisms of Epigallocatechin-gallate-induced Cancer-specific Cell Death
KOHNO Nanase	Graduate School of Science, Hiroshima University	Unified Study of Kinetics and Dynamics on the Elementary Processes in Collisions of Vibrationally Excited Molecules
KOBAYASHI Atsushi	Graduate School of ASian and AFrican Area Studies, Kyoto University	The Role of Intra-Southeast Asian Trade for the Development of Regional Economy in the 19th Century
KOMURA Mizuki	Graduate School of Economics, Nagoya University	Public Policy Analysis of Family Bargaining
NAKAHATA Yoshihisa	School of Life Science, The Graduate University for Advanced Studies	Activation-Dependent Spatial Dynamics of Postsynaptic Glycine Receptors
HAMAMUKI Nao	Graduate School of Mathematical Sciences, The University of Tokyo	Crystal Growth Phenomena and Hamilton-Jacobi Equations
FUKAYA Takashi	Graduate School of Frontier Sciences, The University of Tokyo	Analysis of MicroRNA-mediated Gene Silencing
FURUICHI Noritoshi	Graduate School of Arts and Sciences, The University of Tokyo	Sociology of Young Entrepreneurs in Japan
HEIANZA Yoriko	Graduate School of Comprehensive Human Science, University of Tsukuba	Development of Optimal Strategies for Predicting and Screening Risk of Type2 Diabetes in Japanese Individuals
MATSUSHITA Takashi	Graduate School of Letters, Hokkaido University	Research of Contemporary Russian Literature after the Dissolution of USSR
MIYAKE Fusa	Graduate School of Science, Nagoya University	Reconstruction of Cosmic-ray Intensity in the Past from Measurements of Radiocarbon in Tree Rings
MUKAI Hiromi	The United Graduate School of Agricultural Sciences, Kagoshima University	Studies on Parent-Embryo Interaction and Its Communication Mechanism in Subsocial Stink Bugs
MOCHIZUKI Kenji	School of Physical Sciences, The Graduate University for Advanced Studies	Theoretical Study on the Molecular Mechanism of Ice Melting and the Local Structure of Aqueous Solution
MORIMOTO Yuya	Graduate School of Information Science and Technology, The University of Tokyo	Construction of Robotic Actuator by In Vitro Reconstruction of Tissue Structure
YAMASAKI Seiji	Graduate School of Pharmaceutical Sciences, Osaka University	Drug Development Against Resistant Bacterial Infections Using the Structural-functional Information of Multidrug Efflux Pumps
LIANG Yong	Graduate School of Engineering, Kyoto University	Beam-steering Photonic-crystal Lasers

### 3rd (FY2012) JSPS *Ikushi* Prize recipients

Research Areas	NAME	AFFILIATION	RESEARCH TITLE
Humanities and Social Sciences	HIOKI, Takayuki	Graduate School of Humanities and Sociology, The University of Tokyo	Study of kabuki in bakumatsu (late Edo period) and Meiji era
	HISAYAMA, Yuho	Graduate School of Human and Environmental Studies, Kyoto University	History of the Concept of "Geist" in the German-speaking World from 1750 to 1850
	FUKUDA, Maki	Graduate School of Law, Nagoya University	Legal History of Pardon in France
	YAMAMOTO, Kentaro	Graduate School of Human-Environment Studies, Kyushu University	Elucidation of the mechanism of temporal processing in the brain based on hierarchical processing of motion information
Science, Mathematics and Engineering	SAKAZAKI, Takatoshi	Graduate School of Environmental Science, Hokkaido University	Quest for the unified picture of diurnal variability in the troposphere and stratosphere
	TAKAYAMA, Akari	Graduate School of Science, Tohoku University	Ultrahigh-resolution spin-resolved ARPES study of two-dimensional Rashba electron system
	TAKIDA, Yuma	Graduate School of Engineering, Osaka City University	Development of Doubly-Resonant Terahertz-Wave Parametric Sources Using High -Efficiency Conversion Technique
	TSUKIZAKI, Ryudo	School of Engineering, The University of Tokyo	Plasma Diagnostics inside the Microwave Discharge Ion Engine and The Enhancement of its Thrust Force
	MIYAJIMA, Daigo	School of Engineering, The University of Tokyo	Development of Novel Soft Materials Based on Hydrogen Bondings
Biological and Medical Sciences	OKUDA, Satoshiro	Graduate School of Science, Nagoya University	Study of the mechanism of pollen tube guidance by identification of attractant peptide LUREs and their receptors
	KATAYAMA, Kota	Graduate School of Engineering, Nagoya Institute of Technology	FTIR Study of Primate Color Visual Pigments
	KATO, Hideaki	School of Science, The University of Tokyo	X-ray crystallographic analysis of a light-gated cation channel, channelrhodopsin
	KODA, Keiko	Interdisciplinary Graduate School of Science and Technology, Shinshu University	Ecological studies to conserve the endangered lycaenid butterflies living in Satoyama
	SATO, Yuya	Graduate School of Agricultural and Life Sciences, The University of Tokyo	Elucidation of the relation between oxygen, electron, and life, through the metabolism of an evolutionarily-ancient bacterium
	TOHYAMA, Shugo	School of Medicine, Keio University	Distinct Metabolic Flow Enables Large-Scale Purification of Pluripotent Stem Cell-Derived Cardiomyocytes
	TOMINAGA, Akiyoshi	The United Graduate School of Agricultural Sciences, Kagoshima University	Investigation of the molecular bases of advanced symbiotic nitrogen fixation activity in leguminous plants and rhizobium, and the application to crop

## 2nd (FY2011) JSPS *Ikushi* Prize recipients

Research Areas	NAME	AFFILIATION	RESEARCH TITLE
Humanities and Social Sciences	KANO, Fumihiro	Graduate School of Science, Kyoto University	A Comparative Eye-Tracking Study in Four Genera of Hominid: Face and Scene Scanning
	SAKAMOTO, Hiroaki	Graduate School of Economics, Kyoto University	Economic Analysis of Climate Change with Agent Heterogeneity and Impact Uncertainty
	HAYASHI, Eiichi	Graduate School of Economics, Keio University	The Social History of a Japanese Soldier Who Stayed Behind-Modern Japan of Southeast Asian History-
	YATSUNAMI, Ren	Graduate School of Law, Kyushu University	Rules on International Trust
Science, Mathematics and Engineering	ITO, Hideto	Graduate School of Science, Hokkaido University	Construction of Specific Catalytic Environment by Semihollow-Shaped Triethynylphosphine Ligand and Its Application to Transition Metal-Catalyzed Reaction
	GONGYO, Yoshinori	Graduate School of Mathematical Sciences, The University of Tokyo	Minimal Models and Abundance
	TAKIGAWA, Aki	School of Science, The University of Tokyo	Formation and Evolution of Alumina Dust around Evolved Stars: Toward the Next Stage of Astromineralogy
	YAMAZAKI, Dai	School of Engineering, The University of Tokyo	A Physically-Based Modeling of Large-Scale Flooding in Continental Rivers of the World
	YAMAMOTO, Koji	Graduate School of Engineering Science, Osaka University	Development of Novel Carbon-Carbon Bond Formations with Elimination of Dihydrogen
	YOSHIDA, Yuichi	Graduate School of Informatics, Kyoto University	Sublinear-Time Algorithms for Graphs and Constraint Satisfaction Problems
Biological and Medical Sciences	ISHII, Kenichi	Graduate School of Pharmaceutical Sciences, The University of Tokyo	Research on Regulatory Systems of Innate Immunity and Establishment of Immune-Related Disease Model in the Silkworm <i>Bombyx mori</i>
	KAMIOKI, Masayoshi	Graduate School of Science, Rikkyo University	Nocturnal Song in Birds: The Costs and Benefits of Acoustic Communication in the Darkness
	KOYAMA, Masako	Graduate School of Science, Nagoya University	Structural Basis for CRM1-Mediated Nuclear Export
	TAKAHARA, Mitsuyoshi	Graduate School of Medicine, Osaka University	Establishment of Optimal Statistical Models for Assessing the Risk of Atherosclerotic Disease
	NAKAYAMA, Shouta	Graduate School of Veterinary Medicine, Hokkaido University	Assessment of Toxicological Effects of Environmental Pollutants on the Wildlife in Africa
	NISHIE, Mami	Graduate School of Bioresource and Bioenvironmental Sciences, Kyushu University	Studies on Lantibiotic Biosynthesis and Mode of Action for Novel Peptide Designing
	HASEGAWA, Yuko	School of Engineering, The University of Tokyo	The Regulatory Mechanisms of Xist RNA in X-Chromosome Inactivation

## 1st (FY2010) JSPS *Ikushi* Prize recipients

Research Areas	NAME	AFFILIATION	RESEARCH TITLE
Humanities and Social Sciences	ICHIKAWA, Akira	Graduate School of Letters, Nagoya University	An Archaeological Study on the Societies of Classic Period of Mesoamerica and Its Formation Processes
	TAKAGISHI, Haruto	Graduate School of Letters, Hokkaido University	The Role of Theory of Mind in Altruistic Behavior
	TAKEMURA, Hiromasa	Graduate School of Arts and Sciences, The University of Tokyo	Psychophysical Study for Visual Motion Processing Based on Spatial and Temporal Interaction of Visual Signal
	NISHIDA, Ai	Graduate School of Foreign Language Studies, Kobe City University of Foreign Studies	Old Tibetan Divination Manuscripts from Central Asia
	NISHIMOTO, Noa	Graduate School of Asian and African Area Studies, Kyoto University	A Descriptive Study of the Antandroy Dialect of Malagasy
	YOSHIE, Michiko	Graduate School of Arts and Sciences, The University of Tokyo	Psychophysiological Study of the Effects of Social-Evaluative Stress on Motor Performance in Pianists
Science, Mathematics and Engineering	UCHIDA, Ken-ichi	Graduate School of Science, Tohoku University	Exploration of Fundamental Physics and Application Technology on Thermo-Spin Effects
	KITAJIMA, Masaaki	Graduate School of Engineering, The University of Tokyo	Molecular Epidemiological Analysis of Pathogenic Viruses in Water Environments and Control Risk of Infection
	SASADA, Makiko	Graduate School of Mathematical Sciences, The University of Tokyo	Hydrodynamic Limits for Systems of Non-Gradient Type
	NOBUKAWA, Masayoshi	Graduate School of Science, Kyoto University	X-Ray Study of the Galactic Center Region with Suzaku
	YANAGISAWA, Shuichi	Graduate School of Science, Nagoya University	Arene-Assembling Reactions through Direct C-H Bond Functionalization
Biological and Medical Sciences	IKENAGA, Naoki	Graduate School of Medical Sciences, Kyushu University	Development of the Selective Stromal-Directed Therapies Targeting the Specific Pancreatic Stellate Cells Enhancing the Progression of Pancreatic Cancer
	SEKI, Tomohisa	Graduate School of Medicine, Keio University	Generation of Induced Pluripotent Stem Cells from Human Terminally Differentiated Circulating T Cells
	NAKAI, Ryosuke	Graduate School of Biosphere Science, Hiroshima University	Phylogeographic Analysis of Microorganisms in the Arctic and Antarctic Polar Regions
	HORIE, Masayuki	Graduate School of Medicine, Osaka University	Endogenous Non-Retroviral RNA Virus Elements in Mammalian Genomes
	YAMAGISHI, Yuya	Graduate School of Science, The University of Tokyo	Analysis of the Function and the Localization Mechanism of the Conserved Protein Shugoshin
	YOSHIDA, Ayako	Graduate School of Agricultural and Life Sciences, The University of Tokyo	Structural Biology on Amino Acid Kinases Involved in Amino Acid Biosynthesis