

## 12th (FY2015) JSPS Prize recipients

Research Areas	NAME	AFFILIATION	RESEARCH TITLE
Integrated Disciplines	KATSURA Seiichiro	Associate Professor, Faculty of Science and Technology, Keio University	Real-World Haptics and Its Application Technologies to Spatiotemporal Extension of Motion and Sensation
	SADAKANE Kunihiko	Professor, Graduate School of Information Science and Technology, The University of Tokyo	Development of Succinct Data Structures for Large-scale Data Processing
	TANIMOTO Hiromu	Professor, Graduate School of Life Sciences, Tohoku University	Neural Circuits for Memory Formation in Drosophila
Humanities and Social Sciences	OTA Atsushi	Associate Professor, Graduate School of Letters, Hiroshima University	Total History of the Indonesian Local Society in Early-Modern and Modern Ages: Impact of Environment, State, Islam, Outside Merchants, Migrants, and Global Economy
	OYAMA Yuzuruha	Senior Manager of Decorative Arts, Curatorial Research Department, Tokyo National Museum, Independent Administrative Institution National Institutes for Cultural Heritage	Cultural Resources Study Perspective on Antique Textile Called 'Tsujiga-Hana'
	TAKAMURA Gakuto	Professor, College of Policy Science, Ritsumeikan University	Legal Structuring of Joint Management Rules on Urban Common Resources through the Reconstruction of Living Law Theory
	MURAYAMA Kou	Associate Professor, Department of Psychology, University of Reading	Critical Roles of Motivation in Learning: A Multi-Method Approach
	WATANABE Shinya	Professor, Faculty of Humanities, Nanzan University	A Study of Complex Societies in the Ancient Andes
Mathematics; Physical Sciences; Chemistry; Engineering Sciences	IKEGAMI Hiroki	Senior Research Scientist, The Center for Emergent Matter Science, RIKEN	Direct Demonstration of Time-Reversal Symmetry Breaking in Chiral Superfluid $^3\text{He}$
	UENISHI Koji	Associate Professor, Graduate School of Engineering, The University of Tokyo	Studies on the Generation Mechanism of Earthquakes Based on Fracture Dynamics of Solids and the Development of Controlled Fracture in Solids
	UEMURA Takashi	Associate Professor, Graduate School of Engineering, Kyoto University	Creation of Functional Polymers Using Coordination Nanospaces
	KIGA Daisuke	Associate Professor, Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology	Construction of Artificial Life System by Synthetic Biology
	SAITOH Kunimasa	Professor, Graduate School of Information Science and Technology, Hokkaido University	A Study on Advanced Design and Applications of Microfine-Structured Optical Fibers
	SEKITANI Tsuyoshi	Professor, The Institute of Scientific and Industrial Research, Osaka University	Development of Ultraflexible Organic Transistor Integrated Circuits and Its Applications to Large-Area Sensors
	NISHIDA Kiwamu	Associate Professor, Earthquake Research Institute, The University of Tokyo	Studies on Seismic Hum
	HAYASHI Masahito	Professor, Graduate School of Mathematics, Nagoya University	Information Theory and Quantum Information Theory for Finite-Coding-Length
	HINO Masanori	Professor, Graduate School of Engineering Science, Osaka University	Theory of Dirichlet Forms and Application to Stochastic Analysis
MAEDA Satoshi	Associate Professor, Graduate School of Science, Hokkaido University	Development of Theoretical Approaches for Automated Exploration of Chemical Reaction Pathways	
Biological Sciences; Agricultural Sciences; Medical, Dental, Pharmaceutical Sciences	IGARASHI Kiyohiko	Associate Professor, Graduate School of Agricultural and Life Science, The University of Tokyo	Elucidation of Molecular Mechanisms in the Enzymatic Degradation of Cellulosic Biomass
	KAWAGUCHI Akira	Chief, Department of Agricultural, Forestry and Fisheries, Okayama Prefectural Government	Development of Biological Control for Grapevine Crown Gall
	Kitano Jun	Professor, Department of Population Genetics, National Institute of Genetics, Research Organization of Information and systems	Genetic Mechanisms of Speciation and Adaptive Evolution in Sticklebacks
	TAKEUCHI Osamu	Professor, Institute for Virus Research, Kyoto University	Clarification of Molecular Mechanisms Underlying Inflammation Control in Innate Immunity
	NISHIMURA Yukio	Associate Professor, National Institute for Physiological Sciences, National Institutes of Natural Sciences	Development of Neuroprosthesis and Understanding Neural Mechanism of Functional Recovery after Neural Damage
	HASE Koji	Professor, Faculty of Pharmacy, Keio University	The Regulatory Mechanism of Mucosal Immune Response
	MATSUBAYASHI Yoshikatsu	Professor, Graduate School of Science, Nagoya University	Identification of Novel Peptide Hormones Involved in Plant Growth and Environmental Responses