

○ Prizes for Science and Technology (Technology category)

Name	Title	Achievement (literal translation)
Mitsutoshi Ichimura	Department Chief, Planning Department, Maruzen Co., Ltd.	Development of printing technology for antibacterial food packaging
Tomonori Kishino	Division Chief, Second Division, Production Department, Maruzen Co., Ltd.	
Yoichi Sanagi	Chief Clerk, Second Division, Production Department, Maruzen Co., Ltd.	
Hiroshi Shirakawa	Senior Researcher, Kagawa Prefectural Industrial Technology Center	
Ryuichi Ueno	Representative Director, Ueno Co., Ltd.	Development of a toroidal coil automatic production device
Kazuyoshi Ohashi	Director / Technical Department Chief, CK Metals Co., Ltd.	Development of lead- and cadmium-free hot-dip galvanized coatings for environmental protection
Norio Owada	President, ABI Co., Ltd.	Development of innovative refrigeration technology for long-term storage using the ABI Cells Alive System technique
Keiichi Katayama	Representative Director, Ocean Construction Co., Ltd.	Development of artificial reefs using recycled shells
Masaki Katayama	Senior Managing Director, Ocean Construction Co., Ltd.	
Minoru Tahara	Manager, Fishing Materials Sections, Overseas Business Section, Petroleum Procuring Section, Petroleum Supply Section, Petroleum & Fishing Materials Department, National Federation for Inland Fisheries Cooperatives	
Takayuki Katayama	Department Head, Research Department, Ocean Construction Co., Ltd.	
Tadao Kato	Advisor Director, Nissin Precision Machines Co., Ltd.	Development and training of three-dimensional pipe bending processing by use of push-through dies
Kazuyoshi Kimura	President & C.E.O., Shelter Co., Ltd.	Development of a metal joint construction method for wooden constructions
Fumio Sakiya	C.E.O., President, Lhotse, Ltd.	Development of a dual-arm SCARA substrate transfer robot
Kohei Sawa	Representative Director, Clean SAWA Co.	Development of a dry cleaning method and associated device
Atsushi Takata	President, Nano TEM Co. Ltd.	Development of large-size, light-weight porous ceramic plates
Kozo Ishizaki	Professor, Department of Mechanical Engineering / Material Science and Engineering group, Nagaoka University of Technology	
Koji Matsumaru	Specially Appointed Associate Professor, Top Runner Incubation Center for Academia-Industry Fusion, Nagaoka University of Technology	
Kiyoharu Nagayoshi	Representative Director, Evuc Ltd.	Development of a cuffless hose
Hirohiko Hirao	Leader, PCB Chemicals Team, Shikoku Chemicals Corporation	Development of a water-soluble heat-resistant pre-flux
Toshihiro Okamoto	Fine Chemicals Manufacturing Sec., Marugame Plant, Shikoku Chemicals Corporation	
Miya Tanioka	Assistant Leader, PCB Chemicals Team, Shikoku Chemicals Corporation	
Takayuki Murai	Senior Associate Chemist, PCB Chemicals Team, Shikoku Chemicals Corporation	
Takashi Yoshioka	President and C.O.O., Shikoku Chemicals Corporation	Development of a wire saw cutting apparatus and method for concrete structures
Seishi Hirata	Director / Head of Technology, Technology Department, Nippon Fastem Co., Ltd.	
Masumi Fujita	Managing Director, JRCS MFG.CO., LTD.	Development of a space-saving system for an uninterrupted supply of electric power from shore to ship
Hideo Matsumoto	President, DREMAX Co., Ltd.	Development of a vegetable slicer using planetary motion of a round blade
Yoshiro Miyagawa	Chief Operating Officer, Miyagawa Industry Co., Ltd.	Development of a wood-cutting machine using a multi-joint industrial robot
Noriyoshi Yoshimura	President and Representative Director, Cooma Co., Ltd	Development of high-function socks that work with the wearer's foot shape and movements
Toshitsugi Wakayama	Representative Director, Showa Freezing plant Co., Ltd.	Development of a nitrogen gas freezing system



○ Prizes for Science and Technology (Public Understanding Promotion Category)

Name	Title	Achievement (literal translation)
Noriko Arai	Professor, Information and Society Research Division, National Institute of Informatics, Research Organization of Information and Systems	Promoting public awareness of ICT in schools and education through NetCommons
Ryuji Masukawa	Project Assistant (by Special Appoint), Research Integration Center, Research Organization of Information and Systems	
Tomohiro Ishikawa	Associate Professor, Department of Monozukuri Engineering, Tokyo Metropolitan College of Industrial Technology, Tokyo Metropolitan University	Promoting understanding of science among young people through a nano-satellite development project
Masakatsu Nakano	Associate Professor, Department of Monozukuri Engineering, Tokyo Metropolitan College of Industrial Technology, Tokyo Metropolitan University	
Ryoji Wakabayashi	Associate Professor, Department of Monozukuri Engineering, Tokyo Metropolitan University	
Teijiro Ichimura	Professor Emeritus, Tokyo Institute of Technology	20 years of promoting public awareness of science by organizing the annual Royal Institution Christmas Lectures
Takeshi Ito	Assistant Professor, Department of Communication Engineering and Informatics, Faculty of Informatics and Engineering, University of Electro-Communications	Promoting public awareness of game informatics
Hitoshi Matsubara	Professor, School of Systems Information Science, Future University Hakodate	
Masakazu Muramatsu	Professor, Department of Communication Engineering and Informatics, Graduate School of Informatics and Engineering, University of Electro-Communications	
Tetsuro Nishino	Professor, Department of Informatics, Graduate School of Informatics and Engineering, University of Electro-Communications	
Junji Nishino	Assistant Professor, Department of Informatics, Graduate School of Informatics and Engineering, University of Electro-Communications	
Hiroyoshi Inoue	Professor, School of Medicine, Keio University	Promoting understanding of nuclear and radiation technology
Toshikazu Ebisuzaki	Chief Scientist, Computational Astrophysics Laboratory, RIKEN Advanced Science Institute	Promoting understanding of science through creative promotional activities by researchers
Hiroko Kano	Associate Professor, Institute of Arts and Sciences, Yamagata University	Promoting public awareness of information science through publications
Yoshisuke Kumano	Professor, Department of Science Education, College of Education, Shizuoka University	Promoting broad understanding of science and technology and environmental protection at the national and regional level
Amane Koizumi	Associate Professor, National Institute for Physiological Sciences, National Institutes of Natural Sciences	Promoting understanding of mental and physical sciences based on the latest medical physiology
Shinpei Shibata	Professor, Faculty of Science, Yamagata University	Promoting understanding physical science by establishing and promoting throughout the country the "star sommelier" program
Takehiro Hayashi	Professor, Graduate School of Education, Hiroshima University	Promoting understanding of pioneering science to middle and high school students interested in science
Takashi Suzuki	Professor, Graduate School of Advanced Sciences of Matter, Hiroshima University	
Hideyuki Yamane	Managing Director Secretary General, Mazda Foundation	

Name	Title	Achievement (literal translation)
Norio Hirano	Associate Professor, Faculty of Agriculture, Iwate University	Promoting understanding among families and the local community through children's experiential environmental education
Shogo Kajiwara	Associate Professor, Faculty of Education, Iwate University	
Eiichi Kitazume	Professor, Faculty of Humanities and Social Sciences, Iwate University	
Kenji Shimizu	Professor, Department of Chemistry and Bioengineering, Faculty of Engineering, Iwate University	
Jun Yoshida	Financial Planning, Office of Finance, Iwate University	
Yutaka Morita	Director / Head of Publishing, Asakura Publishing Co., Ltd.	Promoting understanding of chemistry through publishing a polymer analysis handbook
Yoshiharu Morimoto	Representative Director, Moire Institute	Promoting understanding of science through a teaching method to foster initiative and creativity
Takami Yamaguchi	Professor, Department of Biomedical Engineering, Graduate School Of Biomedical Engineering, Tohoku University	Promoting awareness of Medical Engineering through re-educating engineers in medicine and biology
Yukio Yamamoto	Operations Director, Publishing Department, Maruzen Co., Ltd.	Promoting understanding of science through building an online database
Mari Yamamoto (Mari Oshima)	Professor, Interfaculty Initiative in Information Studies, Graduate School of Interdisciplinary Information Studies, The University of Tokyo	Promoting understanding of science and technology through science education incorporating pioneering research

○ Young Scientists Prize

Name	Title	Achievement (literal translation)
Satoshi Aihara	Principal research engineer, Imaging and Recording Devices Division, Science & Technical Research Laboratories, Japan Broadcasting Corporation	Research into organic photoconductive film for optical imaging devices
Tetsuya Akagi	Associate Professor, Department of Intelligent Mechanical Engineering, Faculty of Engineering, Okayama University of Science	Development of wearable pneumatic control valves
Hiroshi Arai	Senior Research Officer, Structural Standards Division, Building Department, National Institute for Land and Infrastructure Management	Research into a simple method to estimate seismic damage to buildings based on microtremor geophysical surveying
Takuya Iida	Ph.D. Special Lecturer, Nanoscience and Nanotechnology Research Center, Research Organization for the Twenty-First Century, Osaka Prefecture University	Research into dynamics control technology and theory of light-induced force in nanoparticles
Masaru Ishii	Associate Professor (full-time), WPI Immunology Frontier Research Center, Osaka University	Research into osteoclast function visualized by in vivo bone imaging
Takuji Ishikawa	Associate Professor, Graduate School of Engineering, Tohoku University	Research into a new bottom-up approach to the study of swimming microbes
Naotada Ishihara	Professor, Department of Protein Biochemistry, Institute of Life Science, Kurume University	Research into molecular mechanisms and physiological roles of mitochondrial fusion and fission in mammalian cells
Takanori Uchida	Assistant Professor, Division of Renewable Energy Dynamics, Research Institute for Applied Mechanics, Kyushu University	Research into visual specifics and mechanical frameworks in wind risk evaluations of windmills
Tetsuya Uchimoto	Associate Professor, Institute of Fluid Science, Tohoku University	Research into electromagnetic nondestructive evaluation of graphite structures in flake graphite cast iron
Takeaki Uno	Associate Professor, Principles of Informatics Research Division, National Institute of Informatics, Research Organization of Information and Systems	Research into building fast algorithms for large-scale data analysis
Toshiyasu Unno	Researcher, Penta-Ocean Construction Institute of Technology, Goyo Construction Co., Ltd.	Research into the dynamic behavior of unsaturated sandy soils subject to vibration



Name	Title	Achievement (literal translation)
Miho Osugi	Associate Professor, Institute of Medical Science, The University of Tokyo	Research into mechanisms for chromosome segregation in early-stage mammalian embryos
Hideki Omura	Senior Researcher, Research Institute of Instrumentation Frontier, National Institute of Advanced Industrial Science and Technology	Research into molecular manipulation techniques using a phase-controlled laser pulse
Seiji Okada	Associate Professor, Institute for Advanced Study, Kyushu University	Research into nerve regeneration following spinal cord injury
Yoji Okabe	Associate Professor, Institute of Industrial Science, University of Tokyo	Research embedded ultrasonic diagnosis system for health monitoring of composite materials
Hiroataka Oda	Assistant Professor, Center for Chronological Research, Nagoya University	Research into radiocarbon dating of ancient Japanese documents and writings
Tokitaka Oyama	Associate Professor, Graduate School of Science, Kyoto University	Research into Circadian systems of photosynthetic organisms
Aya Kagechika (Aya Tanatani)	Associate Professor, Graduate School of Human Development Sciences, Ochanomizu University	Research into construction and dynamic structural regulation of functional aromatic foldamers
Kazutoshi Katahira	Senior Research Scientist, Materials Fabrication Laboratory, RIKEN Advanced Science Institute	Research into the effect of surface modification on corrosive response during grinding
Tatsuo Kaneko	Associate Professor, School of Materials Science, Japan Advanced Institute of Science and Technology	Research into gigantic liquid-crystalline biopolymers
Naokazu Kano	Associate Professor, Graduate School of Science, University of Tokyo	Synthesis of fluorescence by utilizing main-group elements
Shu Kawaguchi	Associate Professor, Graduate School of Science, Osaka University	Research into canonical height
Tsuneomi Kawasaki	Lecturer, Research Institute for Science and Technology, Tokyo University of Science	Research into asymmetric induction arising from enantiomerically enriched carbon-13 isotopomers and highly sensitive chiral discrimination by asymmetric autocatalysis
Hiroshi Kitagaki	Associate Professor, Faculty of Agriculture, Saga University	Mitochondrial-morphology-targeted breeding of industrial yeast strains
Kazuo Kitamura	Assistant Professor, Graduate School of Medicine, University of Tokyo	Research into pioneering imaging in the field of biophysics
Takashi Kimura	Professor, INAMORI Frontier Research Center, Kyushu University	Research into generation and control of spin current in metallic nanostructures
Yuki Kimura	Assistant Professor, Graduate School of Science, Tohoku University	Research into astro-nano-mineralogy
Nobuyuki Kutsukake	Assistant Professor, School of Advanced Sciences, Graduate University for Advanced Studies	Research into the biological basis of social behavior of mammals
Atsushi Kubo	Assistant Professor, Graduate School of Pure and Applied Sciences, University of Tsukuba	Research into femtosecond photoemission technology of nanoscale light - electronic responses
Ryoichi Kurose	Associate Professor, Graduate School of Engineering, Kyoto University	Research into the clarification and simulation of particle dispersion mechanisms in turbulent flows
Tomohiro Kuwae	Group Leader, Coastal and Estuarine Environment Group, Port and Airport Research Institute	Research into the structure and function of intertidal flats and their preservation
Masaaki Komatsu	Protein Degradation Project Leader, Tokyo Metropolitan Institute of Medical Science	Research into the disruption of autophagy in the pathogenesis of disease
Hiroataka Sakamoto	Associate Professor, Graduate School of Natural Science and Technology, Okayama University	Research into local neural circuits in the lumbar spinal cord controlling male sexual behavior
Tatsuhiko Sato	Senior Researcher, Nuclear Science and Engineering Directorate, Japan Atomic Energy Agency	Integrated study relating to an evaluation of the effects of high-energy radiation exposure
Yuki Sawai	Senior Researcher, Active Fault and Earthquake Research Center, National Institute of Advanced Industrial Science and Technology	Research into historical account of large earthquakes using coastal sedimentation

Name	Title	Achievement (literal translation)
Shinsuke Sando	Professor, INAMORI Frontier Research Center, Kyushu University	Research into functional nucleic acid systems for biomolecular analysis
Junji Shikata	Associate Professor, Graduate School of Environment and Information Sciences, Yokohama National University	Research into encryption and authentication theories with information theoretic security
Yasuteru Shigeta	Specially Appointed Associate Professor, Graduate School of Life Science, University of Hyogo	Research into molecular theory including quantum and thermal fluctuations
Tatsuo Shibata	Associate Professor, Graduate School of Science, Hiroshima University	Research relating to stochastic cellular information processing systems
Atsushi Shiho	Associate Professor, Graduate School of Mathematical Sciences, The University of Tokyo	Research into p-adic cohomology and p-adic fundamental groups in arithmetic geometry
Hirofumi Shimizu	Lecturer, Faculty of Medical Sciences, University of Fukui	Research into the single-molecular gating motions of ion channels with diffracted x-ray tracking method
Akira Shirakawa	Assistant Professor, Institute for Laser Science, The University of Electro-Communications	Development of a coherent beam combining of fiber lasers
Motoaki Sugiura	Associate Professor, Institute of Development, Aging and Cancer, Tohoku University	Research into brain mechanisms for self-recognition
Taku Suzuki	Senior Researcher, Quantum Beam Center, National Institute for Materials Science	Research into the effect of polarized ion beams on surface magnetism
Michiko Takasu (Michiko Takahashi)	Associate Professor, Faculty of Agriculture, Utsunomiya University	Research into the role and function of nicotianamine in vascular plants
Eiji Takahashi	Senior Research Scientist, Intense Attosecond Pulse Research Team, RIKEN Advanced Science Institute	Research into the generation of highly coherent submicrojoule soft x-rays by high-order harmonics
Daisuke Takahashi	Associate Professor, Center for Computational Sciences, Graduate School of System and Information Engineering, University of Tsukuba	Research into fast Fourier transform algorithms
Hidehiko Takahashi	Lecturer, Graduate School of Medicine, Kyoto University	Research into social affective neuroscience
Takumi Takizawa	Assistant Professor, Graduate School of Biological Sciences, Nara Institute of Science and Technology	Research into DNA methylation and gene arrangement relating to neural stem cell control
Jun Takeuchi	Associate Professor, Cardiovascular Regeneration Group, Laboratory of Epigenetic Regulations, Institute of Molecular and Cellular Biosciences, The University of Tokyo	Research into epigenetic factors and cardiac development
Azusa Takeuchi (Azusa Kamikochi)	Assistant Professor, School of Life Sciences, Tokyo University of Pharmacy and Life Sciences	Research into Drosophila as a neural model to understand how sound, gravity, and wind information are processed in the brain
Hiroki Takesue	Senior Research Scientist, NTT Basic Research Laboratories, Nippon Telegraph and Telephone Corporation	Research into high-speed and long-distance quantum cryptography in telecommunication wavelength bands
Naoya Tajima	Senior Research Scientist, Condensed Molecular Materials Laboratory, RIKEN Advanced Science Institute	Discovery of the Organic Zero-Gap-Conductor and research into electric conductivity
Mizuki Tada	Associate Professor, Electronic Structure Division, Department of Materials Molecular Science, Institute for Molecular Science, National Institutes of Natural Sciences	Research into surface-mediated catalyst design for highly active and selective catalysis
Hideaki Tanaka	Assistant Professor, Institute for Protein Research, Osaka University	Research into the structure determination of macromolecular vaults
Motohiro Tani	Associate Professor, Institute for Advanced Study, Kyushu University	Research into a topology of sphingolipid signaling pathways



Name	Title	Achievement (literal translation)
Masateru Taniguchi	Associate Professor, Department of Nanotechnology for Industrial Applications, Institute of Scientific and Industrial Research, Osaka University	Development of a self-assembled interconnect method for molecular devices and research into their electrical properties
Hayato Tsuji	Associate Professor, Department of Chemistry, Graduate School of Science, University of Tokyo	Development of a new class of organic functional materials and contributing to innovation in organic electronic materials
Yukihide Tomari	Associate Professor, Institute of Molecular and Cellular Biosciences, University of Tokyo	Research into the mechanism of small RNAs
Makiko Nagasawa	Tenure Track Assistant Professor, Global Edge Institute, Tokyo Institute of Technology	Research into the role of secular resonance in the formation and evolution of planetary systems
Junichi Nakayama	Team Leader, Laboratory for Chromatin Dynamics, RIKEN Center for Developmental Biology	Research into regulation of gene expression by chromatin remodeling
Masaya Nogi	Assistant Professor, Institute of Scientific and Industrial Research, University of Osaka	Research into the deposition of transparent materials on cellulose nanofiber sheets
Taku Hasobe	Associate Professor, Department of Chemistry, Faculty of Science and Technology, Keio University	Research into the formation and application of supramolecular structures with photoelectronic properties
Akitoshi Hayashi	Assistant Professor, Graduate School of Engineering, Osaka Prefecture University	Development of glass-ceramic electrolytes for all-solid-state lithium batteries
Taro Hitosugi	Associate Professor, WPI Research Center, Advanced Institute for Materials Science, Tohoku University	Research into transparent conductive materials as an alternative to ITO
Toshihiko Hirooka	Associate Professor, Research Institute of Electrical Communication, Tohoku University	Research into ultrahigh-speed OTDM transmission using time-domain optical Fourier transformation
Eiji Hoshi	Professor, Brain Science Institute, Tamagawa University	Research into neural mechanisms underlying voluntary motor behavior
Yutaka Maeda	Associate Professor, Faculty of Education, Tokyo Gakugei University	Research into the formation of functional nanocarbon clusters through selective molecular transformation
Yutaka Matsuo	Project Professor, Graduate School of Science, The University of Tokyo	Research into the synthesis and photocurrent properties of organometallic fullerene derivatives
Tomonao Matshushita	Superstar Program Researcher, Institute for Advanced Study, Kyushu University	Research into mechanisms by which phytochromes transduce light signals in plants
Takashi Mukaiyama	Associate Professor, Center for Higher Education Development and Research, University of Electro-Communications	Research into macroscopic quantum phenomena in atomic and molecular gases
Hidekazu Mukuda	Associate Professor, Graduate School of Engineering Science, Osaka University	Research into NMR on strongly correlated electron systems
Shuichi Murakami	Associate Professor, Graduate School of Science and Engineering, Tokyo Institute of Technology	Theoretical study into the Spin Hall Effect
Motohiko Murakami	Associate Professor, Graduate School of Science, Tohoku University	Properties of and phase transition at the core-mantle boundary and the lower mantle
Yoichi Murakami	Assistant Professor, Global Edge Institute, Tokyo Institute of Technology	Research into the optical absorption and emission properties of single-walled carbon nanotubes
Hideo Mori	Associate Professor, Graduate School of Engineering, Kyushu University	Development of pioneering measuring techniques and their application to low-density gas flows
Takao Yanagihara	Researcher, Research Division, Kanagawa Rehabilitation Center	Research into guidance systems using spatial recognition for people with visual impairments
Koji Yano	Associate Professor, Graduate School of Science, Kobe University	Research into the application of excursion theory to limit theorems
Makina Yabashi	Team Leader, Beam Line Development Team, Experimental Facility Group, XFEL Project Head Office, RIKEN	Research related to development and application of high-resolution Fourier transform X-ray spectroscopy
Akira Yamaguchi	Associate Professor, Department of Science, College of Science, Ibaraki University	Research into self-assembly in nanofluidic systems
Sota Yamamoto	Associate Professor, Department of Engineering Science and Mechanics, College of Engineering, Shibaura Institute of Technology	Research into clarification and prevention of injury mechanism based on biomechanics
Michito Yoshizawa	Associate Professor, Chemical Resources Laboratory, Tokyo Institute of Technology	Research into self-assembled molecular capsules
Katsunori Wakabayashi	Independent Scientist, International Center for Materials Nanoarchitectonics, National Institute for Materials Science	Research into the nano-scale effect on electronic properties of graphene
Kenji Watanabe	Assistant Chief Researcher, Structures Technology Division, Railway Technical Research Institute	Research into the dynamic interaction between the backfill soil and the retaining wall during large earthquakes
Wataru Watanabe	Researcher, The Research Center for Photonics Research Institute, The National Institute of Advanced Industrial Science and Technology	Research into optical manipulation using multiphoton microscopy with Femtosecond laser pulses

Title correct as of 13 April 2010

(NISTEP Researchers Award)

NISTEP has selected approximately 10 researchers every year for the NISTEP Researchers Awards since FY 2005. In FY 2010, NISTEP selected the researchers listed below who achieved significant results related to S&T in the past several years referring to the investigation and research activities by NISTEP and the opinions of its expert network (approximately 2,000 experts), and announced their names in December 2010. (Table 2-4-2)

● Table 2-4-2/NISTEP Researchers Award Recipients

Category	Name	Affiliation	Reason for the award [literal translation]
Research	Hiroyuki Mano	Professor, Division of Functional Genomics, Center for Molecular Medicine, Jichi Medical University; Project Professor, Genome Medical Science Laboratory, Graduate School of Medicine, The University of Tokyo	Discovery of causative genes for lung cancer and pioneering R&D into molecular targeted therapeutics
	Yukihiro Matsumoto	Chairman, Ruby Association LLC; Fellow, Network Applied Communication Laboratory; Fellow, Rakuten Institute of Technology, Rakuten, Inc.	Contribution to the development and standardization of Ruby programming language
	Katsuhiko Ariga	Principal Investigator, International Center for Materials Nanoarchitectonics, National Institute for Materials Science	Research into supramolecular functional materials which has attracted world-wide attention
	Osamu Takai	Director, Ecotopia Science Institute, Nagoya University; Professor, Materials Science and Engineering Course, Department of Materials, Physics and Energy Engineering, Graduate School of Engineering, Nagoya University	Contribution to reduce the environmental load through development of environment-friendly nanomaterials by biomimetic processing
Project	Osamu Mori	Leader, IKAROS Demonstration Team, Japan Aerospace Exploration Agency	R&D and successful test launch of the IKAROS space yacht
	Rikio Yokota	Visiting Scientist, IKAROS Project, Japan Aerospace Exploration Agency	
	Hiroataka Sawada	Small Solar Power Sail Deployment Mission, IKAROS Project, Japan Aerospace Exploration Agency	
Industry and Academia Collaboration	Kazuhide Sekiyama	President, Spiber Inc.	Student-launched venture company to achieve the practical realization of synthetic spider silk
	Junichi Sugahara	Corporate Adviser, Spiber Inc. (Currently completing Ph.D in the Graduate School of Media and Governance, Keio University)	
International Research Exchange	Kazuo Watanabe	Professor, Gene Research Center, Division of Bioindustrial Sciences, Graduate School of Life and Environmental Sciences, University of Tsukuba	Practical efforts for technological transfer taking biodiversity conservation in Africa and other areas into account
	Mikiko Kainuma	Group Leader, Monitoring of Global Warming Effects, Center for Global Environmental Research, National Institute for Environmental Studies	Analysis of global warming scenarios: Development of the Asian-Pacific Integrated Model
Promotion of Understanding	Shigeru Kondo	Amateur Researcher	Helping to promote interest in scientific research through work to calculate the value of π
	Keiko Kurata	Professor, Department of Library and Information Science, Faculty of Letters, Keio University	At the forefront of the Open Access Movement, raising awareness of need for an academic information infrastructure

Affiliation correct as of 17 December 2010



(The Imperial Prize, Japan Academy Prize and Duke of Edinburgh Prize)

The Imperial and Japan Academy Prizes are awarded to individuals who have achieved notable research landmarks or who have authored particularly outstanding academic papers or books. The Japan Academy Prize is awarded to up to nine individuals and the Imperial Prize is awarded in each of its two categories: humanities and natural sciences. The awardees of up to one individual in each category are selected from among recipients for that year's Japan Academy Prize. Among the past recipients, Hideki Yukawa (1940), Shinichiro Tomonaga (1948), Kenichi Fukui (1962), Leo Esaki (1965), Makoto Kobayashi (1985), Toshihide Masukawa (1985), Masatoshi Koshihara (1989), and Ryoji Noyori (1995) have all since become Nobel Laureates. At the suggestion of His Royal Highness Prince Philip, the Duke of Edinburgh Prize was adopted in 1987. It is awarded every two years to a Japanese scientist with outstanding academic research achievements in the area of wildlife protection and species preservation. The FY 2010 award ceremony was held on June 21, 2010 at the Japan Academy in the presence of Their Majesties the Emperor and Empress.

(Table 2-4-3)

● Table 2-4-3/ Imperial Prize, Japan Academy Prize, and Duke of Edinburgh Prize Recipients

Prize	Recipient name	Current institution and title	Research achievement for award
Imperial Prize / Japan Academy Prize	Akira Omote	Professor Emeritus, Hosei University	Historical Studies of the Noh Theatre
Japan Academy Prize	Shinya Yamanaka	Director, Center for iPS cell Research and Application, Kyoto University	The Generation of Induced Pluripotent Stem (iPS) Cells
	Kaoru Umehara	Director, Kurokawa Institute of Ancient Cultures; Professor Emeritus, Kyoto University	The Judicial System Under the Song Dynasty: 960–1279
	Osamu Saito	Leverhulme Visiting Professor, University of Cambridge, UK; Professor Emeritus, Hitotsubashi University	Economic Development in Comparative and Historical Perspective
	Tsuneyoshi Kuroiwa	Professor, The Department of Life Sciences, and Director, Research Information Center for Extremophile (RICE), Rikkyo University; Professor Emeritus, The University of Tokyo	Discovery of Fundamental Mechanisms for Division and Inheritance of Mitochondria and Chloroplasts
	Katsuhiko Sato	President, National Institute of Natural Science; Professor Emeritus, The University of Tokyo	Accelerating Expansion Model in the Early Universe
	Shinji Murai	Executive Director / Vice President, Nara Institute of Science and Technology; Professor Emeritus, Osaka University	Skeletal Formation and Modification of Organic Compounds via Transition Metal-Based Molecular Catalysts (joint research)
	Shunichi Murahashi	Professor, Okayama University of Science; Professor Emeritus, Osaka University	
	Hiroshi Orui	Professor, Yokohama College of Pharmacy; Professor Emeritus, Tohoku University	
	Takeshi Kitahara	Professor, Faculty of Pharmaceutical Science, Teikyo-Heisei University; Guest Professor, Kitasato University; Professor Emeritus, University of Tokyo	Invention and Application of Molecules with Novel Biological Functions (joint research)
	Keiji Tanaka	Acting Director, Tokyo Metropolitan Organization for Medical Research, The Tokyo Metropolitan Institute of Medical Science	Studies on Structure and Functions of Proteasomes (Protein-degrading Enzyme Complexes)
Duke of Edinburgh Prize	Moritaka Nishihira	Councilor, Ocean Exposition Commemorative Park Management Foundation; Professor Emeritus, Tohoku University; Professor Emeritus, Meio University	Research on Structuring and Conservation of Coral Reef Communities in Japan, Especially in Okinawa

Affiliated institution and title correct as of 21 June 2010

(JSPS PRIZE and the Japan Academy Prize)

The JSPS PRIZE was established by JSPS in FY 2004 to sustain the zeal for research of young researchers with rich creativity and superlative research skills in all academic fields, from humanities to natural sciences, while rewarding and offering them support in advancing their work at an early stage in their careers.

The Japan Academy aims to develop scientific research in Japan by commending young researchers so as to heighten their research ambitions and give impetus to future research. The Japan Academy Prize was set up in 2004 to single out recipients of the JSPS Prize who are particularly recognized to possess future potential. The award ceremony for FY 2010 was held on 3 March 2011 at the Japan Academy in the presence of Their Imperial Highnesses Prince and Princess Akishinomiya. (Table 2-4-4)

Table 2-4-4/ JSPS Prize and Japan Academy Prize recipients

Field	Recipient name	Current affiliated institution and title	Research achievement for award
Humanities and Social Sciences	Etsuko Katsumata	Assistant Professor, School of Theology, Doshisha University	An Analytic Study of Judaic Literature Based on Aramaic and Hebrew Texts
	Akira Takagishi	Associate Professor, Graduate School of Decision Science and Technology, Tokyo Institute of Technology	A Study of the Execution and Appreciation of Picture Handscrolls in the Muromachi Period
	Yasumasa Matsuda	Professor, Graduate School of Economics and Management, Tohoku University	Theory of Spatial Time Series Analysis and Its Application to Spatial Econometrics
	○Tadashi Mori	Associate Professor, Graduate Schools for Law and Politics, The University of Tokyo	Historical Development of the Right of Self-Defence in International Law
	○Yuriko Yamanaka	Associate Professor, National Museum of Ethnology, National Institutes for the Humanities	A Comparative Study of Alexander the Great's Images in the Medieval Middle East
Mathematics; Physical Sciences; Chemistry; Engineering Sciences	Osamu Iyama	Professor, Graduate School of Mathematics, Nagoya University	Representation Theory of Orders
	Takashi Oi	Professor, Graduate School of Engineering, Nagoya University	Developments of Asymmetric Syntheses with Chiral Ammonium and Chiral Tetraaminophosphonium Salts
	Takeaki Ozawa	Professor, Graduate School of Science, University of Tokyo	Reconstitution of Reporter Proteins by Using Dissection and Reconstruction of Fluorescent Proteins
	Tsuyoshi Kimura	Professor, Graduate School of Engineering Science, Osaka University	Development of Magnetolectric Materials and Phenomena
	○Eiji Saito	Professor, Institute for Materials Research, Tohoku University	Exploration of Physical Phenomena and Application Technology Based on S in Currents
	Yoichi Sato	Professor, Institute of Industrial Science, University of Tokyo	Pioneering Work in Image-Based Modeling for Digital Content Creation
	Taku Tsuchiya	Professor, Geodynamics Research Center, Ehime University	Theoretical and Computational Study on the Ultrahigh-Pressure Properties of Earth and Planetary Materials



Field	Recipient name	Current affiliated institution and title	Research achievement for award
Mathematics; Physical Sciences; Chemistry; Engineering Sciences	Kentaro Torisawa	Group Leader, Knowledge Creating Communication Research Center, National Institute of Information and Communications Technology	Automatic Construction of Large-Scale Knowledge Bases from the Web and Their Application to Web Search
	Tomoteru Fukumura	Associate Professor, Graduate School of Science, University of Tokyo	Invention of Magnetic Oxide Semiconductor
	Hiroyuki Fukuyama	Professor, Institute of Multidisciplinary Research for Advanced Materials, Tohoku University	Novel Materials Processing Based on Chemical Thermodynamics and Development of Thermophysical Property Measurements
	Heiji Watanabe	Professor, Graduate School of Engineering, Osaka University	Creation of Next-Generation Electronics Based on Semiconductor Surface and Interface Science
Biological Sciences; Agricultural Sciences; Medical, Dental, Pharmaceutical Sciences	Masahiro Ito	Professor, Faculty of Life Sciences, Toyo University	Properties of Bacterial Flagellar Motor Powered by Hybrid Stators
	Hiroki Ueda	Project Leader, Center for Developmental Biology, RIKEN	Understanding of Design Principles in Mammalian Circadian Clocks
	Takuya Kitaoka	Associate Professor, Faculty of Agriculture, Kyushu University	Functional Architectonics of Polysaccharides and Fiber Materials
	Tomohisa Kuzuyama	Associate Professor, Biotechnology Research Center, The University of Tokyo	Diversity in Microbial Terpenoid Biosynthetic Pathways
	Shu Takeda	Special Associate Professor, School of Medicine, Keio University	Neuronal Control of Bone Metabolism
	○Kenji Matsuura	Associate Professor, Graduate School of Environmental Science, Okayama University	Ecological Researches on Termite Social Systems and Their Applications to Termite Control
	Toshimasa Yamauchi	Lecturer, Graduate School of Medicine, University of Tokyo	Identification of Receptors for Fat-Derived Hormone Adiponectin and Clarification of Molecular Mechanisms for Their Anti-diabetic Actions Including Exercise-Mimicking Effects
	Sho Yamasaki	Professor, Medical Institute of Bioregulation, Kyushu University	Self and Non-Self Recognition through Immune Receptors
	Masao Watanabe	Professor, Graduate School of Life Sciences, Tohoku University	Identification of Gene loci Responsible for Self-Nonself Discrimination and Elucidation of Molecular Discrimination Mechanism in Cruciferae Self-Incompatibility

Affiliated institution and title correct as of 1 January 2011

○ denotes Japan Academy Prize recipients

(JSPS Ikushi Prize)

In November 2009, JSPS received an endowment from Emperor Akihito on the 20th year of his reign. Amidst a severe economic environment in Japanese society, His Majesty's desire was to encourage and support young scientists who are working diligently to advance their studies and research.

In deference to his wishes, JSPS established the Ikushi Prize program and placed it into operation in FY 2010. It functions to formally recognize outstanding doctoral students who can be expected to contribute to Japan's future scientific advancement, while seeking to fan their enthusiasm for education and research pursuits. Graced by the presence of Their Majesties the Emperor and Empress of Japan, the first Ikushi Prize award ceremony was held by JSPS at the Japan Academy on 1 February 2011. (Table 2-4-5)

● Table 2-4-5/ JSPS Ikushi Prize Recipients

Field	Name	Graduate school and research field	PhD research topic
Humanities and Social Sciences	Akira Ichikawa	Nagoya University (Graduate School of Letters) (Humanities)	An archaeological study on the societies of classic period of Mesoamerica and its formation processes
	Haruto Takagishi	Hokkaido University (Graduate School of Letters) (Human science systems)	The role of theory of mind in altruistic behavior
	Hiromasa Takemura	University of Tokyo (Graduate School of Arts and Sciences) (Regional science)	Psychophysical study for visual motion processing based on spatial and temporal interaction of visual signal
	Ai Nishida	Kobe City University of Foreign Studies (Graduate School of Foreign Language Studies) (Cultural exchange)	Old Tibetan divination manuscripts from Central Asia
	Noa Nishimoto	Kyoto University (Graduate School of Asian and African Area Studies) (African area studies)	A descriptive study of the Antandroy dialect of Malagasy
	Michiko Yoshie	University of Tokyo (Graduate School of Arts and Sciences) (Regional science)	Psychophysiological study of the effects of social-evaluative stress on motor performance in pianists
Mathematics; Physical Sciences; Chemistry; Engineering Sciences	Kenichi Uchida	Tohoku University (Graduate School of Science) (Physics)	Exploration of fundamental physics and application technology on thermo-spin effects
	Masaaki Kitajima	University of Tokyo (Graduate School of Engineering) (Urban engineering)	Molecular epidemiological analysis of pathogenic viruses in water environments and control risk of infection
	Makiko Sasada	University of Tokyo (Graduate School of Mathematical Sciences) (Mathematical science)	Hydrodynamic limits for systems of non-gradient type
	Masayoshi Nobukawa	Kyoto University (Graduate School of Science) (Physics and astronomy)	X-Ray study of the galactic center region with Suzaku
	Shunichi Yanagisawa	Nagoya University (Graduate School of Science) (Material science)	Arene-assembling reactions through direct C-H bond functionalization
Biological Sciences; Agricultural Sciences; Medical, Dental, Pharmaceutical Sciences	Naoki Ikenaga	Kyushu University (Graduate School of Medical Sciences) (Medical Science)	Development of the selective stromal-directed therapies targeting the specific pancreatic stellate cells enhancing the progression of pancreatic cancer
	Tomohisa Seki	Keio University (Graduate School of Medicine) (Internal Medicine)	Generation of induced pluripotent stem cells from human terminally differentiated circulating T cells
	Ryosuke Nakai	Hiroshima University (Graduate School of Biosphere Science) (Environmental control of circulatory system)	Phylogeographic analysis of microorganisms in the Arctic and Antarctic polar regions
	Masayuki Horie	Osaka University (Graduate School of Medicine) (Preventive and environmental medicine)	Endogenous non-retroviral RNA virus elements in mammalian genomes
	Yuya Yamagishi	University of Tokyo (Graduate School of Science) (Biochemistry)	Analysis of the function and the localization mechanism of the conserved protein Shugoshin
	Ayako Yoshida	University of Tokyo (Graduate School of Agricultural and Life Sciences) (Applied biotechnology)	Structural biology on amino acid kinases involved in amino acid biosynthesis

Graduate school and research field correct as of 1 May 2010