

## List of Fellows (Invitation Fellowship Short-term FY2014): Selected through 1st Open Recruitment

The following list includes the names of the selected fellows, their host researchers and research themes under the 1st recruitment of FY2014 JSPS Invitation Fellowship Program for Research in Japan. Under this recruitment, 367 applicants were received, among which 110 fellowships were awarded. Notification of the selection results will be made in writing through the head of the applying institution in the middle of January, 2014.

Fellow' name (Family/First/Middle)	Host Researcher	Host Institution	Research Theme
COOTER, Roger	SUZUKI Akihito	KEIO UNIVERSITY	A Comparative History of Bioethics
PAGANINI, Gianenrico	KUWABARA Naoki	University of Tsukuba	Hellenistic Philosophy in Modern Europe: Its Reception and Applications toward a New Thought System
SPARROW, Robert James	KODAMA Satoshi	Kyoto University	The ethics of the direct enhancement of welfare by biomedical means
LE BLANC, Guillaume	SAKAMOTO Takashi	Kyoto Pharmaceutical University	Epistemology, Ethics and Political Philosophy in the Contemporary French Thoughts
TIRVASSEN, Rada	NISHIYAMA Noriyuki	Kyoto University	Dynamisme of hegemonical languages in multilingual society
KAHL, Jochem Albert	SUTO Yoshiyuki	Nagoya University	Acculturation of local society in Hellenistic Egypt
MCKEAN, Margaret Anne	HAYASHI Masahide	Incorporated Administrative Agency Forestry and Forest Products Research Institute	The establishment of the methodology for large-N comparative analysis of forest commons
WOOLLEY, Helen Elizabeth	KINOSHITA Isami	Chiba University	A Study on Children's Play Environment in the Recovery Process after the Great East Japan Earthquake
ALMANI, Saleh Abdulrahman	NAKAMURA Satoru	Kobe University	Area Studies on Preventive Diplomacy in the Middle East with Emphasis on Saudi Arabia
TAMANAHA, Brian Z	NASU Kosuke	Kyoto University	The Rule of Law and Legal Theory in the Era of Globalization
ALEX, Robert	MATSUBARA Mitsuhiro	Chuo University	On the Current Debate about the Principle of Proportionality

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MAHMUD, Minhaj Uddin	SAWADA Yasuyuki	The University of Tokyo	Behavioral and Experimental Studies on Poverty in Bangladesh
MULDREW, James Craig	TAKAHASHI Motoyasu	National University Corporation Ehime University	Budget of Ie, family and household: a historical study for the rural regions in Japan and Europe
CHERNILO, Daniel Enrique	TADA Mitsuhiro	Kumamoto University	Construction of Social Theory in the Transitional Period from National-Society to Global-Society
ANSTIS, Stuart	SHIOIRI Satoshi	Tohoku University	Development of a psychophysical technique for investigating higher-order visual cognitive processes
LAENG, Bruno	OKUBO Machia	Senshu University	Cultural and evolutionary basis of facial trustworthiness
RACHLIN, Howard	SORAMA Michiko	Kobe Gakuin University	Clinical applications of delay and social discounting
MELKMAN, Avraham Aharon	AKUTSU Tatsuya	Kyoto University	Algorithms for Computational Biology: Analysis of Boolean Networks and Tree-like Structures
SABOUNGI, Marie-Louise	SUZUYA Kentaro	Japan Atomic Energy Agency	The Structure of Ultra-High Temperature Melts using Neutron Scattering with Levitation Method
WAKEFIELD, Max Douglas	TERAO Hiroaki	Hokkaido University	Panoptic Study of Hyperplane arrangements
KOLPAKOV, Aleksandr	MURAKAMI Jun	Waseda University	Volume formulas for hyperbolic tetrahedron and related polyhedra
HOUDAYER, Cyril	OZAWA Narutaka	Kyoto University	Ergodic theory of nonamenable groups and classification of von Neumann algebras

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LIANG, Xing	MATANO Hiroshi	The University of Tokyo	Spreading phenomena in parabolic and parabolic-like systems
KURTZ, Donald Wayne	SHIBAHASHI Hiromoto	The University of Tokyo	Search for invisible companions of binary pulsating stars and asteroseismology
RAEDLER, Karl-Heinz	YOKOI Nobumitsu	The University of Tokyo	Studies on dynamo theory and modeling incorporating global-flow inhomogeneity
MORETTI, Stefano	KANEMURA Shinya	University of TOYAMA	Charged Higgs Bosons as a probe of new physics
DMITRASINOVIC, Veljko	HOSAKA Atsushi	Osaka University	Chiral symmetry of baryons and resonances
LOUNIS, Brahim	MATSUDA Kazunari	Kyoto University	Spectroscopy of charge complexes in individual single walled carbon nanotubes
WZIETEK, Paul	MITO Takeshi	UNIVERSITY OF HYOGO	Exchange of the Latest Result and Advanced Experimental Technique on the Study of Organic Conductors
KORNYSHEV, Alexei	YOSHIKAWA Kenichi	Doshisha University	Cross-talk between higher-order structure and base-sequence in genome-sized DNA
HOLSAPPLE, Keith Alan	NAKAMURA Akiko	Kobe University	Experimental and theoretical study on collisional evolution of porous primitive bodies
BERNHARD, Joan Marlowe	NOMAKI Hidetaka	JAMSTEC	Cross-sectional analysis of biogeochemical interactions between porewater, forams, and microbes
FRUCHTMAN, Amnon	SHINOHARA Shunjiro	Tokyo University of Agriculture and Technology	High beta neutral-depleted helicon plasma equilibrium

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SKRBIC, Biljana	KADOKAMI Kiwao	The University of Kitakyushu	Study on organic micro-pollutants in the environment in Serbia by a comprehensive analytical method
UDDIN, Khabir Md.	TANAKA Shunitz	Hokkaido University	Desalination and decontamination of water, soil and sludge by electrochemical methods
SWAMIDOSS, Abraham John	SAGARA Takamasa	NAGASAKI UNIVERSITY	Fabrication of conducting polymer-gold nanoparticle composite film for electroanalytical biosensing
VINU, Ajayan	ARIGA Katsuhiko	National Institute for Materials Science	Functional Nanostructured Materials for Energy Storage Applications
DANIEL, Chantal	TAKETSUGU Tetsuya	Hokkaido University	Ultrafast intersystem crossings in transition metal complexes: a quantum chemical study
TUCKERMAN, Mark Edward	SHIGA Motoyuki	Japan Atomic Energy Agency	Ab initio simulations of quantum proton transport processes in the condensed phase
PIERS, Warren Edward	YAMAGUCHI Shigehiro	Nagoya University	Development of Functional Organoboron Compounds
WENTRUP, Curt	ABE Manabu	Hiroshima University	Mechanistic Studies on Reactive Intermediates Using Low-temperature Matrix Isolation Technique
RAWAL, Viresh H.	YAMAMOTO Hisashi	Chubu University	Bronsted acid catalyst for asymmetric synthesis
ZHOU, Hongcai Joe	XU Qiang	National Institute of Advanced Industrial Science and Technology	Study of functional mesoporous metal-organic frameworks
MUKHERJEE, Partha Sarathi	KITAGAWA Hiroshi	Kyoto University	Creation of superprotonic conductor using nanospace

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HOLLAMBY, Martin James	NAKANISHI Takashi	National Institute for Materials Science	Directed Self-Assembly of $\pi$ -Conjugated Amorphous Molecules for Optoelectronic Applications
COZZI, Pier Giorgio	TERADA Masahiro	Tohoku University	Development of New, Enantioselective Variant of Organocatalytic Reactions
ROVIS, Tomislav	MURAKAMI Masahiro	Kyoto University	Rapid Asymmetric Synthesis of Complex Compounds by Transition-metal Catalyst and Organocatalyst
SEIDEL, Daniel	AKIYAMA Takahiko	Gakushuin University	Asymmetric Catalysis and C-H Functionalization
HOFMANN, Klaus-Peter	IMAMOTO Yasushi	Kyoto University	Activation mechanism of G-protein coupled receptors
RAMAMURTHY, Vaidhyanathan	INOUE Haruo	Tokyo Metropolitan University	Creation of Supramolecular Organic/Inorganic Hybrid compounds for Artificial Photosynthesis
NAZAROV, Wigen	NAGAI Keiji	Tokyo Institute of Technology	Synthesis and Characterization of monolithic organic polymer aerogel
SHI, Yiyu	SATO Takashi	Kyoto University	Sensor-enabled runtime reconfigurable architecture for noise-induced failure resilience
TRIVEDI, Kishor Shridharbhai	DOHI Tadashi	Hiroshima University	Software Fault Tolerance: Software Faults, Failures and Their Mitigations
CHADWICK, David Walter	HIRANO Manabu	Toyota National College of Technology	Authorisation and Trust in Cloud Systems
ZHI, Zheng-Liang	TAMIYA Eiichi	Osaka University	Microfluidic systems as an in vitro model for studying targeted delivery of stem cell therapies

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CARTER, Clive Barrington	SAITO Mitsuhiro	Tohoku University	The Study of Defects and Interfaces in Ceramic Mateterials
NANDA, Karuna Kar	NAGAO Tadaaki	National Institute for Materials Science	Nano-Oxide pn-junction for the Highly-Efficient Photoelectric Conversion
CRACIUN, Valentin	YAMAMOTO Tetsuya	KOCHI UNIVERSITY OF TECHNOLOGY	Development of new materials and low-tempeature film-growth processes for transparent electronics
ALAM, Shaiful	YAMASHITA Shinji	The University of Tokyo	Mid-IR, high-power and short-pulse fiber laser system using carbon nanotube and/or graphene
LIAO, Shijun	LIU Hao	Chiba University	Multi-scale Computational Fluid Dynamic Approach on Biological Turbulent Flows
ETHIRAJAN, Rathakrishnan	IIO Shouichiro	Shinshu University	Research on a limit for jet control
KORNEV, Nikolai Vladimirovich	UCHIYAMA Tomomi	Nagoya University	Development and validation of an advanced hybrid vortex method for multiphase flow simulations
MITRA, Sushanta	TAKATA Yasuyuki	Kyushu University	Study on Micro/Nanoscale Heat and Mass Transport Phenomena for Efficient Energy Utilization
KHRAMTSOV, Valery V	HIRATA Hiroshi	Hokkaido University	Electron spin resonance imaging for pH in tumor tissue
AU, Siu-Kui	YOSHIDA Ikumasa	Tokyo City University	Bayesian modal identification for deteriorated structures
ASADI, Afshin	KAWASAKI Satoru	Hokkaido University	Electro-biogrouting stabilization of soft soil

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BLUMENFELD, Raphael	MATSUSHIMA Takashi	University of Tsukuba	Structural characterization of complex granular matter and its application into geo-engineering
MCDANIELS, Timothy Lee	FUJIMI Toshio	Kumamoto University	Disaster Prevention and Mitigation Policies Based on Behavioral Economics
BOLTON, James Robert	OGUMA Kumiko	The University of Tokyo	Application of ultraviolet light-emitting-diodes to the inactivation of microorganisms in water
SHI, Gang	NAKASHIMA Masayoshi	Kyoto University	Advancement of Seismic Performance of Steel Structures Using Ultra High-Strength Steel
DELAINE, Janet	HORI Yoshiki	Kyushu University	Ancient Roman Housing and Urbanization
GROUVERMAN, Alexei	FUNAKUBO Hiroshi	Tokyo Institute of Technology	Development of Ultra Thin Ferroelectric Films for Novel Memory Devices
BLANCHARD, Juliette	TAKAHASHI Toshikazu	National Institute of Advanced Industrial Science and Technology	Observation and Utilization of Weak Acidic Points on Catalyst Surface
TOUBER, Emile	KAWAI Soshi	The Institute of Space and Astronautical Science, Japan Aerospace Exploration Agency	Predictive model of low-frequency motion in shock/boundary layer interaction at high Reynolds number
MULLER, Sylviane	SHIGERI Yasushi	National Institute of Advanced Industrial Science and Technology	Peptidic therapeutic agents: development and clarifying the issues
ISHIMA, Rieko	KATOH Etsuko	National Institute of Agrobiological Sciences	Viral protein dynamics probed by magnetic resonance relaxation
SAKMAR, Thomas P.	YAMASHITA Takahiro	Kyoto University	Analysis of structure and function relationship of G protein-coupled receptors

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BAMBERG, Ernst Karl	DEMURA Makoto	Hokkaido University	Study on molecular mechanisms of microbial rhodopsins and their application in neurobiology
BASTMEYER, Martin	TANAKA Motomu	Kyoto University	Molecular Mechanism of Neural Development by Combination of Smart Materials and Advanced Robotics
HE, Kai	SHINOHARA Akio	University of Miyazaki	Molecular phylogeography of multiple taxon sampling for understanding the species richness
LOPEZ-VAAMONDE, Carlos	OHSIMA Issei	Kyoto Prefectural University	Metabarcoding of leafminers and their symbionts: tapping into hidden host manipulation by herbivores
GAVRILETS, Sergey	KAWATA Masakado	Tohoku University	Evolutionary mechanisms of adaptive radiation: theory and empirical test
HSIEH, Chih-Hao	KONDOH Michio	Ryukoku University	Detection of species interactions using time series data: a modeling-based approach
PADRE, Agnes Tirol	CHENG Weiguo	The National University Corporation Yamagata University	Global warming affects soil C in long-term experimental rice paddies in temperate and tropical zones
TENHUNEN, John Douglas	MURAOKA Hiroyuki	Gifu University	Climate and biodiversity induced modifications in forest ecosystem function
PUMPANEN, Jukka Sakari	OHASHI Mizue	UNIVERSITY OF HYOGO	Fate of <sup>137</sup> Cs in Finnish and Japanese forests following Chernobyl and Fukushima nuclear accidents
SULTANA, Mahfuza Sharifa	YOSHIDA Satoshi	National Institute of Radiological Sciences	Transfer of Radionuclides from Soil to Biota and its Environmental Risk
KATAM, Ramesh	SAKATA Katsumi	Maebashi Institute of Technology	Analysis of abiotic stress response mechanisms of farm crops based on a self-organized network model



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ANDREO, Carlos Santiago	TANIGUCHI Mitsutaka	Nagoya University	Collaborative study on physiological role of the aggregative movement of C4 mesophyll chloroplasts
OVERHOLT, William Allan	TAKASU Keiji	Kyushu University	Biological control of weeds: current situation and issues
SCHONHEIT, Peter	ATOMI Haruyuki	Kyoto University	Identification of novel enzymes and metabolic pathways in extremophiles
FONTES, Carlos Mendes Godinho De Andrade	KANEKO Satoshi	National Agriculture and Food Research Organization	Novel kind of oligosaccharide production by using arabinoxylan specific xylanase
LAWLEY, Blair	WATANABE Jun	National Agriculture and Food Research Organization	Clarification of ethnic specificity in intestinal microflora and effects on host immune system
HELMISAARI, Heljae-Sisko Marketta	KOIKE Takayoshi	Hokkaido University	Sustainable bio-energy use of forests as affected by nutrient cycling under changing environment
OSTONEN-MARTIN, Ivika	HIRANO Yasuhiro	Nagoya University	Belowground adaptation strategies of tree roots along environmental gradients in forests
LI, Chunyang	HAN Qingmin	Incorporated Administrative Agency Forestry and Forest Products Research Institute	Variations in resource allocation pattern in forest trees in response to environmental change
BIENVENIDO BARCENA, Jose Fernando	NANSEKI Teruaki	Kyushu University	International comparative study on application of the ICT and knowledge management in agriculture
HUBBARD, Maria Carmen	ODAGIRI Tokumi	MEIJI UNIVERSITY	New Trends in EU Policies for Food, Agriculture and Rural Areas
ROSE, Michael Terence	ASO Hisashi	Tohoku University	Expression mechanism of cyclophilin A in bovine mammalian epithelial cells at mastitis

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PETTIS, Jeffery Stuart	KIMURA Kiyoshi	National Agriculture and Food Research Organization	Towards understanding of the role of pesticides in honey bee health
CORNER, Robert Jonathan	HASHIZUME Masahiro	NAGASAKI UNIVERSITY	Spatiotemporal techniques for climate change dynamics of tropical vector-borne diseases
BOHLIN, Lars	KONNO Katsuhiko	University of TOYAMA	Chemical and bioactive characterization of bunodosines, novel analgesic marine natural products
LAKSHMAN, Mahesh Kumar	NAGATSUGI Fumi	Tohoku University	Development of new strategies for the synthesis of the nucleoside analogs
EL SAYED ABOU-DERAE, Ibrahim El Tantawy	NAKAGAWA Hidehiko	NAGOYA CITY UNIVERSITY	Development of novel anticancer drugs based on natural products by diversity-oriented synthesis
KANGA, Uma	SHIINA Takashi	Tokai University	Disease and transplantation studies using novel next generation sequencing based HLA typing method
SARKER, Mahfuzur Rahman	MIYAKE Masami	Osaka Prefecture University	Studies on the mechanism of how spore-forming pathogenic bacteria respond to their host environments
GIAM, Chou-Zen	MATSUOKA Masao	Kyoto University	Cooperative and antagonistic functions of Tax and HBZ on HTLV-1 replication
SUZUKI, Kenji	TANAKA Rie	Kanazawa University	Development of visual stethoscope for emergency and disaster medicine
QIAN, Shiguang	RII Ko	National Research Institute for Child Health and Development	Establishment method of iPS-derived MDSC and study of the mechanism for immune tolerance
TREMBLAY, Marie-Eve	NAKANISHI Hiroshi	Kyushu University	Functional and structural studies on microglial processes that contribute to chronic inflammation