

## List of Fellows Selected through Open Recruitment in Japan

Humanities

Fellow			Nationality	Host Researcher	Host Institution	Research Theme
Family Name	First Name	Middle Name				
SULEMANA	Abdul-Razak		GHANA	Ken HIRAIWA	Meiji Gakuin University	The Syntax of Verbs and Nouns in Buli and its Implications for Linguistic Theory
YE	Sheng		CHINA	Akinori NAKASUNA	Kyoto University	A Study of Food Supply Security for the Shengjing Eight Banner Garrisoned in Middle Kangxi Period
LEE	Hui-Ping		TAIWAN	Yukio UEMURA	Tokyo University of the Arts	East Asian Transnational Musical Links: Case Studies on Japan-Taiwan Post-War Exchanges
LU	Youtao		CHINA	Yukie NAGAI	The University of Tokyo	Predictive coding in children's context-based learning of homophones
KADOCHNIKOV	Iakov		RUSSIA FEDERATION	Daisuke SHIBATA	University of Tsukuba	Memory and Legacy of Sargonic Kings in Ancient Mesopotamia: Textual Sources
KUMAR	Tusharkanti		INDIA	Izuru SAIZEN	Kyoto University	Impact of artificial glaciers on socio-ecological resilience of high mountain communities in India
BORDESSOULLES	Muriel		FRANCE	Yasuharu HOSHINO	National Institutes for Cultural Heritage, Nara National Research Institute for Cultural Properties	Development of analysis technique for short dendrochronological series adapted to Japanese wood
BEKTURSUNOV	Mirlan		KYRGYZSTAN	Chika OBIYA	Kyoto University	Rethinking the Sovietness in Central Asia: Continuation and Transformation of Traditional Norms

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Social sciences

Fellow			Nationality	Host Researcher	Host Institution	Research Theme
Family Name	First Name	Middle Name				
WANG	Yi-Jye	Christy	TAIWAN	Koji YAMAMOTO	The University of Tokyo	Godly Interest: Providence and Hypocrisy in the English Empire, 1600-1730
SALDARINI	Francesco		ITALY	Hiromitsu MIYATA	Waseda University	Investigation of therapeutic mechanisms of mindfulness based on Monitor and Acceptance Theory
XIN	Zonghao		CHINA	Kentaro MIYAMOTO	RIKEN	Coordination between metacognition and action in macaque obsessive compulsive disorder model
SANGATI	Ekaterina		POLAND	Wataru TOYOKAWA	RIKEN	Dynamics of emergent collective cognition
CORDOBA ARROYO	Esteban		COSTA RICA	Tsuyoshi KITAMURA	Osaka University	Qualitative and Quantitative Approaches to Visual Media Represented the Asia-Pacific War
LEE	Sangyun		KOREA (REP. OF KOREA)	Masako WAKUI	Kyoto University	Protecting Competitors from Undue Exclusion: Beyond the 'Equally Efficient Competitor' Principle

**List of Fellows Selected through Open Recruitment in Japan**

Mathematical and physical sciences

Fellow			Nationality	Host Researcher	Host Institution	Research Theme
Family Name	First Name	Middle Name				
AI	Sanxi		CHINA	Takeshi AKUHARA	The University of Tokyo	Small-scale mantle convection induced by tectonic inversion of the Sea of Japan: A new hypothesis
HACQUARD	Olympio		FRANCE	Yasuaki HIRAOKA	Kyoto University	Topological embeddings of multi-way chromatin interactions: understanding the structure of DNA
LIU	Li		CHINA	Yuichiro UENO	Tokyo Institute of Technology	The lost sulfur reservoir: Multiple sulfur isotope analysis of Archean granitoids
PEREZ VALDES	Victor		SPAIN	Toshihisa KUBO	Ryukoku University	Construction and classification of symmetry breaking operators
FANG	Qiliang		CHINA	Takashi MORIYA	National Institutes of Natural Sciences	Final moments of massive stars revealed through early discovery and late spectroscopy of supernovae
CRISTOFOLI	Andrea		ITALY	Katsuki AOKI	Kyoto University	Gravitational Waves and Scattering Amplitudes
CHENG	Yu		CHINA	Kei TANAKA	Tokyo Institute of Technology	Revealing Low-metallicity Star Formation through Multi-wavelength Observations
RAMADHAN	Ravidho		INDONESIA	Hiroyuki HASHIGUCHI	Kyoto University	Improvement of DSD accuracy with GPM DPR by simultaneous observations with atmospheric radars
ALI	Haytham	Ashraf Abdelaal	EGYPT	Hiroyuki KUDO	University of Tsukuba	Ultra Sparse-View Electron Tomography by a Novel Image Reconstruction Method
PRIVAULT	Gael		FRANCE	Masaki HADA	University of Tsukuba	Direct observation of structural phase transition driven by non-linear phononics
HU	Haojie		CHINA	Ken OHSUGA	University of Tsukuba	Global evolution of black holes at cosmic dawn via simulations: feeding, accretion, and feedback
MANDAL	Sanjay		INDIA	Kazuharu BAMBA	Fukushima University	Theoretical study and observational constraints on cosmology beyond the standard cosmological model

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Mathematical and physical sciences

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Family Name	First Name	Middle Name				
ZHONG	Yigui		CHINA	Kozo OKAZAKI	The University of Tokyo	Studying and manipulating the chiral superconductivity and charge density wave in quantum materials
CHIARINI	Gabriella		ITALY	Yoichi ASO	National Institutes of Natural Sciences	Enhancing the sensitivity of GW detectors by adaptive mode matching with electro-optical lenses
JAMES	Shania		INDIA	Masayuki IKEDA	The University of Tokyo	Comparative study of the end-Cretaceous to Pleistocene bolide impact events.
BURMESTER	Annika		GERMANY	Hidekazu FURUSHO	Nagoya University	Multiple zeta values, multiple q-zeta values and multiple Eisenstein series
TAGHIZADEH BAJGIRANI	Kianoosh		NETHERLANDS	Kuniyasu SAITOH	Kyoto Sangyo University	Multiscale modeling of geohazards - theoretical and numerical understanding of granular multiphases

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Chemistry

Fellow			Nationality	Host Researcher	Host Institution	Research Theme
Family Name	First Name	Middle Name				
HERRON	Alastair	Neale	IRELAND	Hiroshi NAKA	Kyoto University	Design and Synthetic Applications of Deuterium-Labelled Molecular Catalysts
ZATSEPIN	Pavel		CANADA	Makoto YAMASHITA	Nagoya University	Exploration of C-H alumination using base-metal-aluminum complexes as a catalyst
CHEN	Fuqiang		CHINA	Susumu KITAGAWA	Kyoto University	Thermodynamic-Kinetic Synergistic Separation of O <sub>2</sub> /N <sub>2</sub> Porous Coordination Polymers
LEE	Kang Ju		KOREA (REP. OF KOREA)	Hiroaki SUGA	The University of Tokyo	Discovery of cell-permeable and bioactive macrocycles using pseudo-natural product libraries
ZHANG	Wenyang		CHINA	Yoshiyuki SUGAHARA	Waseda University	Design of potassium-ion battery with a high cyclability using a sodium-containing gradient SEI
DAS	Sinjan		INDIA	Naoki SUGIMOTO	KONAN UNIVERSITY	Quantitative analysis and regulation of the tetraplexes of nucleic acids controlling cell cycle
DAS	Sabuj	Kanti	INDIA	Yuichi NEGISHI	Tokyo University of Science	Design and Synthesis of Covalent Organic Frameworks for Photo/electrochemical CO <sub>2</sub> Reduction
LI	Wenlang		CHINA	Takuzo AIDA	RIKEN	Stimuli-responsive phosphorescence in supramolecular architectures
CHEN	Chien-Yu		TAIWAN	Atsushi WAKAMIYA	Kyoto University	Efficient and Stable Tin Perovskite Solar Cells Realized by Composition and Interfacial Engineering
MANI	Preeyanghaa		INDIA	Kentarou TERAMURA	Kyoto University	Unleashing Green Energy: Photocatalytic CO <sub>2</sub> Conversion using Alloy Nanoparticle-Modified g-C <sub>3</sub> N <sub>4</sub>
KENKERA RAYAPPA	Naveen		INDIA	Takuji HATAKEYAMA	Kyoto University	Development of narrowband TADF emitters by using multiple resonance effect

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Family Name	First Name	Middle Name				
XIA	Yan		CHINA	Takuji ISHIKAWA	Tohoku University	Elucidation of the accumulation process of harmful red tide algae in turbulent flow
LUO	Cheng		CHINA	Yusuke KAJIHARA	The University of Tokyo	Self-assembly induced tough physical bonding of hydrogels to metals
DELEAU	Clement	Michel	FRANCE	Yuichiro KATO	RIKEN	Photonic integrated circuits with on-chip carbon nanotube single photon sources
SKIADOPOULOS	Andronikos		GREECE	Taichiro OKAZAKI	Hokkaido University	Resilience-based seismic design of chevron-braced steel moment resisting frames
HAN	Minsu		KOREA (REP. OF KOREA)	Yusuke YAMAUCHI	Nagoya University	Metal-Embedded Porous Carbon Catalysts for Enhanced Hydrogen Generation via Water Electrolysis
SUTRISNO	Linawati		INDONESIA	Katsuhiko ARIGA	National Institute for Materials Science	Visualizing Spatial Heterogeneities of RNA by Extended Pyrazinacene in Living Cells
MA	Qun		CHINA	Yan XU	Osaka Metropolitan University	Pioneering Measurement and Regulation of Single-Molecule Reactions in Nanofluidic Confinement
ZHANG	Yunlei		CHINA	Yasuhiro ISHIDA	RIKEN	Asymmetric friction enabled by mechanically polar hydrogel
LI	Mingxin		CHINA	Yuka KIKUCHI	The University of Tokyo	Optimization of maintenance strategies for offshore wind farms by using digital twin technology
SUN	Jie		CHINA	Junichiro SHIOMI	The University of Tokyo	Phonon engineering of 2D materials by advanced interfacial structure control
KARIMI HABIL	Mojtaba		IRAN	Hiroshi SUGIMOTO	Kobe University	Optical enantioseparation utilizing asymmetric waveguide based on dielectric nanosphere chains
LIU	Yiming		CHINA	Takao SOMEYA	The University of Tokyo	Olfactory Virtual Reality Enabled by Wireless Skin-interfaced Electronics

## List of Fellows Selected through Open Recruitment in Japan

Engineering sciences

Fellow			Nationality	Host Researcher	Host Institution	Research Theme
Family Name	First Name	Middle Name				
DANG	Phuc Toan		VIET NAM	Hiroki WAKATSUCHI	Nagoya Institute of Technology	Electromagnetics materials to break wireless transfer limits of high-frequency signals
ELAMARAN	Durgadevi		INDIA	Daisuke KIRIYA	The University of Tokyo	Neuromorphic Engineering with Enhance Memristor Utilizing Suspended Monolayer MoS2
NOOR MOHAMED	Mohamed Nihaaj		SRI LANKA	Takashi KIYOTA	The University of Tokyo	Mechanism of liquefaction mitigation and countermeasure impact by new shallow ground improvements
WU	Xin		CHINA	Masahiro NOMURA	The University of Tokyo	Structural design-driven novel phonon thermal transport in two-dimensional structures and devices
YANG	Xiurong		CHINA	Atsushi SAINOKI	Kumamoto University	Development of rock mass stabilization technology in deep underground with CO2 mineralization method
VAITHIYANATHAN	Ponnilavan		INDIA	Masakazu KAWASHITA	Tokyo Medical and Dental University	Metal-doped mesoporous glass microparticles with antibacterial activity and MRI imaging capability
LIU	Wei		CHINA	Koichi KUSUNOKI	The University of Tokyo	Seismic control of nonlinear long-period structures based on novel rate-independent damping systems.
ZHAO	Junjie		CHINA	Madoka ONO	Tohoku University	Material Design and Development of Glass-Ceramics with Selected-Chirality
GAO	Qiang		CHINA	Naoji MATSUHISA	The University of Tokyo	Ultra-stretchable transistors using strain-isolating elastomers with interlocking architecture
NGUYEN	Binh	Quang	VIET NAM	Sameh KANTOUSH	Kyoto University	Nature-based climate-human resilient measures for flood risk reduction and food security
PHUNG	Luc	Duc	VIET NAM	Toru WATANABE	Yamagata University	Impacts of Metal Nanoparticles in Treated Wastewater on Paddy Fields and Greenhouse Gas Emissions
LEE	Chungil		KOREA (REP. OF KOREA)	Taku NONOMURA	Tohoku University	Development of multiscale 3D superresolution measurement for clarification and control of jet noise

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Engineering sciences

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Family Name	First Name	Middle Name				
AYDOGDU	Hasan	Huseyin	TURKEY	Masaki MAEDA	Tohoku University	Sophistication of Pre and Post Earthquake Action for Seismic Damage of Existing Buildings in Turkey
ROY	Shilaj		INDIA	Naoto SHIRAHATA	National Institute for Materials Science	Synthesis of Leadfree Perovskite Nanocrystals for Solution-processed NIR Optoelectronic Applications
VARANASI	Rama Srinivas		INDIA	Motomichi KOYAMA	Tohoku University	Atomic-scale engineering of grain boundaries to inhibit hydrogen induced brittle fracture in metals
CHEN	Wan-Hsin		TAIWAN	Satoru NAKATSUJI	The University of Tokyo	Experimental study on quantum coherent transport in antiferromagnetic tunnel junctions
MANISHA			INDIA	Takaya OGAWA	Kyoto University	Non-platinum anode in fuel cell enabled by less humidity based on the packed-acid mechanism
PAL	Sushanta	Kumar	INDIA	Takashige OMATSU	Chiba University	Polarization singularity based confocal microscopy for resolution enhancement
HAWWASH	Ahmed	Antar Mahmoud	EGYPT	Shinsuke MORI	Tokyo Institute of Technology	Thermal management of lithium-ion battery using Phase Change Materials with thermal enhancer
MOHD SAFARI	Muhammad Aslam		MALAYSIA	Toshiyuki NAKAEGAWA	Meteorological Research Institute(MRI), Japan Meteorological Agency	Statistical modeling and risk assessment of extreme wind events in Japan: An Extreme Value Theory



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ROSSI	Zane	Marius	U.S.A.	Mio MURAO	The University of Tokyo	Quantum algorithm design from functional programming and category-theoretic technique
BROOKS	James	Gerard	CANADA	Shinya YAMAMOTO	Kyoto University	Integrating theoretical and empirical comparative approaches to the evolution of group cooperation
OOI	Chun Wei		MALAYSIA	Yuta ITOH	The University of Tokyo	Occlusion-Capable See-Through AR and Development via Fast Photochromism and Bayer Holographic Optics
LIAN	Zhuotao		CHINA	Kouichi SAKURAI	Kyushu University	Exploring efficient and privacy-preserving Federated learning for IoT systems
POON	Charissa	Ting Amanda	CANADA	Henrik SKIBBE	RIKEN	Automated pipeline and platform to evaluate reproducibility of imaging analyses in Alzheimers

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Biological sciences

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Family Name	First Name	Middle Name				
WILSON	Sam	Ronald	UNITED KINGDOM	Jun MINAGAWA	National Institutes of Natural Sciences	Mechanisms of algal light harvesting
BERTHELIER	Jeremy	Tristan	FRANCE	Hidetoshi SAZE	Okinawa Institute of Science and Technology Graduate University	Epitranscriptomic regulation of transposable elements in plants
YUAN	Li		CHINA	Haruhiko BITO	The University of Tokyo	Deciphering the immediate early gene Arc role in hippocampal circuit adaptation and memory formation
ABALDE LAGO	Samuel		SPAIN	Yasunori KANO	The University of Tokyo	Genomics of miniaturisation in gastropods
MUKHERJEE	Pradipta		INDIA	Yoshiaki YASUNO	University of Tsukuba	Comprehensive metabolic imaging of liver by computationally-augmented tomographic microscopy
HEO	Namjoo		KOREA (REP. OF KOREA)	Joel hamilton NITTA	Chiba University	Island syndrome in insular ferns: exception to the rule, or an overlooked case?

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ZHANG	Zhenlu		CHINA	Nobuhiro SUZUKI	Okayama University	Antiviral symptom mitigation pathway conserved in ascomycetes and plants
CHEN	Yipeng		CHINA	Masahisa WADA	Kyoto University	Preparation and Functional Development of Homogenous Cellulose-Inorganic Composite
XING	Baoshan		CHINA	Yu-you LI	Tohoku University	Research on a novel energy-saving decarbonized sewage treatment system
YANG	Yang		CHINA	Manabu FUJII	Tokyo Institute of Technology	Visible-light-assisted peroxymonosulfate activation by dual-atom catalysts for PFAS removal
ALBARRACIN	Leonardo	Miguel	ARGENTINA	Haruki KITAZAWA	Tohoku University	Induction of trained immunity in porcine alveolar macrophages by immunobiotic lactobacilli
KHEZRI	Maryam		IRAN	Kentaro YOSHIDA	Kyoto University	Identification of genes responsible for hybrid incompatibility in wheat using genome editing
BUI	Thi Bao Chau		VIET NAM	Mito KOKAWA	University of Tsukuba	Identification and characterization of novel emulsifying proteins from plant seeds
DJOTAN	Akotchiffor Kevin Geoffroy		BENIN	Yosuke MATSUDA	Mie University	A novel taxon-targeted gene expression profiling to advance ecology and biology of mycorrhizal fungi
YI	Yan		CHINA	Katsuya YANO	Nagoya University	Physiological mechanisms of accelerated senescence in plants grown under elevated carbon dioxide
NEHA			INDIA	Junya ONISHI	Japan International Research Center for Agricultural Sciences	Evaluation of the effects of changing temperature and rainfall on soil salinization
HE	Qing		CHINA	Taikan OKI	The University of Tokyo	Development of a coupled H08-MODFLOW model for a better understanding of human-water feedbacks
METWALLY	Samy	Gamal Al-Saied Mohamed	EGYPT	Yoko AIDA	The University of Tokyo	Establish of bovine leukemia virus stably infected human cell and genome-wide CRISPR/Cas9 screening
ADAK	Bapan		INDIA	Yoshikuni TERAMOTO	Kyoto University	Creating smart food wrapping paper coated with multilayer biopolymer nanocomposites

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ADU	Bright	Gyamfi	GHANA	Toru FUJIWARA	The University of Tokyo	Identification and analysis of genes from wild rice that activate nitrogen uptake systems
AURUM	Fawzan	Sigma	INDONESIA	Kohei NAKANO	Gifu University	Integration of Metabolomics and Multi-spectroscopic Approach for Coffee Authentication Technology
GANESH	Ravi		INDIA	Kazunori FUJISAWA	Kyoto University	High Performance Stability Analysis of Soil Structures for Flood and Earthquake
AMIN	Islam	Adelabdelhakim	EGYPT	Shunji TAKAHASHI	RIKEN	Unlocking the Secrets Behind DHLC Biosynthesis: A Groundbreaking Solution to Combat Malaria Spread
ANGGA	Made	Sandhyana	INDONESIA	Masaaki KITAJIMA	Hokkaido University	Development of magnetic nanoparticle-based biosensor for the detection of pathogens in wastewater
AGRAHARI	Raj	Kishan	INDIA	Takehiro KAMIYA	The University of Tokyo	Understanding of molecular mechanisms of foliar uptake of urea and its optimization
NGUYEN	Huong	Thu	VIET NAM	Taira HIDAKA	Kyoto University	Elucidate the influence mechanism of conductive material on the anaerobic dye wastewater treatment

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SEONG	Changhwan		KOREA (REP. OF KOREA)	Joji KUSUYAMA	Tokyo Medical and Dental University	Placentocaine-mediated pathogenesis of nonsyndromic cleft lip and palate
ZHANG	Wenhe		CHINA	Ikuro ABE	The University of Tokyo	Structure-function analysis of novel biosynthetic enzymes of medicinal natural products
ZHONG	Jingxiao		CHINA	Yo SHIBATA	Showa University	Mechanobiological Insights into Osteoarthritis: From ECM Mechanics to Therapeutic Potentials
XIE	Kun		CHINA	Taichi HARA	Waseda University	The mechanism of autophagy induction by D-Amino acid and its application in health control
SARDAR	Sanjib	Kumar	INDIA	Tomoyoshi NOZAKI	The University of Tokyo	Genomic and functional analyses of the underestimated pathogenicity of Entamoeba moshkovskii
ELFADIL AHMED ABBAS	Razan		SUDAN	Hideki UOSAKI	Jichi Medical University	Elucidation of disease mechanisms of mitochondrial cardiomyopathy.
GUYOT	Matthieu		FRANCE	Ko YAMANAKA	Juntendo University	Development of virtual and augmented reality training to improve athlete decision making
ISLAM	Md	Tanvir	BANGLADESH	Yoshiro SAITO	Tohoku University	Development of therapeutic drugs for dementia targeting selenoprotein P
RAHAMAN	Ajjur		INDIA	Masakatsu SHIBASAKI	Microbial Chemistry Research Foundation	Generation and application of boron radicals for the development of novel functional materials
CARRASCO	Magdeline	Elizabeth	DOMINICAN REPUBLIC	Reiko HANADA	Oita University	Unveiling overnutrition and liver disease mechanisms by fluorescent visualization of DAMPs signaling