

## List of Fellows (FY2021 Invitational Fellowships for Research in Japan (Long-term))

Humanities

The following list includes the names of the selected fellows, their host researchers and research themes under the recruitment of FY2021 JSPS Invitational Fellowships for Research in Japan (Long-term). Under this recruitment, 160 applicants were received, among which 60 fellowships were awarded.

Fellow' name (Family/First/Middle)	Nationality	Host Researcher	Host Institution	Research Theme
LAU Chong-fuk	CHINA	Taiju OKOCHI	Kyoto University	Nothingness of Kantian-Hegelian Idealism with Kyoto Perspective
GUO Xiaotao	CHINA	Masayoshi JOKURA	Waseda University	A Study on the Production Technology of Roof Tiles between the Ancient Cities in Japan and China.
MUROYA Yasutaka	JAPAN	Motoi ONO	University of Tsukuba	Editing and publishing a Sanskrit manuscript of an 8th-century work of Logic in South Asia
AYNUR Hatice	TURKEY	Yoichi TAKAMATSU	Tokyo University of Foreign Studies	On the Collection of Turhan Valide Sultan(1627-83) Library in Ottoman Istanbul
BONIFACIO Glenda Lynna anne	CANADA	Itaru NAGASAKA	Hiroshima University	Migrants' experiences of the pandemic: A comparative study of Filipino migrants in Japan and Canada
CHAMBERT-LOIR Henri	FRANCE	Yumi SUGAHARA	Osaka University	Islam in the representation of wars between Southeast Asian kingdoms and the European armies
YU Chong	CHINA	Minoru YONEDA	The University of Tokyo	Expansion of Austronesian people and their subsistence in ancient South China and Northern Vietnam.

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Social sciences

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Fellow' name (Family/First/Middle)	Nationality	Host Researcher	Host Institution	Research Theme
ZHANG Shaojun	CHINA	Laixun ZHAO	Kobe University	Measures and Gains of Market Integration--from the Perspective of the Global Value Chain
HYMANS Jacques Edson	U.S.A.	Tomoko MATSUMOTO	Tokyo University of Science	Text analysis of hibakusha testimonials
NI LAR	MYANMAR	Hiroyuki TAGUCHI	SAITAMA UNIVERSITY	Evaluation of Myanmar's Trade and Investment and their COVID-19 Impact Analysis
YAM Kai chi	CHINA	Yukiko UCHIDA	Kyoto University	Examining employees's perceptions of robots at work: A cross-cultural perspective
LEE Kang	CANADA	Shoji ITAKURA	Doshisha University	Face and speech processing in infants
EWEJE Gabriel Remmy	NEW ZEALAND	Masahiro HOSODA	Ibaraki University	The social and environmental impact of covid-19 on Japan

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Mathematical and physical sciences

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Fellow' name (Family/First/Middle)	Nationality	Host Researcher	Host Institution	Research Theme
VESPA Christine	FRANCE	Nariya KAWAZUMI	The University of Tokyo	Stable cohomology of the automorphism group of a free group and related topics
CHANNELL James Essex trevelyan	U.S.A.	Hirokuni ODA	National Institute of Advanced Industrial Science and Technology	Unveiling causes and consequences of rapid geomagnetic field change during reversals and excursions
SAWICKI Marcin	CANADA	Kouji OHTA	Kyoto University	Tracing galaxy evolution with massive Subaru and CFHT surveys: mergers, reionization, and more
MANEA Vlad Constantin	ROMANIA	Shoichi YOSHIOKA	Kobe University	Seismicity distribution and seamounts and fracture zones subduction in Japan and Mexico
SAIF Farhan	PAKISTAN	Hiroki SAITOU	The University of Electro-Communications	Bose-Einstein condensates interacting with light

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Chemistry

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Fellow' name (Family/First/Middle)	Nationality	Host Researcher	Host Institution	Research Theme
CHANDRA Amalendu	INDIA	Shinji SAITO	National Institutes of Natural Sciences	Theoretical nonlinear vibrational spectroscopy of aqueous interfaces in mid-IR and THz regions
BORRELLI Raffaele	ITALY	Yoshitaka TANIMURA	Kyoto University	Modeling and analyzing proton-coupled electron transfer processes for solar energy production
HAYES Paul George	CANADA	Makoto YAMASHITA	Nagoya University	Reaction of late transition metal complexes bearing a NNN pincer ligand toward methane

## List of Fellows (FY2021 Invitational Fellowships for Research in Japan (Long-term))

Engineering sciences

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Fellow' name (Family/First/Middle)	Nationality	Host Researcher	Host Institution	Research Theme
BANDOSZ Teresa Jadwiga	U.S.A.	Katsumi KANEKO	Shinshu University	Super physico-chemical properties of sulfur confined in nanoscale carbon spaces
RODNEY David Edward	FRANCE	Yuichi IKUHARA	The University of Tokyo	Combining atomic-scale experiments and simulations to understand grain boundary motion in ceramics
PLUCKNETT Kevin Paul	CANADA	Naoya SHIBATA	The University of Tokyo	Interface structures and mechanical properties of advanced ceramic materials
GESLIN Pierre-antoine	FRANCE	Hidemi KATO	Tohoku University	Numerical and experimental investigation of the sluggish surface diffusion in high entropy alloys
JAGADISH Chennupati	AUSTRALIA	Yasuhiko ARAKAWA	The University of Tokyo	Collaborative research on basic technology on electrically-driven nanowire quantum dot lasers
MAK Wing cheung	SWEDEN	Junya TSUTSUMI	National Institute of Advanced Industrial Science and Technology	Printed 3D-microelectronic biosensor stickers for internet of things (IoT)
GOLTZ James Dennis	U.S.A.	Katsuya YAMORI	Kyoto University	Local Government Planning for Receipt of an Earthquake Advisory for the Nankai Trough Earthquake
MCGAUGHEY Alan James Hastings	CANADA	Junichiro SHIOMI	The University of Tokyo	Thermal transport analysis of disordered crystals
MOHAMED Aziz Awaad aziz	EGYPT	Yutaka MIURA	Tokyo Institute of Technology	Smart polyzwitterion-coated nanoparticles for tumor theranostics
PAPANICOLAOU Thanos A.n.	U.S.A.	Tatsuhiko UCHIDA	Hiroshima University	Role of kinetic sorting on sediment flux variations via process based sediment modeling framework
SINHA Sujeet Kumar	INDIA	Tomoko HIRAYAMA	Kyoto University	Nanotribology of Liquid Droplets Filled Polymers for Friction and Wear Reduction Applications

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Fellow' name (Family/First/Middle)	Nationality	Host Researcher	Host Institution	Research Theme
SUNNARDIANTO Gagus Ketut	INDONESIA	Koichi KUSAKABE	Osaka University	Theoretical investigation asserting hydrogen-storage functions by nanographene
BHATTACHARJEE Pinaki Prasad	INDIA	Nobuhiro TSUJI	Kyoto University	Engineering nanoscale heterogeneity for high entropy alloys with outstanding mechanical properties
CHENG Tonglei	CHINA	Yasutake OHISHI	Toyota Technological Institute	Highly coherent and broadband mid-infrared light generation using photonic crystal fibers

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Informatics

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Fellow' name (Family/First/Middle)	Nationality	Host Researcher	Host Institution	Research Theme
SONG Jiangning	AUSTRALIA	Tatsuya AKUTSU	Kyoto University	Next-generation scalable and interpretable computational methods for somatic mutations
ROY Sudip	INDIA	Shigeru YAMASHITA	Ritsumeikan University	Physical Design Automation with Dynamic Module Mapping for Error-Tolerant Microfluidic Biochips
SHI Peng	AUSTRALIA	Shuoyu WANG	Kochi University of Technology	Construction of the safety control theory for personal care robots

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Biological sciences

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SLANE Daniel	GERMANY	Sachihiro MATSUNAGA	The University of Tokyo	Cell-specific elucidation of chromatin dynamics underlying stress memory in the stomatal lineage
PHAM Thai Hong	VIET NAM	Kunio ARAYA	Kyushu University	Molecular Phylogeny of Vietnamese Insects with the reference on relationships to Ryukyu island
MOLINAS CABRERA Maria Marta	PARAGUAY	Takashi ABE	University of Tsukuba	Understanding brain activity related to dream emotions during REM sleep
MOHAMED Reham fathey Aly	EGYPT	Takahiro ASAMI	Shinshu University	Quantitative variation of chiral polarity and lineage evolution of situs inversus
DE MASSY Robert	FRANCE	Mitinori SAITOU	Kyoto University	Elucidation of the mechanism for homologous chromosome pairing during meiosis in vitro

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Agriculture/Environmental sciences

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ABDELGALEIL Samir Abdelazim mohamed	EGYPT	Yoshihito SHIONO	Yamagata University	Discovery of new constituents from endophytic fungi isolated from medicinal plants in Egypt
ABD MANAN Fazilah Binti	MALAYSIA	Nobutaka MITSUDA	National Institute of Advanced Industrial Science and Technology	Finding transcription factors for copper stress response towards efficient phytoremediation
HONG Hoang Thi kim	VIET NAM	Sakae AGARIE	Kyushu University	Elucidating the mechanism of halophylism in halophyte
KRISHNA MURTHY Panneerselvam	INDIA	Hiroyuki MORITA	University of Toyama	Discovering type III polyketide synthases in the biosynthesis of phenylphenalenone in banana
RAMASWAMY Babu rajendran	INDIA	Hideo OKAMURA	Kobe University	Environmental forensics and ecotoxicity of Non Phthalate Plasticizers in Japanese coastal waters.
ALI Abid	PAKISTAN	Tetsuya TANAKA	Kagoshima University	The Analysis of Role of Nutrition Metabolism and Sex Determination by Microbiome in Tick
PENG Changhui	CANADA	Naishen LIANG	National Institute for Environmental Studies	Forecasting impact of warming on soil CO <sub>2</sub> and CH <sub>4</sub> fluxes of Asian forests using model-data fusion
AUGE Gabriela	ARGENTINA	Toshiyuki IMAZUMI	National Agriculture and Food Research Organization	Effects of high temperature during grain filling on seed dormancy
RIANO David	SPAIN	Akira KATO	Chiba University	Large scale estimation for fuel moisture content of live vegetation
KOBER A. k. m. Humayun	BANGLADESH	Haruki KITAZAWA	Tohoku University	Development of next-generation immunobiotics for growing healthy livestock & humans
TRZCINSKI Antoine P.	BELGIUM	Koji HARADA	Kyoto University	Removal of PFASs in Water using a Combined Adsorption and Electrochemical Regeneration Technology

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FIGUEIREDO Joana Cordeiro	U.S.A.	Saki HARI	University of the Ryukyus	Can aged coral larvae be the key to recover reefs?

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Medicine dentistry and pharmacy

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TAN Mario Almoite	PHILIPPINES	Hayato ISHIKAWA	Kumamoto University	Screening of neuroprotective agents from the Philippine medicinal plants against Alzheimer's disease
RUSSELL Bruce Malcolm	AUSTRALIA	Osamu KANEKO	NAGASAKI UNIVERSITY	Elucidating the mechanism how zoonotic monkey malaria parasites adapt to grow in human erythrocytes
ACHUR Rajeshwara	INDIA	Richard CULLETON	Ehime University	Novel therapeutic approaches for pregnancy associated malaria (PAM)
NSOFOR Chijioke Adulberth	NIGERIA	Shinya WATANABE	Jichi Medical University	Analysis of beta-lactam resistance mechanisms using oxacillin-susceptible MRSA
RICCIOTTI Emanuela	ITALY	Shuh NARUMIYA	Kyoto University	Identification and search for biomarkers of EP2 and EP4-dependent immune evasion in human tumors