DST-JSPS Results 2024

Under the Indo-Japan Cooperative Science Programme (IJCSP)-2024, a Joint Call for Proposals was issued by the Department of Science and Technology (DST), Ministry of Science & Department of Science and Technology (DST), Ministry of Science & Department of India and Japan Society for the Promotion of Science (JSPS), Japan for inviting joint research projects and workshops carried out by Indian and Japanese researchers on the mutually agreed areas of i) Physical Sciences ii) Chemical Sciences iii) Life Sciences and Agriculture iv) Mathematics and Computational Science v) Astronomy and Earth Science vi) Materials and Engineering.

2. The last date for submitting the proposals 3rd September, 2024. A total of 245 joint research project proposals and 15 workshop proposals were received against the call. After judicious assessment based on scientific strength, technical aspects, project objectives and national priorities of both the countries, Department of Science and Technology (DST), India and Japan Society for the Promotion of Science (JSPS), Japan have jointly decided to support the following 3 Workshop proposals and 20 Research Project proposals. The India side PI will be emailed to submit security sensitivity clearance and bank details to process further for release of grant.

List of Selected Joint Research Workshops: -

| S.no. | TPN | Project Title | Indian PI/Institute | Japanese PI/Institute |
|-------|--------|---|---|---|
| | No. | | | |
| 1. | 115283 | Recent advances in spectroscopy and simulations of complex molecular systems: Structure, dynamics, and functions. | Prof. Amalendu Chandra, IIT Kanpur Nagar Uttar Pradesh 208016 | Prof. Tetsunari Kimura, Kobe University Japan |
| 2. | 115314 | A joint workshop on fundamentals and application of fine bubble technologies | Dr. Neelkanth Nirmalkar, IIT Ropar Punjab 140001 | Dr. Yoshikatsu Ueda, Kyoto University Japan |
| 3. | 114718 | Seminar cum workshop on Single-molecule imaging technologies for life science research | Dr. Gunjan Mehta, IIT Hyderabad Telangana 502285 | Prof. Masahiro Ueda, Osaka University Japan |

List of Selected Joint Research Projects: -

| S.no. | TPN | Project Title | Indian PI/Institute | Japanese PI/Institute |
|-------|--------|-------------------------------|------------------------------|-------------------------|
| | No. | - | | |
| 1. | 114712 | Design and Modelling of Self | Dr. K Govardhan, | Dr. Ichiro Suzuki, |
| | | Sustainable, Power Generating | VIT Vellore Tamil Nadu | Yokohama National |
| | | Johkasou System to Suit | 632014 | University Japan |
| | | Diverse Indian Environmental | | |
| | | and Operational | | |
| | | Conditions | | |
| 2. | 114799 | Development of 2D porphyrin | Prof. Nagaraja Mallaiah, | Prof. Hiroshi Kitagawa, |
| | | metal-organic frameworks | IIT Ropar Punjab 140001 | Kyoto University Japan |
| | | PMOFs for efficient hydrogen | | |
| | | generation | | |
| 3. | 115118 | Exploring the sculptors of | Dr. Somlata, | Prof. Tomoyoshi Nozaki, |
| | | plasma membrane in | Jamia Milia Islamia, Central | The University of Tokyo |
| | | Entamoeba histolytica BAR | University Jamia Nagar New | Japan |
| | | proteins | Delhi 110025 | |

| 4 115171 Elucidation of malacular | Drof Davi Maniithava | Dy Hitashi Nakatagawa |
|---|---|---|
| 4. 115171 Elucidation of molecular | Prof. Ravi Manjithaya, | Dr. Hitoshi Nakatogawa, |
| , 9 | Jawaharlal Nehru Centre for | Tokyo Institute of |
| , , , | Advanced Scientific Research | Technology Japan |
| autophagy | (JNCASR) Bangalore | |
| | Bengaluru Karnataka 560064 | D. Chili Varai |
| | Dr. Dibyendu Das, | Dr. Shiki Yagai, |
| Space for Organic Reaction | IISER Kolkata Mohanpur | Institute of Advanced |
| | Campus, West Bengal | Academic Research IAAR, |
| (145055 | 741246 | Chiba University Japan |
| 6. 115055 Understanding the molecular | Prof. Tapas Kumar Kundu, | Prof. Kazuhiko Igarashi, |
| · · · · · · | Jawaharlal Nehru Centre For | Tohoku University School |
| · · · · · · · · · · · · · · · · · · · | Advanced Scientific Research | of Medicine, Japan |
| chromatin protein PC4 in | (JNCASR) Bangalore | |
| nucleolar organization and | Bengaluru Karnataka | |
| DNA repair A story of self- crosstalk | 560064 | |
| 7. 115223 Development of Cultured | Dr. Narayanan | Dr. Naoki Okumura, |
| · · | Dr. Narayanan, Vision Research Foundation, | Doshisha University, |
| | Sankara Nethralaya, Chennai | Address- faculty of life and |
| for Treating Corneal | Tamilnadu 600006 | medical sciences, Doshisha |
| Endothelial Dysfunction | Tarriiriadd 000000 | university, kyoto Japan |
| 8. 115287 Floquet engineering and non- | Dr. Kush Saha, | Prof. Takashi Oka, |
| linear response in propagating | School of Physical Sciences, | University of Tokyo Japan |
| | National Institute of Science | Offiversity of Tokyo Japan |
| | Education and Research Jatni | |
| topological materials | Orissa 752050 | |
| 9. 115289 Multi-Phase Reference | Prof. Bishnu Prasad Das, | Prof. Kenichi Okada, |
| Sampling Phase-Locked Loop | IIT Roorkee, Uttarakhand, | Tokyo Institute of |
| with Sub-Sampling Technique | 247667 | Technology, Japan |
| for Future Millimeter-Wave | | |
| Communication | | |
| 10. 115303 Physics-based seismic hazard | Dr.Maheshreddy Gade, | Prof. Hiroyuki Goto, |
| for North-East India using | IIT, Mandi Mandi Himachal | Kyoto University Japan |
| Hierarchical slip-weakening | Pradesh 175075 | , , , |
| Patch Model | | |
| 11. 115339 Efficient protocols for | Prof. Siddhartha Santra, | Prof. David Elkouss |
| distribution and utilization of | IIT Bombay Powai, Mumbai | Coronas, |
| entanglement in the quantum | Maharashtra 400076 | Okinawa Institute of |
| internet | | Science and Technology |
| | | Japan |
| 12. 114459 Optogenetic Illumination of | Prof. Nishith Gupta, | Prof. Masahiro Yamamoto, |
| Toxoplasma Lytic Cycle | BITS Pilani, Hyderabad | Osaka University Japan |
| | Telangana 500078 | |
| 13. 114881 Chemistry and oxygenation | Dr. Partha Pratim | Dr. Kaushik Das, |
| | Di. Faitha Fiathii | |
| history of the Mesoproterozoic | Chakraborty, | Hiroshima university, Japan |
| history of the Mesoproterozoic Era hydrosphere Geochemical | | |
| | Chakraborty, | |
| Era hydrosphere Geochemical and geochronological approaches | Chakraborty, University of Delhi, New | |
| Era hydrosphere Geochemical and geochronological approaches 14. 114904 L-functions and multiple zeta | Chakraborty, University of Delhi, New Delhi 110021 Prof. Sanoli Gun, | Hiroshima university, Japan Prof. Maki Nakasuji, |
| Era hydrosphere Geochemical and geochronological approaches | Chakraborty, University of Delhi, New Delhi 110021 Prof. Sanoli Gun, Institute of Mathematical | Hiroshima university, Japan |
| Era hydrosphere Geochemical and geochronological approaches 14. 114904 L-functions and multiple zeta functions | Chakraborty, University of Delhi, New Delhi 110021 Prof. Sanoli Gun, Institute of Mathematical Sciences (Autonomous | Hiroshima university, Japan Prof. Maki Nakasuji, |
| Era hydrosphere Geochemical and geochronological approaches 14. 114904 L-functions and multiple zeta functions | Chakraborty, University of Delhi, New Delhi 110021 Prof. Sanoli Gun, Institute of Mathematical Sciences (Autonomous Institution under DAE, Govt. | Hiroshima university, Japan Prof. Maki Nakasuji, |
| Era hydrosphere Geochemical and geochronological approaches 14. 114904 L-functions and multiple zeta functions | Chakraborty, University of Delhi, New Delhi 110021 Prof. Sanoli Gun, Institute of Mathematical Sciences (Autonomous | Hiroshima university, Japan Prof. Maki Nakasuji, |

| 15. | 114641 | Quantum Materials for | Dr. Shrawan Kumar Mishra, | Dr. Shinji, |
|-----|--------|---------------------------------|-------------------------------|---------------------------|
| | | Generation and Detection of | Indian Institute of | National Institute for |
| | | Spin Current | Technology, (BHU) Varanasi | Materials Science NIMS, |
| | | · | Uttar Pradesh 221005 | , Japan |
| 16. | 114975 | Spin Current Driven by | Prof. Murtaza bohra, | Prof. Yuki Shiomi, |
| | | Microwave excitation and | Mahindra University | University of Tokyo Japan |
| | | Thermal Gradients at 2D | Hyderabad Telangana | |
| | | PtSe₂/Zn-Ferrite Interfaces | 500043 | |
| 17. | 114588 | Combined mechanochemistry | Dr.Ranjit Thakuria, | Dr. Toshiyuki Sasaki, |
| | | and synchrotron diffraction for | Gauhati University, | Japan Synchrotron |
| | | structure elucidation of | Guwahati Jalukbari Assam | Radiation Research |
| | | pharmaceutical cocrystals their | 781014 | Institute JASRI, Japan |
| | | physicochemical property and | | |
| | | pharmacological activity study | | |
| 18. | 114801 | Development of analog proton | Dr. Satya Prakash Pati, | Prof. Takeaki Yajima, |
| | | devices for energy-efficient | North-Eastern Hill University | Kyushu University Japan |
| | | biomonitoring | Umshing Mawkynroh | |
| | | | Shillong Meghalaya 793022 | |
| 19. | 114946 | Cell-type specific | Dr. Pavan Kumar Agrawal, | Dr. Toshiharu Ichinose, |
| | | transcriptional and | Kasturba Medical College, | Tohoku University Japan |
| | | translational mechanisms | Manipal, Madhav Nagar | |
| | | involved in social isolation | Karnataka 576104 | |
| | | stress in Drosophila. | | |
| 20. | 115123 | Development of robust | Dr. Chanchal Chakraborty, | Dr. Osamu Oki, |
| | | conductive MOF electrode by | BITS Pilani, Hyderabad | University of Tsukuba, |
| | | post-metal doping using | Telangana 500078 | Japan |
| | | solution process for high- | | |
| | | performance supercapacitor | | |
| | | device | | |