

DST-JSPS Approved Project Proposals - 2015

S. No	Title of Project	Indian PI & Institution	Japanese PI & Institution
1.	Structures, Energetics and Vibrational Spectra of Large Molecular Assemblies: Combined Experimental and Theoretical Studies Using Molecular Tailoring Approach on K computer	Dr. Shridhar R. Gadre Department of Chemistry, I. I. T. Kanpur 208016	Dr. Takahito Nakajima Computational Molecular Science Research Team RIKEN Advanced Institute for Computational Science
2.	Development of New Functional Dyes for Solar Light Harvesting Through Manipulation of Exciton Interaction	Dr. A. Ajayaghosh Photosciences and Photonics Group Chemical Sciences and Technology Division National Institute for Interdisciplinary Science and Technology (NIIST), CSIR Industrial Estate P. O. Trivandrum, 695019	Dr. Shigeyuki Yagi Department of Applied Chemistry, Graduate School Of Engineering Osaka Prefecture University
3.	Spectroscopy and Reactivity of MOCVD Intermediates	Dr. Naresh Patwari Ganpathi Dept. of Chemistry Indian Institute of Technology Bombay, Powai, Mumbai 400076	Prof. Akira Terasaki Dept of Chemistry Kyushu University, Fukuoka
4.	Tuning electron correlations in heavy fermion compounds by pressure to possible quantum criticality; high pressure resistivity and dHvA studies	Prof. A. Thamizhavel Dept of Condensed Matter Physics and Materials Science Tata Institute of Fundamental Research Dr. Homi Bhabha Road, Colaba, Mumbai 400 0005	Prof. Rikio Settai Department of Physics Niigata University
5.	Development of Chiral Catalysts for Asymmetric Cycloaddition and Oxidative Coupling Reactions	Dr. T Punniyamurthy Dept of Chemistry Indian Institute of Technology, Guwahati-781039	Dr. Ryo Lrie Dept of Chemistry Kumamoto University
6.	Development of organic materials for sensors, solar cells and high mobility films and characterization by optical second harmonic generation	Dr Shiv Kumar Gupta Distinguished Scientist and Head, Technical Physics Division Bhabha Atomic Research Centre Mumbai 400085	Prof. Mitsumasa Iwamoto Dept of Physical Electronics Tokyo Institute of Technology, Tokyo, Japan
7.	Development of light weight high performance carbon fiber fabric-carbon nanofibers hybrid polymer nanocomposites	Dr. Sanjay R. Dhakate Physics and Engineering of Carbon, Division of Materials Physics and Engineering CSIR-National Physical Laboratory Dr. K. S. Krishnan Marg, New Delhi 110012	Dr. Tomohiro Yokozeki Dept of Aeronautics &Astronautics Graduate School of Engineering The University of Tokyo
8.	Monolithic white light emitting diode (LED) with nano-InGaN broadband emitter	Dr. Manish Mathew Optoelectronics Devices Group Central Electronics Engineering Research Institute, Pilani Room No E-110, Optoelectronic Devices Group, CEERI Pilani, Rajasthan 333031	Dr. Masakazu Sugiyama School of Engineering The University of Tokyo

9.	Development of Low Temperature Processing of Ferrite Films for On-chip Integrated Device Applications in Beyond 4G (X-band) Cellular Phone Systems	Prof. Navakanta Bhat Centre for Nano Science and Engineering Indian Institute Of Science CeNSE, IISc Bangalore -560012	Prof. Masahiro Yamaguchi Electrical Communication Engineering Tohoku University
10.	Development of diamond detectors for high radiation environment	Dr. Pradeep Sarin Dept of Physics Indian Institute of Technology, Bombay Powai, Mumbai 400 076	Dr. Hajime Nishiguchi Institute of Particle and Nuclear Studies (IPNS) High Energy Accelerator Research Organization (KEK)
11.	Three Dimensional Fabrics for Medical Device Developments Utilizing Nanofiber Technologies	Dr B K Behera Department of Textile Technology IIT Delhi, Hauz Khas New Delhi- 110016	Prof. Hideaki Morikawa Institute for Fiber Engineering Shinshu University, Japan
12.	Collaborative studies on genomic diversity among bombycoid silkmths in Asia	Dr. K. P. Arun Kumar Dept. of Laboratory of Molecular Genetics Centre for DNA Fingerprinting and Diagnostics (CDFD) Bldg.7, Gruhakalpa, 5-4-399/B, Nampally, Hyderabad-500 001	Prof. Toru Shimada Agricultural and Environmental Biology The University of Tokyo
13.	Electrospun fiber reinforced gelatin-hydroxyapatite scaffolds for co-delivery of dual growth factors for bone regeneration	Dr. Manitha B. Nair, Amrita Centre for Nanosciences and Molecular Medicine, Amrita Institute of Medical Sciences & Research Center, Ponekkara P.O, Kochi - 682041	Dr. Yasuhiko Tabata Dept of Biomaterials, Field of Tissue Engineering Institute for Frontier Medical Sciences, Kyoto University
14.	Methane mitigation using unexplored phyto sources in ruminants and their effect on rumen microbial diversity	Dr. Raghavendra Bhatta, Director ICAR-NIANP, Bangalore National Institute of Animal Nutrition and Physiology, Adugodi Bangalore 560030	Dr. Yutaka Uyeno Faculty of Agriculture Shinshu University, Japan
15.	Collaborative Effort to Understanding and Characterization of Novel Molecular Changes In Fanconi Anemia (FA)	Dr. Babu Rao Vundinti Dept of Cytogenetics National Institute of Immunohaematology (ICMR) 13 th Floor, New Multistoreyed building, K.E.M Hospital campus, Parel, Mumbai-400012,	Prof. Minoru Takata Laboratory of DNA Damage Signaling, Dept of Late Effects Studies Radiation Biology Centre, Kyoto University
16.	Metabolic pathway engineering of Synechocystis for effective production of scytonemin, a potential anti-proliferative and UV protecting compound	Dr J. S. S. Prakash Dept of Biotechnology and Bioinformatics University of Hyderabad Hyderabad 500 046, India	Prof. Iwane Suzuki Graduate School of Life and Environmental Sciences University of Tsukuba
17.	Comparative study of HIV/AIDS-associated genome/epigenome diversities in India and Japan	Dr. Gurvinder Kaur Dept of Transplant Immunology & Immunogenetics All India Institute of Medical Sciences Ansari Nagar, New Delhi-29	Dr Akinori Kimura Medical Research Institute Tokyo Medical and Dental University
18.	Plant probiotics to improve crop production in low nutrient soil	Prof. Lingaraj Sahoo Department of Biotechnology, Indian Institute of Technology Guwahati, Guwahati-781039, Assam	Prof. Hiroyuki Koyama Applied Biological Science Gifu University

19.	Comprehensive study of particle acceleration processes in Earth's magnetosphere during extreme space weather events	Dr. Amarkumar Pandharirao Kakad Upper Atmospheric Sciences Indian Institute of Geomagnetism Plot No. 5, Sector 18, New Panvel (West), Navi Mumbai- 410218,	Dr. Yoshiharu Omura Division of creative research & development of humansphere Research Institute for Sustainable Humansphere, Kyoto University, Gokasho, Uji, Japan
20.	Studies of low redshift supernovae - steps towards understanding the universe at high redshift	Prof. G.C. Anupama Indian Institute of Astrophysics II Block, Koramangala Bangalore 560 034	Prof. K. Nomoto Institute for the Physics and Mathematics of the Universe, University of Tokyo
21.	Machine Translation between Japanese and Hindi using Pivots	Prof. Pushpak Bhattacharyya Dept of Computer Science and Engineering Indian Institute of Technology Bombay Powai, Mumbai-400 076	Prof. Sadao Kurohashi Dept of Intelligence Science and Technology Kyoto University

DST-JSPS Approved Workshop Proposals - 2015

S. No	Title of Workshop	Indian PI & Institution	Japanese PI & Institution
1.	Emergent phenomena in transition-metal compounds and related materials	Professor D. D. Sarma Indian Institute of Science Solid State and Structural Chemistry Unit Bangalore 560012	Professor A. Fujimori Department of Physics University of Tokyo
2.	India-Japan workshop on "Bimolecular Electronics and Organic Nanotechnology Technology for Environment Preservation"	Dr. Bansi Dhar Malhotra Dept of Biotechnology Delhi Technology University (Govt. of NCT of Delhi) Shahbad Daulatpur, Main Bawana Road, Delhi-110042	Prof. M Onoda Dept of Electrical Engineering and Computer Sciences University of Hyogo