

Department of Science & Technology
International Division

An Indo-Russian Joint call for proposals under DST-RFBR MoU was advertised in October 2010. 86 common project proposals were received against the joint call for which last date was 30th November 2010. Based on scientific merit, national priority of both the countries and scientific strengths of the project coordinators, Department of Science & Technology and Russian Foundation for Basic Research have jointly decided to support following 24 proposals. The duration of the project would be for 2 years. Project coordinators are being informed separately to complete administrative formalities for release of DST grant.

| SI No. | Proj. Code | Area | Title | Indian Coordinator | Russian Coordinator |
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| 1. | RUSP-1102 | Biology & Medical Sciences | Investigating molecular mechanisms underlying damaging effects of environmental pollutants-polycyclic aromatic hydrocarbons (PAH) on photosynthesis | Dr. Anjana Jajoo, Reader, School of Life Sciences, Devi Ahilya University, Indore-452 017, M.P. | Dr. Suleyman I. Allakhverdiev, Professor, Institute for Basic, Biological problems, Puschino, Moscow region, Moscow, Russia |
| 2. | RUSP-1103 | Earth Sciences | Geophysical study of the Ninetyeast Ridge and adjoining ocean basins-constrain on intraplate deformation and Keruguelen hotspot Kinematics | Dr. D.Gopala Rao, Geology Emeritus Scientist Department, Osmania University, Hyderabad, Andhra Pradesh, | Dr. O.V.levchenko-1948, Shirshov Institute of Oceanology, RAS, ResearchScientist |
| 3. | RUSP-1107 | Physics & Astronomy | Interaction of Ionized, Atomic and Molecular Gas in Star Forming Regions | Devendra Kumar Ojha, Associate professor, Tata Institute of Fundamental Research, DAA, Homi Bhabha Road, Colaba, Mumbai 400 005, | Igor I. Zinchenko, Professor & Head of Department, Institute of Applied Physics, Russian Academy of Sciences, 46, Ulyanov STR., Nizhny Novgorod 603950, Russia, |
| 4. | RUSP-1108 | Biology & Medical Sciences | Biodiversity of benthic faunal assemblages along the salinity gradients:patterns in arctic (the White Sea) and tropical (Bay of Bengal, India) estuaries | Prf. Dr. T. Balasubramanian, Director & Dean, Centre of Advanced study in Marine Biology, Faculty of Marine Sciences, Annamalai University, Parangipettai, TamilNadu, India | Yrui Mazei, Professor, Penza State Pedagogical University, Lermontova str., 37, Penza 440026. |
| 5. | RUSP-1110 | Physics & Astronomy | Magnetic fields in star-forming clouds | Prof. Ashoke Kumar Sen, Professor, Department of Physics, Assam Univesity, Silchar 788011, India | Prof. Nikolai Voshchinnikov, St. Petersburg University, Universitetskij pr 28, St.Petersburg-Peterhof, 198504, Russia. |

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| 6. | RUSP-1115 | Biology & Medical Sciences | Role of mitochondrial MAVS and NLRX1 interaction in regulation of TNF induced ROS and inflammation | Dr. Rajesh Singh, Group Leader, Cell Biology Lab, School of Biological Sciences and Biotechnology, Indian Institute of Advanced Research, Koba Institutional Area, Koba, Gandhinagar-382007, GJ, | Dr. Peter M.Chumakov, Head, Cell Proliferation Laboratory, Engelhardt Institute of Molecular Biology, Russian Academy of Sciences, Vavilov street 32, Moscow, 119991, Russia. |
| 7. | RUSP-1116 | Chemistry | Study of transmembrane ion channel activity of cyclo-((1-6)-B-D-glucosamine derivatives and evaluation of their antibacterial potential | Dr. Pinaki Talukdar, Assistant Professor, Indian Institute of Science Education and Research (IISER) Pune, First floor, Central Tower, Sai Trinity Building Garware Circle, Sutarwadi, Pashan, Pune, Maharashtra 411021, India. | Dr. Marina Gening, Senior Research Scientist, Laboratory of Glycoconjugate Chemistry, N.D. Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences, Leninsky prospect, 47, Moscow B-334,119991 |
| 8. | RUSP-1117 | Earth Sciences | Biosphere across the Vendian-Cambrian and Permian-Triassic Periods and their response to the global Late Proterozoic and late Palaeozoic glaciations | Dr. Mukund Sharma, Scientist"E", Birbal Sahni Institute of Palaeobotany, 53 University Road, Lucknow-226 007, uttar Pradesh, India, | Dr. V.N.Sergeev, Scientist,D.Sc. Geological Institute, Russian Academy of Sciences, PyZhevskii per.,7,119017, Moscow Russia, |
| 9. | RUSP-1120 | Physics & Astronomy | The spectral and photometric monitoring of gamma-ray burst afterglows, core-collapse supernovae and their host galaxies | Dr. Shashi Bhushan Pandey, Aryabhata Research Institute of Observational Sciences (ARIES), Manora Peak, Nainital-263129 | Dr. V.V. Sokolov, The Special Astrophysical Observatory (SAO) of Russian Academy of Sciences, Nizhnij, Arkhyz, Karachai-Cirkassian Republic, Russia 369 167 |
| 10. | RUSP-1122 | Earth Sciences | Constraints on crustal evolution and ore mineralization in the Aravalli-Bundelkhand Proto-Continent, Northern Indian Shield, and the Eastern Baltic Shield, Russia | Prof. Talat Ahmad, Department of Geology, Centre for Advance Studies in Geology, University of Delhi, Delhi-110 007,India | Voytekhovskiy, Yury, Director of the Geological Institute of the Kola Science Centre of the Russian Academy of Sciences, 154 Fersman Str., 184209 Apatity Murmansk region, Russia, |
| 11. | RUSP-1125 | Physics | Magnetism in low-dimensional strongly correlated spin systems probed using NMR/NQR spectroscopy | A.V.Mahajan, Professor, Dept. of Physics, IIT Bombay, Powai Mumbai-400 076 | A.Gippius, Professor, Dept. of Physics, Moscow State University, Russia |
| 12. | RUSP-1127 | Earth Sciences | Deep Structure and Seismicity in Southeast Asia: Northeast India and Andaman-Nicobar region | Professor J R Kayal, CSIR Emeritus Scientist, School of Oceanographic Studies, Jadavpur University, Kolkata 700 032, India | Professor Sergei S Arefiev, Head of the Strong earthquake Lab, Schmidt Institute of Physics of the Earth, Russian Academy of Sciences, Moscow, Russia |

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| 13. | RUSP-1140 | Biology and medical science | Detection and analysis of sequence features specifying the adhesion ability of human influenza virus neuraminidase and hemagglutinin proteins | Dr. S. Ramachandran, Scientist EII, Institute of Genomics and Integrative Biology (CSIR), Mall Road, Delhi 110 007 | Dr. Dmitry Afonnikov, Head, Evolutionary Bioinformatics, Institute of Cytology and Genetics, SB RAS, 10 Lavrentyev Ave., 630090, Novosibirsk |
| 14. | RUSP-1148 | Earth Sciences | Seismic hazard and risk assessment based on pattern recognition:Himalayas and adjacent territories | Dr. Imtiaz A Parvez, Scientist, CSIR Centre for Mathematical Modelling and Computer Simulation (C-MMACS) NAL Belur Campus Bangalore-560037 | Prof.Vladimir G Kossobokov, Chief Scientist, International Institute of Earthquake Prediction Theory and Mathematical Geophysics, Russian Academy of Sciences, 84/32 Profsoyuznaya Street, 117997 Moscow, Russia |
| 15. | RUSP-1160 | Engineering Sciences | Development of principles of eco-friendly technologies of gas combustion on the base of micro channels technologies | Sudarshan Kumar, Assistant Professor, Department of Aerospace Engineering, IIT Bombay, Powai, Mumbai-76 | Dr. S.Minaev, Leading Researcher, Institute of Theoretical and Applied Mechanics, SB-RAS, Novosibirsk 630090, |
| 16. | RUSP-1161 | Telecommunications and Computer Science | Development of Techniques for Metamorphic Malware Detection and Analysis | Prof. Manoj Singh Gaur, Professor, Department of Computer Engineering, Malaviya National Institute of Technology JLN Marg, Jaipur-302017 | Prof. Lyudmila Babenko, Professor, Department of IT-Security, Taganrog Institute of Technology - Southern, Federal University, Chekhova 2, Taganrog, 347928, Russia |
| 17. | RUSP-1163 | Telecommunication and Computer Science | Wireless Home Security System with Mobile (WHSSM) | Dr. Samrat Vivekanand Omprakash Khanna, Asso. Prof & Head (IT), Institute of Science and Technology for Advanced Studies and Research (ISTAR) Vallabh Vidyanagar-388120, Gujarat | Prof. Vladimir Ivanovich Tsurkov, Head of department, Professor, Computing Centre of RAS Tsurkov |
| 18. | RUSP-1168 | Biology and Medical Science | Identification and functional analysis of candidate genes associated with stay green and purple grain traits in wheat | Dr. Uttam Kumar, Associate Fellow, IHC Complex, Lodhi Road Tel: +911124682100 | Dr. Elena Khestkina, Senior research worker, Institute of cytology and Genetics SB RA Lavrentjeva Ave. 10, Novosibirsk, 63009, Russia |
| 19. | RUSP-1175 | Biology and Medical Sciences | Cue from Chemical defense of Indian Echinoderms to derive anticancer and immunomodulatory molecules | K. Padmakumar, Hon. Director, Centre for Marine Biodiversity, Kerala University Campus, Kariavattom, Trivandrum-695581, Kerala | Vladimir I. Kalinin, Leading scientist of PIBOC, Pacific Institute of Bioorganic Chemistry, Pr. 100-letya Vladivostoka, 159, 690022, Vladivostok, |

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| 20. | RUSP-1176 | Biology and Medical Science | Computer-Aided Study of Hidden Potential in Traditional Indian medicine and Its Pharmacological Validation | Dr. Rajesh Kumar Goel, Associate Professor & Head, Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala-147002 | Dr. Vladimir Poroikov, Professor & Head, Department for Bioinformatics, Institute of Biomedical Chemistry of Rus. Acad. Med. Sci. (IBMC) Pogodinskaya Str.,10, Moscow-119121, |
| 21. | RUSP-1179 | Physics | Size-dependent the amorphous-amorphous phase transitions in tetrahedrally and octahedrally coordinated nanocrystals | Prof. Prafulla K. Jha, Professor, Department of Physics, Bhavnagar University Bhavnagar-364 002, Gujarat | Dr. Nikolay Ovsyuk, Senior Scientist, Institute of Mineralogy and Petrology, Russian Academy of Sciences, Novosibirsk 630090, |
| 22. | RUSP-1180 | Telecommunication and Computer Science | Synthesis of high quality testable circuits and diagnosis for performance oriented faults | Dr. Virendra Singh, Faculty (SSO) SERC, Indian Institute of Science (IISc) Bangalore | Prof. Anzhela Matrosova, Professor, Tomsk State University, Russia |
| 23. | RUSP-1182 | Chemistry | Polymorphism and Z 1 phenomena in molecular crystals: Topological analysis of electron density function as a tool in examining intermolecular interactions | T.N. Guru Row, Professor, Solid State and Structural Chemistry Unit, Indian Institute of Science, Bangalore 560012 | Konstantin Lyssenko, Professor A.N.Nesmeyanov Institute of Organoelement compounds, Russian Academy of Sciences, Vavilov.Str.28Moscow119 991, Russia |
| 24. | RUSP-1183 | Physics | Electroresistance in single crystals and thin films of mixed valence manganites | Prof.A.K. Raychaudhuri, Director and Senior Professor, S.N.Bose National Centre for Basic Sciences, JD Block, Sector-III, Slat Lake, Kolkata-700 098 | Prof.Yakov M. Mukovskii, Professor, Dept. of Theoretical Physics and Quantum Technologies, National Science and Technology University "MISIS' Leninsky Prospect 4, Moscow 119049, |