

Department of Science & Technology
International Division

An Indo-Korean Joint call for proposals under the Programme of Cooperation with the Ministry of Education, Science & Technology of the Republic of Korea was advertised in January 2011. 129 common project proposals were received against the joint call for which last date was 28th February. Based on scientific merit, national priority of both the countries and scientific strengths of the project coordinators, Department of Science & Technology and Ministry of Education, Science & Technology of the Republic of Korea have jointly decided to support following 15 proposals. The duration of the project would be for 3 years. Project coordinators are being informed separately to complete administrative formalities for release of DST grant.

| SI No | Proj. Code | Area | Title | Indian Coordinator | Korean Coordinator |
|-------|------------|-------------------------------------|---|---|---|
| 1. | ROKP-1128 | Robotics & Engineering Sciences | Fault Tolerant Control and Reconfiguration of Walking Robots with Flexible Legs | P. M. Pathak Indian Institute of Technology, Roorkee | Jung-Min Yang, Catholic University of Daegu, Gyeongsan |
| 2. | ROKP-11114 | Nutrition & Food Safety | Identification of novel anti-cancer or chemopreventive agents by synthetic analogues of natural compounds and their molecular mechanism(s) study. | Kanchugarakoppal S. Rangappa University of Mysore Mysore | Hyong Joo Lee, Seoul National University, Seoul |
| 3. | ROKP-1157 | Renewable Energy | Development of Platform Technology for Bio-oil Production Using Heterotrophic Microalgae | Z. P. Bhatena Bhavan's College, Mumbai | Jeong-Woo Seo, Korea Research Institute of Bioscience & Biotechnology, Jeonbuk |
| 4. | ROKP-11117 | Renewable Energy | Experimental investigations of fuel sprays of biodiesel, straight vegetable oils and their blends with mineral diesel for optimizing fuel injection equipment to lower engine exhaust emissions | Avinash Kumar Agarwal Indian Institute of Technology, Kanpur | Sungwook Park, Hanyang University, Seoul |
| 5. | ROKP-1176 | Chemical & Biochemical Technologies | Design and Synthesis of Quantum Dot-Based Benzimidazole-Coupled Chemosensors | Narinder Singh Indian Institute of Technology Ropar | Doo Ok Jang, Yonsei University, Gangwon |
| 6. | ROKP-11129 | Chemical & Biochemical Technologies | Utilization of carbon dioxide for the production of fuel and chemicals. | Suman L. Jain Indian Institute of Petroleum, Dehradun | Kwon Taek Lim, Pukyong National University, Busan |
| 7. | ROKP-11100 | Health & Medical Science | Mycobacterium tuberculosis infection: understanding the role of microRNAs in regulating the immune response of macrophages | Joyoti Basu Bose Institute, Kolkata | Eun-Kyeong Jo, Chungnam National University, Daejeon |

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| 8. | ROKP-1102 | Health & Medical Science | The interaction of myeloid-derived cells with Japanese encephalitis virus and its clinical application | Sunit Kumar Singh Centre for Cellular and Molecular Biology (CCMB), Hyderabad | Seong Kug Eo, Chonbuk National University, Jeonju |
| 9. | ROKP-11113 | Material Science & Technology | Bioactive, sponge-type, 3-dimensional macroporous scaffold for soft tissue regeneration | Sayam Sen Gupta National Chemical Laboratory, Pune | Giyoong Tae, Gwangju Inst. of Science and Technology, Gwangju |
| 10. | ROKP-1153 | Material Science & Technology | Characterization and modification of ceria particles for STI CMP (Shallow Trench Isolation Chemical Mechanical Planarization) | S. Ramanathan Indian Institute of Technology Madras, Chennai | Jin Goo Park, Hanyang University, Ansan |
| 11. | ROKP-1118 | Water Resources & Environment | Collaboration study on the potential linkage on the monsoon variability of Korea and India by the impacts of Pacific and Indian Ocean. | Sushil Kumar Dash Indian Institute of Technology Delhi | Jaiho Oh, Pukyong National University, Busan |
| 12. | ROKP-11109 | Water Resources & Environment | Nanomaterial-based membrane in water purification | Chiranjib Bhattacharyya Jadavpur University, Kolkata | H C Choi, Gwangju Institute of Science and Technology, Gwangju |
| 13. | ROKP-1120 | Water Resources & Environment | Synthesizing super-catalysts and tracking their catalytic pathways | Debabrata Pradhan Indian Institute of Technology Kharagpur | Youngku Sohn, Yeungnam University, Gyeongbuk |
| 14. | ROKP-1184 | Information Technology | System modeling and signal processing for cardiopulmonary sensing using microwave sensor | Manoj Kumar Singh Banaras Hindu University, Varanasi | Yong Hoon Kim, Gwangju Institute of Science and Technology, Gwangju |
| 15. | ROKP-1194 | Information Technology | Contact less Finger Motion Recognition for Mobile Applications | Subhasis Chaudhuri Indian Institute of Technology Bombay, Mumbai | Gyeyoung KIM, Soongsil University, Seoul |