

SwarnaJayanti Fellowships Scheme 2018-19

List of Applicants/Candidates Shortlisted for Presentation
before
National Core Committee (NCC)

Venue: Indian Institute of Technology-Delhi

Haus Khas,

New Delhi-110016

Date: 29th & 30th November, 2019

S.No	Candidate/Applicant Name & Address	Project Title Temporary File No.
1.	Dr. Arpan Cognitive Brain Dynamics Lab National Brain Research Centre, NH-8, Manesar, Gurgaon-122051	Communication strategies of large-scale neural networks underlying social cognition (DST/SJF/LS/2019/11)
2.	Dr. Deepak Nair Centre for Neuroscience, Indian Institute of Science, Bengaluru-560012	Discerning and altering the nanomachinery involved in the early onset of Alzheimer's Disease at excitatory synapses (DST/SJF/LS/2019/59)
3.	Dr. Sheetal Gandotra CSIR- Institute of Genomics and Integrative Biology, Mall Road, Delhi -110007	Lipid Droplet associated proteins-functions beyond lipid metabolism in Mycobacterium tuberculosis infected macrophages (DST/SJF/LS/2019/84)
4.	Dr. Jitender Giri National Institute of Plant Genome Research, Aruna Asaf Ali Marg, P.O. Box No. 10531 New Delhi -110067	Unlinking phosphate deficiency responses from their adverse effects on growth in rice (DST/SJF/LS/2019/132)
5.	Dr. Rakesh Singh Laishram Rajiv Gandhi Centre for Biotechnology, Thycaud Post, Poojappura, Thiruvananthapuram-695014	Alternative Polyadenylation in gene expression Implications in cardiovascular diseases (DST/SJF/LS/2019/145)
6.	Dr. Vishal Rai Deptt. of Chemistry Indian Institute of Science Education and Research Bhopal, Bypass Road, Bhauri, Bhopal -462066	Chemical Toolbox for Precision Engineering of Proteins. (DST/SJF/CS/2019/14)
7.	Dr. Santanu Mukherjee Deptt. of Organic Chemistry, Indian Institute of Science, Bengaluru -560012	Iridium-Catalyzed Enantioselective Allylic Substitution Approach towards Active Pharmaceutical Ingredients (APIs) (DST/SJF/CS/2019/29)
8.	Dr. Kanishka Biswas New Chemistry Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, PO -Jakkur, Bengaluru -560064	Intrinsically Low Thermal Conductive Metal Chalcogenides for Thermoelectric "Waste Heat" to "Electrical Energy" Conversion (DST/SJF/CS/2019/32)

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9.	Dr. Gopalan Rajaraman Dept. of Chemistry, Indian Institute of Technology- Bombay, Powai, Mumbai 400 076	An About-face Approach to Molecular Spintronics Materials (DST/SJF/CS/2019/43)
10.	Dr. Apoorva Khare Deptt. of Mathematics, Indian Institute of Science, Bengaluru-560012	Transformations preserving positivity in analysis, and connections to algebra and combinatorics (DST/SJF/MS/2019/3)
11.	Dr. Mahender Singh Deptt. of Mathematical Sciences, Indian Institute of Science Education and Research Mohali, Knowledge City, Sector 81 SAS Nagar, PO Manauli Punjab-140306	Knots, Groups and Actions (DST/SJF/MS/2019/11)
12.	Dr. Bhalamurugan Sivaraman Physical Research Laboratory, Navrangpura, Ahmedabad -380009	Shock processing of astrochemical ices (DST/SJF/EAS/2019/6)
13.	Dr. Vijayakumar S Nair Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram -695022	What compensates the masking effects of aerosols on global warming (DST/SJF/EAS/2019/16)
14.	Dr. Subimal Ghosh Department of Civil Engineering, Indian Institute of Technology Bombay, Powai, Mumbai -400076	Perturbation Dynamics and Resilience of Human-Natural Hydro-climatic System (DST/SJF/EAS/2019/23)
15.	Dr. Rajan Jha School of Basic Sciences Indian Institute of Technology Bhubaneswar, Argul-752050	Partially Tunable Single Photon Emitters based on 2D materials Quantum Dots Coupled to Photonics Nanowires at room temperature and its Applications (DST/SJF/PS/2019/7)
16.	Dr. Smarajit Karmakar Tata Institute of Fundamental Research-Hyderabad, 36/P, Gopanpally Village, Serilingampally, Ranga Reddy District, Hyderabad-500107	Effects of inclusions on the dynamical and rheological properties of disordered systems and understanding plasticity at Nano scale (DST/SJF/PS/2019/20)
17.	Dr. Arjun Bagchi Deptt. of Physics, Indian Institute of Technology Kanpur, Kanpur-208016	One symmetry to rule them all (DST/SJF/PS/2019/24)
18.	Dr. Anindya Das Deptt. of Physics Indian Institute of Science, Bengaluru -560012	Exploring the emergent topological properties of graphene hybrids (DST/SJF/PS/2019/32)
19.	Dr. Yogesh Simmhan Department of Computational and Data Sciences, Indian Institute of Science, Bengaluru -560012	Scalable Management and Analytics of Temporal Graphs DST/SJF/ET/2019/1
20.	Dr. Kausik Majumdar Deptt. of Electrical Communication Engineering, Indian Institute of Science, Bengaluru -560012	Van der Waals Heterojunctions - A Platform for Quantum Technologies DST/SJF/ET/2019/6

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21.	Dr. Prabhu Rajagopal Deptt. of Mechanical Engineering Indian Institute of Technology Madras, Chennai-600036	Phonon Source for Imaging and Quantum Computing DST/SJF/ET/2019/34
22.	Dr. Rajneesh Bhardwaj Deptt. of Mechanical Engineering, Indian Institute of Technology Bombay, Powai, Mumbai-400076	Drying droplets of colloidal suspensions and blood on a solid surface from fundamentals to applications in bioengineering and forensics DST/SJF/ET/2019/44
23.	Dr. Abha Misra Instrumentation and Applied Physics Indian Institute of Science, Bengaluru-560012	Graphene based Meta-FET Device a Unique Multifunctional Platform for Integrated Molecular Sensing and Opto- electronic Communication DST/SJF/ET/2019/45
24.	Dr. Shweta Agrawal Deptt. of Computer Science and Engineering, Indian Institute of Technology Madras, Chennai -600036	Post Quantum Cryptography Challenges, Opportunities and Beyond DST/SJF/ET/2019/73
25.	Dr. S Bose Deptt. of Materials Engineering, Indian Institute of Science, Bengaluru -560012	Bio-inspired, energy efficient and a sustainable strategy for treating landfill leachate using porous 2D and 3D hierarchical carbon structures DST/SJF/ET/2019/101