

SwarnaJayanti Fellowship 2016-17

List of Candidates for Presentation to National Core Committee

Venue: Indian Academy of Sciences

C.V.Raman Avenue, Sadashivanagar

Bengaluru-560080

Date: 3rd & 4th November, 2017

S.No	Candidate/Applicant Name & Address	Project Title Temporary File No.	Date of Presentation
1.	Dr. Jayanta Das D/o Metallurgical and Materials Engineering, Indian Institute of Technology Kharagpur, Kharagpur-721302	Development of Shape Memory Magnetocaloric Alloys for Next Generation Refrigeration DST/SJF/ET-07/2016-17	Friday 3 rd November, 2017
2.	Dr. (Ms.) Parinda Vasa Department of Physics, Indian Institute of Technology Bombay, Powai, Mumbai- 400 076	Investigations of strong radiative coupling between excitons and surface plasmon polaritons in single hybrid semiconductor-metal nanoantenna DST/SJF/PS-08/2016-17	Friday 3 rd November, 2017
3.	Dr. Shamik Sen Dept. of Biosciences & Bioengineering, Indian Institute of Technology- Bombay, Powai Mumbai-400076	Biophysical alterations of glycocalyx: implications for survival, invasion and drug resistance in breast cancer DST/SJF/LS-38/2016-17	Friday 3 rd November, 2017
4.	Dr. Subi Jacob George Supramolecular Chemistry Lab, New Chemistry Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru-560064	Bio-inspired Strategies for Kinetically Controlled Living Supramolecular Polymerization and Prospective Opto-electronic Applications DST/SJF/CS-10/2016-17	Friday 3 rd November, 2017
5.	Dr. Vijayakumar S. Nair Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram-695022	Stratospheric Black Carbon: The unknown climate link DST/SJF/E&AS-04/2016-17	Friday 3 rd November, 2017
6.	Dr. Anish Ghosh School of Mathematics Tata Institute of Fundamental Research Homi Bhabha Road, Navy Nagar Mumbai-400005	Dynamics on homogeneous spaces and number theory DST/SJF/MS-05/2016-17	Friday 3 rd November, 2017
7.	Dr. Saurabh Vijaykumar Lodha Department of Electrical Engineering Indian Institute of Technology Bombay, Powai Mumbai-400076	High Speed 2D Electronic and Optoelectronic Devices Introduction and Objectives DST/SJF/ET-52/2016-17	Friday 3 rd November, 2017

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8.	Dr. Chandrima Das Biophysics & Structural Genomics Division, Saha Institute of Nuclear Physics, Kolkata-700 064	Understanding the role of Zinc Finger Transcription Factors in regulating cellular differentiation programs through epigenetic reprogramming DST/SJF/LS-71/2016-17	Friday 3 rd November, 2017
9.	Dr. Kamal Priya Singh Department of Physical Sciences, Indian Institute of Science Education and Research Mohali, Sector 81, Manauli, Mohali- 140306	Performing the Einstein-Balazs thought experiment with novel ultrasensitive force sensors and few cycle femtosecond pulses DST/SJF/PS-17/2016-17	Friday 3 rd November, 2017
10.	Dr. Rahul Banerjee Physical/Materials Chemistry Division, CSIR-National Chemical Laboratory, Dr. Homi Bhabha Road, Pune-411 008	Interfacial crystallization of covalent organic frameworks and covalent organic framework membranes with ultrahigh surface area for molecular separation and methane storage DST/SJF/CS-12/2016-17	Friday 3 rd November, 2017
11.	Dr. Ajay Singh Technical Physics Division, Bhabha Atomic Research Centre, Trombay Mumbai-400085	Flexible conducting polymer based thermoelectric power generators for tapping heat ejected by the human body DST/SJF/ET-26/2016-17	Friday 3 rd November, 2017
12.	Dr. Ashwani Kumar CSIR-Institute of Microbial Technology, Sector-39 A, Chandigarh-160036	Unravelling the role cellulose biosynthesis machinery and its role in mycobacterial biofilms DST/SJF/LS-76/2016-17	Friday 3 rd November, 2017
13.	Dr. Suryendu Dutta Department of Earth Sciences, Indian Institute of Technology Bombay, Powai , Mumbai-400076	Biosynthetic evolution of plant terpenoids on a rafting continent DST/SJF/E&AS-05/2016-17	Friday 3 rd November, 2017
14.	Dr. Sudip Misra Department of Computer Science and Engineering, Indian Institute of Technology- Kharagpur, Kharagpur-721302	PAWAN: Pervasive Aerial Wireless Analytic Networks for Collaborative Sensing in Disaster Management DST/SJF/ET-38/2016-17	Friday 3 rd November, 2017
15.	Dr. Aweek Bid Department of Physics, Indian Institute of Science, Bangalore- 560012	Exploring topological excitations in quantum-matter heterostructures DST/SJF/PS-09/2016-17	Friday 3 rd November, 2017
16.	Dr. Nirmalya Ballav Department of Chemistry, Indian Institute of Science Education & Research Pune, Dr. Homi Bhabha Road, Pashan, Pune-411008	In Search of Room-Temperature Ferromagnetism and Spin-Seebeck Effect in Molecular Semiconductors DST/SJF/CS-14/2016-17	Saturday, 4 th November, 2017

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17.	Dr. Ranjith Padinhateeri Biosciences and Bioengineering, Indian Institute of Technology- Bombay, Powai Mumbai-400076	A multi-scale model to predict statistics of chromatin states and dynamics of chromatin DST/SJF/LS-84/2016-17	Saturday, 4 th November, 2017
18.	Dr. Ishan Sharma Department of Mechanical Engineering, Indian Institute of Technology Kanpur, Kanpur-208016	Disruption, stability and formation of granular asteroids and other minor planets DST/SJF/E&AS-26/2016-17	Saturday, 4 th November, 2017
19.	Dr. Suvrat Raju International Centre for Theoretical Sciences- TIFR, Survey No. 151, Shivakote Village, Hesaraghatta Hobli, Bengaluru (North)- 560 089	Holographic investigations of the black hole interior DST/SJF/PS-18/2016-17	Saturday, 4 th November, 2017
20.	Dr. Kantesh Balani D/o Materials Science and Engineering, Indian Institute of Technology Kanpur, Kanpur-208016	Hip Joint Replacement System DST/SJF/ET-94/2016-17	Saturday, 4 th November, 2017
21.	Dr. Debabrata Maiti Department of Chemistry Indian Institute of Technology Bombay, Powai, Mumbai-400076	Lignin Valorization: Improving Lignin Processing by Catalysis DST/SJF/CS-30/2016-17	Saturday, 4 th November, 2017
22.	Dr. Dipyaman Ganguly Division of Cancer Biology & Inflammatory Disorders, CSIR-Indian Institute of Chemical Biology, 4, Raja S.C. Mullick Road, Jadavpur Kolkata-700091	Mechanistic exploration of the pathogenetic role of type I interferons in metabolic syndrome and preclinical validation of therapeutic targeting DST/SJF/LS-137/2016-17	Saturday, 4 th November, 2017
23.	Dr. Prateek Sharma Department of Physics, Indian Institute of Science, Bangalore- 560012	Semi-cosmological simulations of the circumgalactic medium: From dwarf galaxies to massive clusters over cosmic time DST/SJF/PS-35/2016-17	Saturday, 4 th November, 2017