

## SwarnaJayanti Fellowships Scheme- 2020-21

### Applications Received -Life Sciences

S.No	Title of the Proposed Project Proposal/ Temporary File No.	Applicant Name And Institute
1.	To investigate the therapeutic potential of probiotics in treatment and management of osteoporosis - Role of regulatory B cells "Bregs"  DST/SJF/LS/2021/400	Dr.Rupesh K Srivastava  All India Institute of Medical Sciences, New Delhi
2.	$\alpha$ -Linolenic acid-induced podosomes formation for Purinergic G-Protein Coupled Receptor P2Y12R-mediated microglial migration in Tauopathies  DST/SJF/LS/2021/399	Prof.Subashchnadrase Chinnathambi  CSIR-National Chemical Laboratory, Pune
3.	G-protein beta 5 functions to regulate inter-communication of different cardiac cell types to attenuate chemo-induced cardiac fibrosis  DST/SJF/LS/2021/398	Dr.Biswanath Maity  Centre of Biomedical Research, Lucknow
4.	In Silico Anticancer Evaluation, Molecular Docking Amp Pharmacophore Modelling of Some Green Synthethic Nanoparticles on Targeted Breast Cancer Cells and Their Cytotoxic Effects.  DST/SJF/LS/2021/397	Dr.Debasish Pradhan  Utkal University, Bhubaneswar
5.	Evaluation of immune potential of wholecell antigen derived from Microsporium canis and Trichophyton mentagrophytes as potential vaccine candidates  DST/SJF/LS/2021/396	Dr.Jubeda Begum  College of Veterinary and Animal Science, Govind Ballabh Pant University of Agriculture and Technology, Pant Nagar
6.	Abscisic acid alone and in combination with perlolyrine against various targets of flaviviruses An In-silico and In-vitro target-based approach  DST/SJF/LS/2021/395	Dr.Anoop Kumar  Delhi Pharmaceutical Science And Research University, New Delhi
7.	Development of molecular assays to detect organ meat and specified risk materials in foods and feedstuffs of ruminant origin  DST/SJF/LS/2021/394	Dr.Vishnuraj MR  ICAR-National Research Centre On Meat, Hyderabad

8.	Evaluation of therapeutic potential of antimicrobial peptide against ESKAPE organisms  DST/SJF/LS/2021/393	Dr.Ajay Kumar Oli  SDM Research Institute for Biomedical Sciences, SDM University, Dharwad
9.	Purification and characterization of enzymes from plastic degrading bacterial species and Development of plastic biodegradable agent from novel bacteria  DST/SJF/LS/2021/391	Dr.Aziz Mohammad Khan  Jayoti Vidyapeeth Women University, Jaipur
10.	Exploration of apoptosis independent oocyte death pathways to impede ovarian aging.  DST/SJF/LS/2021/390	Dr.HBD Prasada Rao  National Institute of Animal Biotechnology, Hyderabad
11.	Interaction study of Murraya koenigii flavonoid extracts with different forms of human DNA  DST/SJF/LS/2021/389	Dr.Shailja Rajee  M.S. Ramaiah University of Applied Sciences, Bengaluru
12.	Probiotics for controlling post-harvest diseases of mango varieties in Palakkad, Kerala  DST/SJF/LS/2021/388	Dr.Veena George M  Integrated Rural Technology Centre, Palakkad
13.	Efficacy testing of novel insect trap to reduce the insect pest population in field level  DST/SJF/LS/2021/387	Dr.Krishna Chaitanya Tirunagaru  SVKMS NMIMS School of Agricultural Sciences And Technology, Shirpur
14.	A Multiscale Approach to Resolve the 3D Landscape of Transcription Linked Chromatin Organization  DST/SJF/LS/2021/386	Dr.Arnab Bhattacharjee  Jawaharlal Nehru University, New Delhi
15.	Structural, mechanistic and pharmacological investigation of inhibitory neurotransmitter transporters  DST/SJF/LS/2021/385	Dr.Aravind Penmatsa  Indian Institute of Science, Bengaluru
16.	Regenerative potential and therapeutics efficacy of Wharton's Jelly - Derived Mesenchymal Stromal Cells WJ-derived MSCs to repair Critical Limb Ischemia CLI  DST/SJF/LS/2021/384	Dr.Siddikuzzaman  International Institute of Innovation and Technology, Kolkata
17.	Black Soldier Fly a Sustainable Biowaste Management to Protein Rich Feed  DST/SJF/LS/2021/383	Dr.Hanish Mohammed C H  Integrated Rural Technology Centre, Palakkad

18.	Comprehensive study of Epithelial stromal interaction protein -1 EPSTI-1 and its impact on human breast cancer an integrative approach  DST/SJF/LS/2021/382	Dr.Apexa  The Gujarat Cancer And Research Institute (GCRI), Ahmedabad
19.	Implicit Sensorimotor Learning in Humans  DST/SJF/LS/2021/381	Prof.Pratik Mutha  Indan Institute of Technology, Gandhinagar
20.	Effect of various types of organic ingredients on the quality of compost  DST/SJF/LS/2021/380	Dr.Neeraj Dholia  Jayoti Vidyapeeth Women University, Jaipur
21.	Bioconversion of Tannery Waste into Advantageous Multifunctional Products a Conceivable Approach  DST/SJF/LS/2021/379	Dr.B Thazeem  Integrated Rural Technology Centre, Palakkad
22.	Deciphering the role of nanocarriers in molecular targeting for attainment of synergistic effect of multidrug in treatment of basal cell carcinoma BCC  DST/SJF/LS/2021/378	Dr.Sunita Minz  Indira Gandhi National Tribal University, Amarkantak
23.	Cell Selective Mitochondriotropic Carrier System for effective treatment of Migraine  DST/SJF/LS/2021/377	Dr.Aakanchha Jain  National Institute of Pharmaceutical Education and Research Ahmedabad, Gandhinagar
24.	Identification and development of engineered antibody for overexpressed cancer antigen targeted therapeutics  DST/SJF/LS/2021/376	Prof.Kandasamy Saravanakumar  Saveetha Dental College, Saveetha Institute of Medical and Technical Sciences, Chennai
25.	Investigation of the origin of Type-II Diabetes Mellitus and development of herbal therapeutics for its management  DST/SJF/LS/2021/375	Dr.Vineet Mehta  Govt. College of Pharmacy, Shimla
26.	Antioxidant role of Superoxide dismutase SOD against Fluoride induced oxidative stress in Vigna radiata L. and its possible involvement in enrichment of Symbiotic Relationship.  DST/SJF/LS/2021/374	Dr.Khushbu Verma  Jayoti Vidyapeeth Women University, Jaipur
27.	Interaction between arithmetical disabilities and psychological factors in adults  DST/SJF/LS/2021/373	Dr.Anjana Prusty  SR Engineering College, Warangal Urban

28.	Molecular targeting of IL17A-TH17 Isolation and characterization of selective inhibitor/s from fungal endophytes as therapeutics to curb Lung Cancer  DST/SJF/LS/2021/372	Dr.Lokesh Gambhir  Suresh Gyan Vihar University, Jaipur
29.	Morphological Screening and Molecular Characterization of Resistance Gene in Diamondback Moth, Plutella Xylostella Lepidoptera Plutellidae.  DST/SJF/LS/2021/371	Dr.D Abirami  Sri GVG Visalakshi College For Women, Udumalpet
30.	High-throughput determination of the neural basis of olfactory preference  DST/SJF/LS/2021/370	Dr.Nitin Gupta  Indian Institute of Technology, Kanpur
31.	Evolving powdery mildew resistant varieties using AB-QTL mapping in chili Capsicum annum L.  DST/SJF/LS/2021/369	Dr.G Kranthi Rekha  Dr.Y.S.R Horticultural University, West Godavari District
32.	Reconstructing the human population history of South Asia using ancient genomics.  DST/SJF/LS/2021/368	Dr.Niraj Rai  Birbal Sahni Institute of Palaeosciences, Lucknow
33.	Development of folate coated nanoemulsion system to target drug resistant cancer stem cells by combinational delivery of Paclitaxel and Quercetin in b  DST/SJF/LS/2021/367	Dr.Pramod Kumar Gautam  All India Institute of Medical Sciences, New Delhi
34.	Understanding the role of Dynamin-related proteins DRPs in mitochondrial remodeling and inter-organelle communication in human malaria parasite.  DST/SJF/LS/2021/366	Dr.Niti Kumar  Central Drug Research Institute, Lucknow
35.	Elucidating the role of immunoproteasome to overcome immune evasion in lung cancer progression  DST/SJF/LS/2021/365	Dr.Satyendra Chandra Tripathi  All India Institute of Medical Sciences, Nagpur
36.	Screening for polyhydroxyalkanoate PHA producing bacterial strains from the waste streams of Jalandhar area and scale-up PHA production using a combined treatment of waste stream and industrial wood waste  DST/SJF/LS/2021/364	Dr.Arun Karnwal  Lovely Professional University, Phagwara

37.	Effect of Paclitaxel loaded PLGA alkaline nanoparticles for constructive drug delivery on cancer cells by modulating the tumor micro-environment.  DST/SJF/LS/2021/363	Dr.Vijayan Venugopal  Sri Balaji Vidyapeeth, Puducherry
38.	Complement and acute phase protein signatures as biomarkers in diagnosis and monitoring of treatment response in tuberculosis  DST/SJF/LS/2021/362	Dr.Nancy Hilda J  National Institute for Research In Tuberculosis, Chetput
39.	Combining chemical and genetic approaches for developing climate resilient rice with low-grain arsenic accumulation  DST/SJF/LS/2021/361	Dr.Ashish Kumar Srivastava  Bhabha Atomic Research Centre, Trombay, Mumbai
40.	Pregnancy complications Role of circulating miRNAs as a prediction marker  DST/SJF/LS/2021/360	Dr.Aparna Sykam  Society for Health Allied Research and Education, Hyderabad
41.	Nutra- Nano Nanotechnology in Nutraceuticals Bridging the Gap between Food Medicine  DST/SJF/LS/2021/359	Dr.Munija Pancheddula  Vision College of Pharmaceutical Sciences and Research, Boduppal
42.	Targeted nucleic acid therapy for regulating cardiomyocyte proliferation and apoptosis, stimulation of neovascularization and suppression of inflammatory response to regenerate myocardium post-myocardial infarction  DST/SJF/LS/2021/358	Dr.Virendra Gajbhiye  Agharkar Research Institute, Pune
43.	Unravelling the pathway of interferon- and interferon- and its gene expression profiling in COVID-19 patients having type 2 diabetes mellitus  DST/SJF/LS/2021/357	Dr.Haamid Bashir  Government Medical College, Srinagar
44.	Discovery of novel antibacterial agents against ESKAPE pathogens by targeting bacterial central metabolism using rational structure-based approach.  DST/SJF/LS/2021/356	Dr.Pradeep Sharma  All India Institute of Medical Sciences, New Delhi

45.	Unravelling the Climatic Influence on the Harmful Algal Blooms Along the South West Coast of India- An Ecophysiological Approach  DST/SJF/LS/2021/355	Dr.Lathika  Cochin University of Science and Technology, Kochi
46.	Understanding extracellular electron transfer mechanisms in extreme microorganisms with implications to biocorrosion, mineral cycling, interspecies electron transfer processes, and electrochemistry-driven biotechnologies  DST/SJF/LS/2021/354	Dr.Sunil Anil Patil  Indian Institute of Science Education and Research, Mohali
47.	Fabrication and Characterization of siRNAs Loaded Electrospun Soy Protein Isolate/Silk Fibroin Based Nanofibrous Matrices and Suspensions Towards Nanofiber-based Sustained and Targeted Anticancer siRNA Delivery System for Skin Melanoma.  DST/SJF/LS/2021/353	Dr.Sanjeev Kumar Mahto  Indian Institute of Technology-BHU, Varanasi
48.	Computational modeling of visual number sense within a fully connected brain model  DST/SJF/LS/2021/352	Dr.Rakesh Sengupta  S R Engineering College, Hanamkonda
49.	Study to evaluate serum lymphotoxin-alpha levels for a possible predictable cerebral malaria marker by comparing Plasmodium-infected individual blood samples.  DST/SJF/LS/2021/351	Dr.Prabhakar  Gandhi Institute of Technology and Management, Visakhapatnam
50.	Unraveling the “supra-physiological” hematopoietic events during pregnancy Unearthing the holy grail of stem cell expansion  DST/SJF/LS/2021/350	Dr.Satish Khurana  Indian Institute of Science Education and Research, Thiruvananthapuram
51.	Metabolic Engineering and Synthetic Biology Approach for Value Added Biomolecules Generations from Lignocellulosic Biomass  DST/SJF/LS/2021/349	Dr.Dipankar Ghosh  JIS University, Kolkata
52.	Targeting transcription factors in cancer through self-assembled DNA nanostructures  DST/SJF/LS/2021/348	Dr.Umakanta Subudhi  CSIR Institute of Minerals and Materials Technology, Bhubaneswar

53.	Novel small organic molecules synthesis by asymmetric transfer hydrogenation  DST/SJF/LS/2021/347	Dr.Hemchandra Keshav Chaudhari  Institute of Chemical Technology, Mumbai
54.	Investigating Ayurvedic prakriti through molecular approaches  DST/SJF/LS/2021/346	Dr.Neha Garg  Banaras Hindu University, Varanasi
55.	Investigating the molecular links between flaviviral diseases with Diabetes, Cancer, and Neurodegenerative diseases using protein co-aggregation and amyloid perspectives  DST/SJF/LS/2021/345	Dr.Rajanish Giri  Indian Institute of Technology-Mandi
56.	Nanocurcumin complexed silver doped copper nanoparticles Preparation and pharmacological evaluation of their Anti-arthritis activity  DST/SJF/LS/2021/344	Dr.Pallavi Singh Chauhan  Amity University, Gwalior
57.	Development of Novel Therapeutics for Combating Post-traumatic Stress Disorder and Associated Chronic Pain in Military Veterans  DST/SJF/LS/2021/343	Dr.Vinod Tiwari  Indian Institute of Technology-BHU, Varanasi
58.	Deciphering Diversity of Exserohilum turcicum and its Management through Host Resistance in Maize  DST/SJF/LS/2021/342	Dr.JADESHA G  University of Agricultural Sciences, Bengaluru
59.	Microbes in the mountains Understanding the role of geography in determining the diversification of freshwater diatoms  DST/SJF/LS/2021/341	Dr.Karthick Balasubramanian  Agharkar Research Institute, Pune
60.	Development of Novel Microbial Consortium as Biocontrol Agents for Economically Important Crops  DST/SJF/LS/2021/340	Dr.Ajar Nath Yadav  Eternal University, Baru Sahib, Rajgarh
61.	Biomimetic synthesis of Cisplatin Loaded Nanoparticles as a potent Drug for Antineoplastic Activity  DST/SJF/LS/2021/339	Dr.Asha Singh  Amity University, Gwalior

62.	Exploring the antimicrobial and anti-adhesive potentials of pectin and modified pectin derived from pectin rich agro waste  DST/SJF/LS/2021/338	Dr.Tingirikari Jagan Mohan Rao  National Institute of Technology, Tadepalligudem
63.	Identification and utilization of efficient Rubisco variants to increase leaf photosynthetic efficiency  DST/SJF/LS/2021/337	Dr.Aashish Ranjan  National Institute of Plant Genome Research (NIPGR), New Delhi
64.	Establishment of next-generation sequencing data analysis platform for applications in source detection and emerging virus surveillance  DST/SJF/LS/2021/336	Dr.Sridhar  Madurai Kamaraj University, Palkalai Nagar, Madurai
65.	Climatic and anthropogenic stressors affecting the sustenance of native bee populations in different ecosystems Risk and impact assessment  DST/SJF/LS/2021/335	Dr.Pavithra P Nayak  Environmental Management & Policy Research Institute (EMPRI), Bengaluru
66.	Formulation and optimization of novel formulation of Tinospora cordifolia extract as an adjuvant therapy to target the neurodegenerative pathway in Alzheimer's disease AD  DST/SJF/LS/2021/334	Dr.Gifty M Jojo  Prime College of Pharmacy, Palakkad
67.	Magical Impact of Herbal Medicine to Pregnant Women  DST/SJF/LS/2021/333	Dr.Karabi Biswas Podder  Mayakantho, Antpur, West Bengal
68.	Neural mechanisms that causally mediate visuospatial attention  DST/SJF/LS/2021/332	Prof.Sridharan Devarajan  Indian Institute Of Science, Bengaluru
69.	Development of consolidated bioprocessing thermotolerant yeast for ethanol production from pretreated crop residues  DST/SJF/LS/2021/331	Dr.Sachin Kumar  Sardar Swaran Singh National Institute of Bio Energy, Kapurthala
70.	Enhancing the durability of certain multi-component superalloys through the correlation among growth kinetics, structural defects and creep resistance properties  DST/SJF/LS/2021/330	Dr.Nirmal Kumar Velu  CSIR-Institute of Minerals and Materials Technology, Bhubaneswar



71.	Attenuation of Arsenite AsIII-mediated stress by synergistic interaction of Silicon and Nitric oxide in <i>Raphanus sativus</i> L.  DST/SJF/LS/2021/329	Dr.Dhriti Kapoor  Lovely Professional University, Phagwara
72.	Search for fingerprint Deciphering the genetic signature correlating <i>Chlamydia trachomatis</i> infection to cancer pathogenesis and prevalence in India  DST/SJF/LS/2021/328	Dr.Karthika Rajeeve  Rajiv Gandhi Centre For Biotechnology (RGCB), Thiruvananthapuram
73.	Deciphering the role of rhizobial symbiosis associated genes in <i>Lotus japonicus</i> in water scarce environment  DST/SJF/LS/2021/327	Dr.Sudipta Kumar Mohanty  Padmashree Institute of Management and Sciences, Bengaluru
74.	Exploring the Marine Realm for Novel Antimicrobial Peptides Discovery and Applications  DST/SJF/LS/2021/326	Dr.Swapna P Antony  Cochin University of Science and Technology, Kochi
75.	Gastroprotective activity and an adjunct to PPIs using fractionate extract of medicinal plant by in vitro bioassay analysis and chronic ulceritis studies in vivo  DST/SJF/LS/2021/325	Prof.R Kannadhasan  Sri Venkateswara College of Pharmacy, Chittoor
76.	Assessing the soil environmental quality of vine yards under intensive grape growing regions of Tamil Nadu and strategies to improve grapes quality  DST/SJF/LS/2021/324	Dr.Parameswari  Tamil Nadu Agricultural University, Coimbatore
77.	Taxonomy, biogeography and conservation status of endemic genera and species of Apiaceae in India  DST/SJF/LS/2021/323	Dr.Manudev KM  St. Joseph's College (Autonomous), Devagiri, Kozhikode
78.	Multi-OMICS strategies for the development of therapeutic approach for oral cancer through targeting autophagy-metabolic axis  DST/SJF/LS/2021/322	Dr.Dhruv Kumar  Amity Institute of Molecular Medicine & Stem Cell Research, Amity University, Noida
79.	Intratumoral Heterogeneity Resolved Personalized Treatment Recommendation Using Single Cell Gene Expression Data  DST/SJF/LS/2021/321	Dr.Debarka Sengupta  Indraprastha Institute of Information Technology, New Delhi

80.	Decipher the role of Chemical modifications of Non-Coding RNAs in genome instability and 3D nuclear organization  DST/SJF/LS/2021/320	Dr.Pankaj Kumar Giri  South Asian University, Chanakyapuri Delhi
81.	Probing the Cellular Organisation of Ribosome Biogenesis in Bacteria  DST/SJF/LS/2021/319	Dr.B Anand  Indian Institute of Technology,Guwahati
82.	Antimicrobial Potential of Mucins a Compressive Study in the Molluscan Species from Western Region of Maharashtra  DST/SJF/LS/2021/317	Dr.Sunil Rangrao Londhe  Bharati Vidyapeeth's Matoshri Bayabai Shripatrao Kadam Kanya Mahavidyalaya, Kadegaon
83.	Taxonomic and phylogenetic studies on macro lichens of the family Physciaceae from India  DST/SJF/LS/2021/316	Dr.Gaurav Kumar Mishra  National Botanical Research Institute, Lucknow
84.	Unraveling the molecular mechanism of LncRNA-RoR involvement in glioblastoma  DST/SJF/LS/2021/315	Dr.Amit Kumar Pandey  Amity University Gurgaon
85.	Development of standardized and effect-optimized herbal extract of Ipomoea mauritiana Jacq. for Alzheimer's disease  DST/SJF/LS/2021/314	Dr.Sulaiman C T  Arya Vaidya Sala Kottakkal, Malappuram
86.	Exploring the causes of Jelly seed formation in mango and its management through different approaches  DST/SJF/LS/2021/313	Dr.Sharad Kumar Dwivedi  Central Institute for Subtropical Horticulture, Lucknow
87.	Development of microfluidic, in-vitro inner blood retinal barrier iBRB model as a preclinical tool for diabetic retinopathy  DST/SJF/LS/2021/312	Dr.Prajakta Dandekar Jain  Institute of Chemical Technology, Mumbai
88.	Overruled Drug Resistance Effect in Chemotherapy via Plant Derived Riboflavin Nanoparticles  DST/SJF/LS/2021/311	Dr.Sandesh Chibber  Rai University, Ahmedabad
89.	Using system biology approach for assessing novel microbial metabolites as molecular modulators of plant a step forward in understanding advance plant-microbe interaction  DST/SJF/LS/2021/310	Dr.Dweipayan Goswami  Gujarat University, Navrangpura, Ahmedabad

90.	Synthesis, characterization and pre-clinical assessment of Tetrabenazine encapsulated Polyamidoamine dendrimers PAMAM for CNS targeted delivery in Huntington's disease  DST/SJF/LS/2021/309	Dr.Prashant Kesharwani  Jamia Hamdard, New Delhi
91.	Role of circmiRs and metasmiRs in the development and progression of breast cancer  DST/SJF/LS/2021/308	Dr.Rupal Tripathi  Rajiv Gandhi Cancer Institute and Research Centre, New Delhi
92.	Preparation and Evaluation of LMW Chondroitin and Dermatan on heavy metal induced cognitive impairment in hippocampal slices of mice brain  DST/SJF/LS/2021/307	Dr.Repaka Naga Kishore  Geethanjali College of Pharmacy, Secunderabad
93.	Aqua-Organo-Fertilization for enhancing soil productivity and water use efficiency in arid and semi-arid regions of India  DST/SJF/LS/2021/306	Dr.Kumara B H  University of Agricultural Sciences, Dharwad
94.	Exploration of nutritional potential of Potato A future staple food crop  DST/SJF/LS/2021/305	Dr.Pinky  Central Potato Research Institute, Shimla
95.	Metagenomics of sewage sludge and sewage water sample for characterization of heavy metal resistant gene pool and its exploration for heavy metal bioremediation  DST/SJF/LS/2021/304	Dr.Ravindra Soni  Indira Gandhi Krishi Vishwavidyalaya, Raipur
96.	Mapping Oxidative Stress Pathways in Mammalian Systems Using an Integrated Chemical Proteomics and Metabolomics Approach  DST/SJF/LS/2021/303	Dr.Siddhesh S Kamat  Indian Institute of Science Education and Research, Pune
97.	Study of effect of okra mantra on the growth and development of Solanum melongena L  DST/SJF/LS/2021/302	Dr.Y Chandrakala  Jayoti Vidyapeeth Women University, Jaipur
98.	Bioprospecting of Pigments from Cultivable Deep-Sea Pigmented Bacteria for Industrial Applications  DST/SJF/LS/2021/301	Dr.Chatragadda Ramesh  CSIR-National Institute of Oceanography, Dona Paula

99.	Assessment of Biodiversity with special emphasis to small carnivores in the Nahagarh Wildlife Sanctaury of Rajasthan state in Context of Climate Change  DST/SJF/LS/2021/300	Dr.Abinash Parida  Jyoti Vidyapeeth Women's University, Jaipur
100.	Modulation of plant kinases activity through phytohormones for fruit yield improvement  DST/SJF/LS/2021/299	Dr.Jigna G Tank  Saurashtra University, Rajkot