

## SwarnaJayanti Fellowships Scheme- 2019-20

### Applications Received from Eligible Candidates-Life Science

(Applicant may inform if there is any mistake or provide missing information to [jacob@nic.in](mailto:jacob@nic.in) & [seena.raju1@gov.in](mailto:seena.raju1@gov.in) before 25<sup>th</sup> May, 2020)

S.No	Title of the Proposed Project Proposal/ Temporary File No.	Applicant Name and Address
1.	CRISPR/Cas-mediated editing of ODAP biosynthesis pathway related genes for developing $\hat{I}^2$ -ODAP free grasspea <i>Lathyrus sativus</i> L.  DST/SJF/LS/2020/166	Dr. Neetu Singh Kushwah  ICAR-Indian Institute of Pulses Research, Kanpur Uttar Pradesh-208024
2.	Navigating the functional roles of Voltage Gated Anion Channels in regulating bull sperm fertilizing competence.  DST/SJF/LS/2020/168	Dr. Dilip Kumar Swain  U P Pt. Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya Evam Gau Anusandhan Sansthan (DUVASU) Near Civil lines, Mathura Uttar Pradesh-281001
3.	Role of voltage gated T-type calcium channels in triple negative breast cancer from in vitro cell culture to in vivo zebrafish xenotransplantation  DST/SJF/LS/2020/175	Dr. Anamika Bhargava  Indian Institute of Technology-Hyderabad Kandi, Sanga Reddy, Hyderabad Telangana-502285
4.	Enhancing sheath blight disease tolerance in rice  DST/SJF/LS/2020/176	Dr. Gopaljee Jha  National Institute Of Plant Genome Research- (NIPGR) Aruna Asaf Ali Marg, P.O. Box No. 10531 New Delhi, Delhi-110067
5.	Valorization of composite millets and legumes for sustainable next generation vegan protein, hydrolysate and bioactive ingredient "ProVega"  DST/SJF/LS/2020/180	Dr. Mahesh Gupta  Institute of Himalayan Bioresource Technology Post Box. No. 06, Palampur Himachal Pradesh-176061
6.	Decoding the catalog of tRNA-like molecules in Bread wheat  DST/SJF/LS/2020/181	Dr. Santosh Kumar Upadhyay  Panjab University, Chandigarh Sector 14, Chandigarh-160014

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7.	Molecular Mechanisms Shaping Environment Sensing in Bacteria - Linking Microscopic Energetics and Dynamics to Stress and Pathogenic Response  DST/SJF/LS/2020/182	Dr.Athi Narayanan N  Indian Institute of Technology-Madras, Chennai Tamilnadu-600036
8.	In silico Design, Synthesis and Pharmacological Screening of Some Nitrogenous Compounds as Thymidylate Synthase Inhibitors for Anticancer Activity  DST/SJF/LS/2020/187	Dr.Amit Nerkar  Late N B Chhabada Institute of Pharmacy Survey No. 259, Gulmohar Colony, Tal. Jaoli, Dist. Satara, Raigaon Maharashtra-415020
9.	Induced mutagenesis for elite photo-insensitive lines with high yield and oil in sesame Sesamum indicum.L  DST/SJF/LS/2020/191	Dr.A B M Sirisha  Acharya N G Ranga Agricultural University(ANGRAU) Lam Guntur Andhra Pradesh-522034
10.	Real-time evaluation of spatio-temporal fingerprints of nanomachinery involved in the early onset of Alzheimer's Disease at an excitatory synapse  DST/SJF/LS/2020/195	Dr.Deepak Nair  Indian Institute of Science C. V. Raman Road Bangalore Karnataka-560012
11.	Rapid multiplication of Sugarcane via somatic embryogenesis using Temporary Immersion Bioreactor  DST/SJF/LS/2020/196	Dr.PV Padmavathi  Acharya N G Ranga Agricultural University(ANGRAU) Lam Guntur Andhra Pradesh-522034
12.	Discovering new reader proteins for histone citrullination and arginine methylation and their epigenetic functions  DST/SJF/LS/2020/198	Dr.Arunkumar Dhayalan  Pondicherry University R.V.Nagar, Kalapet, Puducherry-605014
13.	Metagenomic Profiling of Viromes Associated with Aquaculture Systems  DST/SJF/LS/2020/201	Dr.Swapna P Antony  Cochin University of Science and Technology, Cochin University P. O., Kochi Kerala-682022
14.	Identification and characterization of molecular factors that establish phage infection in mycobacteria  DST/SJF/LS/2020/202	Dr.Vikas Jain  Indian Institute of Science Education and Research-Bhopal Bhopal Bypass Road, Bhauri, Bhopal Madhya Pradesh-462066

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15.	<p>Insights into the amyloid like curli fibres in biofilm stabilization in marine bacteria and development of biosensors for detection and treatment of polycyclic aromatic hydrocarbons and heavy metals containing wastewater by membrane-aerated biofilm reactor</p> <p>DST/SJF/LS/2020/207</p>	<p>Dr.Surajit Das</p> <p>National Institute of Technology-Rourkela Dist- Sundargarh Rourkela Odisha-769008</p>
16.	<p>Molecular Bioenergetics and Apoptosis Regulation by Human Mitochondrial VDAC</p> <p>DST/SJF/LS/2020/210</p>	<p>Dr.Radhakrishnan Mahalakshmi</p> <p>Indian Institute of Science Education and Research-Bhopal Bhopal Bypass Road, Bhauri, Bhopal Madhya Pradesh-462066</p>
17.	<p>A study on epigenetic modification and therapeutic potential of antioxidant drugs in neurodegenerative diseases special reference to organochlorine pesticide OCPs exposure</p> <p>DST/SJF/LS/2020/211</p>	<p>Dr.Chandra Shekhar Yadav</p> <p>Vivekananda Global University, Sector-36, NRI Road, Sisyawas, Jagatpura, Jaipur Rajasthan-303012</p>
18.	<p>Prognosis and Identification of Drug Targets for Small Cell Lung Cancer</p> <p>DST/SJF/LS/2020/212</p>	<p>Dr.Md Imtaiyaz Hassan</p> <p>Jamia Milia Islamia Central University Jamia Nagar New Delhi Delhi-110025</p>
19.	<p>Effect of heat stress on physiological, psychological, and biochemical parameters at different climates among individuals working in hot environment " A novel prediction of heat strain in south India</p> <p>DST/SJF/LS/2020/213</p>	<p>Dr.Krishnan</p> <p>Mahatma Gandhi Medical College and Research Institute Pillayarkuppam Puducherry-607402</p>
20.	<p>Study of kisspeptin receptor oligomerization and its functional significance</p> <p>DST/SJF/LS/2020/214</p>	<p>Dr.Antara Banerjee</p> <p>ICMR-National Institute for Research in Reproductive Health J.M. Street, Parel, Mumbai Maharashtra-400012</p>
21.	<p>Immune Modulation of Host Immune Response to Mitigate the Impact of Antibacterial Drug Resistance in Endophthalmitis</p> <p>DST/SJF/LS/2020/215</p>	<p>Dr.Joveeta</p> <p>L V Prasad Eye Institute, Road no 2, Banjara Hills Hyderabad Telangana-500034</p>

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22.	Development of novel hi-fidelity cytosine base editors for precise single nucleotide alteration and their use for developing multiple-herbicide tolerant rice variety.  DST/SJF/LS/2020/216	Dr.Kutubuddin Ali Molla  ICAR-National Rice Research Institute Cuttak Odisha -753006
23.	Uniqueness of indigenous transitional cow fed on selected immunomodulatory herbs  DST/SJF/LS/2020/217	Dr.Muneendra Kumar  U P Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya Evam Go Anusandhan Sansthan (DUVASU), Mathura Uttar Pradesh-281001
24.	Unravelling the novel role of HAT protein TIP60 in epigenetic regulation of wound healing to understand the governing molecular mechanisms for possible therapeutic intervention  DST/SJF/LS/2020/218	Dr.Ashish Gupta  Shiv Nadar University NH-91, Chithera, Tehsil Dadri Uttar Pradesh-201314
25.	Functional and molecular characterization of crosstalk signals in co-culture of cell lines  DST/SJF/LS/2020/219	Prof.Indu Sharma  Panjab University, Sector 14, Chandigarh Chandigarh-160014
26.	Augmentation and standardization of production management for Black caraway/ Black Zeera Bunium persicum in Ladakh  DST/SJF/LS/2020/220	Dr.Anil Kumar  Sher E Kashmir University of Agricultural Sciences And Technology of Kashmir, Main Campus, Shalimar Srinagar Jammu and Kashmir-190025
27.	QTL mapping and identification of candidate genes for Fusarium wilt resistance in brinjal Solanum melongena L.  DST/SJF/LS/2020/224	Dr.Partha Saha  Indian Agricultural research Institute, Hill Side Road, Pusa, New Delhi Delhi-110012
28.	Systematic phytopharmacological investigation of selected medicinal plants for Osteoarthritis  DST/SJF/LS/2020/225	Dr.Latha S  Sri Ramachandra Institute of Higher Education and Research Institute No-1, Ramachandra Nagar, Porur, Chennai Tamilnadu-600116
29.	Understanding the cross talk between the host and the pathogen A way to identify the novel biomarker for the diagnosis of Japanese encephalitis virus infection  DST/SJF/LS/2020/226	Dr.Sachin Kumar  Indian Institute of Technology-Guwahati Guwahati Assam-781039

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30.	Unraveling key enzymes for triterpene biosynthesis in <i>B. serrata</i> towards the development of a sustainable process for antiinflammatory drug production  DST/SJF/LS/2020/228	Dr.Sumit Ghosh  CSIR-Central Institute of Medicinal and Aromatic Plants, CIMAP P.O,Near Kukrail Picnic Spot Lucknow Uttar Pradesh-226015
31.	Isolation of <i>Scardovia wiggisae</i> by anaerobic culture and molecular diagnosis in children with early childhood dental caries in rural and urban population of Kanchipuram District.  DST/SJF/LS/2020/232	Dr.Jada Sunil Kumar  Sri Balaji Vidyapeeth Pillayarkuppam Mahatma Gandhi Medical College and Research Institute (MGMCRI) campus Puducherry -607402
32.	Modeling human liver microarchitecture and cellular physiology in vitro using 3D bioprinting for drug toxicity and high throughput drug screening applications  DST/SJF/LS/2020/233	Prof.Biman B Mandal  Indian Institute of Technology-Guwahati Guwahati Assam-781039
33.	Microglial remodeling of actin network for P2Y12-receptor-mediated phagocytosis of Tau oligomers  DST/SJF/LS/2020/235	Prof.Subashchnadrase Chinnathambi  CSIR-National Chemical Laboratory, Dr. Homi Bhabha Road, Pune Maharashtra-411008
34.	Nanoencapsulation of seaweed -essential oil in sodium alginate nanofibers to promote a highly transparent antimicrobial wound dressing material  DST/SJF/LS/2020/237	Dr.L Muthulakshmi  Kalasalingam Academy of Research and Education Kalasalingam University Anand Nagar, Krishnankoil Tamilnadu-626126
35.	Therapeutic induction of translational readthrough across muscular dystrophy-causing premature stop codon of dystrophin DMD mRNA  DST/SJF/LS/2020/238	Dr.Sandeep Eswarappa  Indian Institute of Science C. V. Raman Road Bangalore Karnataka-560012
36.	The role of nitrite and nitric oxide in hypoxia sensing, signaling and flooding tolerance in plants  DST/SJF/LS/2020/239	Dr.Jagadis Gupta Kapuganti  National Institute of Plant Genome Research (NIPGR) Aruna Asaf Ali Marg, P.O. Box No. 10531 New Delhi Delhi-110067

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37.	Development of exosome-based tetravalent vaccine formulation against Dengue Virus  DST/SJF/LS/2020/240	Dr.Nooruddin  University of Hyderabad Prof. C.R Rao Road Central University Hyderabad P.O.,Hyderabad Telangana-500046
38.	Deciphering the Potential Crosstalk Between $\alpha$ -Synuclein and the Intrinsically Disordered Nuclear Pore Complex Proteins (FG-Nucleoporins) in Parkinson's Disease  DST/SJF/LS/2020/241	Dr.Timir Tripathi  North Eastern Hill University (NEHU) Mawlai, Shillong Meghalaya-793022
39.	Single-cell level chromatin organization and dynamics as regulators of tissue-specific DNA damage responses, gene expression and cancer development  DST/SJF/LS/2020/242	Dr.Aprotim Mazumder  Tata Institute of Fundamental Research Hyderabad Gopanpally, Hyderabad Telangana-500107
40.	Investigating the SARS-CoV-2 replication complex collaboration among RDRP-Helicase-Mtase and other non-structural proteins.  DST/SJF/LS/2020/243	Dr.Rajanish Giri  Indian Institute of Technology-Mandi Kamand Campus, VPO Kamand, Distt. Mandi Himachal Pradesh-175005
41.	Exploration of novel therapeutic opportunities to combat neurodegenerative proteinopathies  DST/SJF/LS/2020/244	Dr.Sheraz Ahmad Bhat  Sri Pratap College (College of Sciences) Cluster University Srinagar M.A Road, Lal Chowk Srinagar Jammu and Kashmir -190001
42.	Spatial - temporal dynamics of microtubule post-translation modifications  DST/SJF/LS/2020/246	Dr.Minhaj Sirajuddin  Institute for Stem Cell Science and Regenerative Medicine (INSTEM) GKVK - Post Bellary Road, Bangalore Karnataka-560065
43.	Gene regulation in trans  DST/SJF/LS/2020/247	Dr.Kuljeet Singh Sandhu  Indian Institute of Science Education and Research-Mohali Knowledge City, Sector 81, SAS Nagar, PO Manauli Punjab-140306

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44.	Development of Multivalent IgY Antibody based Diagnostics (Dia-MAb) and Therapeutics (Bact-MAb) to Combat Multiple Bacterial Infectious Diseases of Fishes in Aquaculture  DST/SJF/LS/2020/248	Dr.Jayesh Puthumana  Cochin University of Science and Technology, Cochin University P. O., Kochi Kerala-682022
45.	Design, Synthesis and Evaluation of Compounds for Multi-Target Directed Therapy of Alzheimer's Disease  DST/SJF/LS/2020/249	Dr.Harish Kundaikar  Shobhaben Pratapbhai Patel School of Pharmacy and Technology Management, SVKMS NMIMS, Deemed to be University, Vile Parle (West) Mumbai Maharashtra-400056
46.	Performance evaluation of Boer x Marwari goat for enhances meat production of western Rajasthan.  DST/SJF/LS/2020/250	Dr.Asu Singh Godara  Agricultural Research Station Agriculture University Jodhpur Keshwana, Jalore Rajasthan-343001
47.	Elucidation and Therapeutic Exploitation of DNA Repair pathways in Apicomplexan parasite Theileria annulata for identifying New Generation Drug Targets  DST/SJF/LS/2020/252	Dr.Paresh Sharma  National Institute of Animal Biotechnology D. No. 1-121/1, 4th and 5th Floors, Axis Clinicals Building, Opp. to Cine Town, Miyapur, Hyderabad Telangana-500049
48.	A novel approach of peptide mediated targeted delivery of siRNA in the treatment of Glaucoma.  DST/SJF/LS/2020/253	Dr.Kavita Singh  SPP School of Pharmacy and Technology Management, NMIMS University V.L.Mehta Road, Vile Parle (W), Mumbai Maharashtra-400056
49.	Modulation of Host Transsulfuration Pathway TSP by Dietary Methionine Restriction MetR as a novel adjunct therapy for tuberculosis  DST/SJF/LS/2020/254	Dr.Vikram Saini  All India Institute of Medical Sciences, Ansari Nagar Delhi-110029
50.	Study on physicochemical characterization and wound healing efficacy of natural fibers A comparative analysis  DST/SJF/LS/2020/255	Dr.Himadri Kalita  Assam Don Bosco University, Airport Road, Azara, Guwahati Assam -781017

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51.	Understanding butterfly host plant coevolutionary diversification - a multi- disciplinary approach  DST/SJF/LS/2020/257	Dr.Ullasa Kodandaramaiah  Indian Institute of Science Education and Research-Thiruvananthapuram Maruthamala PO, Vithura, Trivandrum Kerala-695551
52.	Path-omics and Machine learning analysis of human infections to decipher molecular pathogenesis and druggability.  DST/SJF/LS/2020/259	Dr.Sreenivas Chavali  Indian Institute of Science Education and Research -Tirupati Rami Reddy Nagar, Karakambadi Road, Mangalam P.O. Tirupati Andhra Pradesh-517507
53.	Biotechnological Interventions for Commercialization of Vigna Khandalensis - A Legume Crop for the Future  DST/SJF/LS/2020/260	Dr.Jaykumar Jagannath Chavan  Yashavantrao Chavan Institue of Science, Sadar Bazzar, Camp Satara Satara Maharashtra-415001
54.	Wildlife co-existence management through evaluating different bioacoustics and bio- repellent to mitigate the crop raiding by nilgai in Western Rajasthan.  DST/SJF/LS/2020/263	Dr.Saresh N V  Agricultural Research Station (Agriculture University Jodhpur) Keshwana, Jalore Rajasthan-343001
55.	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/2020/267	Dr.Virendra Gajbhiye  Agharkar Research Institute G. G. Agarkar Road, Pune Maharashtra-411004
56.	Investigating the mechanistic basis of action by the Mfp Mycobacterium fluoroquinolone resistance proteins operon in Mycobacterium tuberculosis  DST/SJF/LS/2020/268	Dr.Gayathri Pananghat  Indian Institute of Science Education and Research-Pune Dr. Homi Bhabha Road, Pune Maharashtra-411008
57.	Sequential and simultaneous regulation of protein regulators using self-assembled DNA nanostructures  DST/SJF/LS/2020/270	Dr.Umakanta Subudhi  CSIR-Institute of Minerals and Materials Technology Acharya Vihar , Bhubaneswar Odisha-751013



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58.	HoneyBees as Bioindicators for Pesticide Residues & Enhancing the Pomegranate Productivity  DST/SJF/LS/2020/271	Dr.Milind Joshi  Agricultural Development Trust, Baramati Shardanagar, Malegaon Colony, Post Box No.- 35, Tal. Baramati. Dist. Pune Maharashtra-413115
59.	Identification of marker trait associations influencing nitrogen use efficiency in maize and utilization of donor lines in hybrid breeding programme.  DST/SJF/LS/2020/272	Dr.Rumesh Ranjan  Punjab Agricultural University, Ludhiana 10/87, PAU Campus Ludhiana Punjab-141004
60.	Carcinogenic dispute analysis and impurity profiling by using stability & stress degradation method in the selected National list of Essential Medicines (NLEM)  DST/SJF/LS/2020/274	Dr.MR Jeyaprakash  JSS College of Pharmacy, Rocklands, The Nilgiris Ootacamund Tamilnadu-643001
61.	Deciphering The Mechanism of Metallic Boosters as an Innovative Strategy to Deliver Therapeutic Peptides across Intestinal Barrier  DST/SJF/LS/2020/278	Dr.Ratnesh Jain  Institute of Chemical Technology, Nathalal Parekh Road, Near Don Bosco School, Matunga (East), Mumbai Maharashtra-400019
62.	Development of Endophytic Bacillus sp. based bioformulation as natural biocontrol agent against prevalent viruses of selected fruits and vegetables  DST/SJF/LS/2020/279	Dr.Bhim Pratap Singh  National Institute of Food Technology Entrepreneurship and Management Plot No. 97, Sector 56, HSIIDC Industrial Estate, Kundli, Sonipat Haryana-131028
63.	Gel Depot Mediated Nanomicellar Delivery For Efficient Targeting And Management Of Metastatic Tumor  DST/SJF/LS/2020/283	Dr.Aravind Kumar Rengan  Indian Institute of Technology-Hyderabad Kandi, Sanga Reddy, Hyderabad Telangana-502285
64.	Repurposing of Glitazones, approved anti-diabetic drug and PPAR $\gamma$ agonists, as a therapeutic tool for the management of triple negative breast cancer  DST/SJF/LS/2020/284	Dr.Jeena Gupta  Lovely Professional University, Delhi - Jalandhar National Highway, Phagwara, Punjab-144411
65.	Development of graphene and graphene like materials from the waste biomass and other wastes An applications for the removal of organic and inorganic pollutants from the water and wastewater  DST/SJF/LS/2020/285	Dr.Jiwan Singh  Babasaheb Bhimrao Ambedkar University Vidya Vihar Raebareli Road, Lucknow Uttar Pradesh-226025

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66.	Designing plant type and architecture of chickpea and mungbean for conservation agriculture and higher phosphorus use efficiency  DST/SJF/LS/2020/286	Dr.Chaitanya Prasad Nath  ICAR-Indian Institute of Pulses Research, Kanpur Uttar Pradesh-208024
67.	The synergistic effects of lead and nicotine induced genomic instability results in cell cycle arrest and induction of apoptosis in neuroblastoma cells  DST/SJF/LS/2020/287	Dr.Narendra Maddu  Sri Krishnadevaraya University Anantapuramu Andhra Pradesh-515003
68.	Understanding role of autophagic lysosomal reformation in autophagic cell death  DST/SJF/LS/2020/288	Dr.Sujit Kumar Bhutia  National Institute of Technology-Rourkela Rourkela Odisha-769008
69.	Identification and functional characterization of genetic variants underlying risks for uterine leiomyoma in eastern UP and western Bihar population  DST/SJF/LS/2020/290	Dr.Pawan Kumar Dubey  Banaras Hindu University Varanasi Uttar Pradesh-221005
70.	Chaperon tumor peptide complex Impact on breast cancer specific tumor promoting immune cells  DST/SJF/LS/2020/291	Dr.Prmaod Kumar Gautam  All India Institute of Medical Sciences, Ansari Nagar Delhi-110029
71.	Exploitation of soil microorganisms as bio-resource for bioremediation of pesticides in the environment  DST/SJF/LS/2020/293	Dr.Chennappa  Ramaiah University of Applied Sciences University House, Gnanagangothri Campus New Bel Road, MSR Nagar, Bangalore Karnataka-560054
72.	Use of Triple Negative Breast Cancer TNBC patient derived 3D-organoid models to study drug response and resistance.  DST/SJF/LS/2020/296	Dr.Nandini Verma  Advanced Centre for Treatment Research and Education in Cancer TMC, Sector 22, Kharghar, Navi Mumbai Maharashtra-410210