



GRANTS & PARTNERSHIPS

**NEW EXTRAMURAL
GRANTS**

New Extramural Grants 2022-23					
S No	Name of the Project & Project Code	Name of PI	Funding Agency	Period	Funds Received in 2022-23 (in Lakhs INR)
1	Investigations of Structure-Reactivity Patterns of First-Row Late Transition Metal-Boryl/Silyl Complexes CSIR-01(3025)/21/EMR-II	Dr. Subrata Kundu	CSIR	20.10.2021 to 19.10.2024	6.33 (1st Instalment)
2	DST-Bioenergy & H2 MAP DST/TMD/IC-MAP/2K20/02 [C]	Dr. Deepshikha Jaiswal Nagar	DST	16.03.2022 to 15.03.2025	36.09 (1st Instalment)
3	DST-Materials MAP DST/TMD/IC-MAP/2K20/03 [C]	Dr. Manoj A G Namboothiry	DST	16.03.2022 to 15.03.2025	90.43 (1st Instalment)
4	Growth of Nuclear Radiation Sensitive Single Crystals through Bridgman Technique DRDO-DLJ/TC/1025/1/73	Dr. Ramesh Chandra Nath	DRDO	29.04.2022 to 28.09.2023	11.72
5	BEEscape: Investigating landscape level pesticide use and health of native, social bees SERB-SPR/2021/000510	Dr. Hema Somanathan	SERB	30.05.2022 to 29.05.2025	37.3
6	On the central idempotents of algebras arising from Schur-Weyl Duality and the invariant theory of certain groups SERB-SPG/2021/004200	Dr. Geetha T	SERB	10.06.2022 to 09.06.2025	7.51
7	Studies on the feasibility of electrochemical oxidation of 5-hydroxymethylfurfural to furan dicarboxylic acid TREMERA GmbH, Germany	Dr. A Muthukrishnan	OTHERS	08.06.2022 to 07.12.2022	9.84
8	Chief Minister's Navakerala Postdoctoral Fellowship (CMNPF) KSHEC-A1/144(C)/CMNPF	Dr. Neema P M	KSHEC	20.06.2022 to 19.06.2024	2.0
9	Chief Minister's Navakerala Postdoctoral Fellowship (CMNPF) KSHEC-A1/144(C)/CMNPF	Dr. Hijas K M	KSHEC	14.07.2022 to 13.07.2024	0.25
10	Chief Minister's Navakerala Postdoctoral Fellowship (CMNPF) KSHEC-A1/144(C)/CMNPF	Dr. Aswathi K	KSHEC	04.07.2022 to 03.07.2024	0.25
11	CRISPR Crop Network: Targeted improvement of stress tolerance, nutritional quality and yield of crops by using genome editing ICAR-NASF/BGAM-9021/22-23	Dr. Ravi Maruthachalam	ICAR	16.08.2022 to 15.08.2025	9.86

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12	Neutrophils Mediated Enzymatic Biodegradability of Two-Dimensional MXenes Nanosheets: Effect of Surface Functionalization and BloodSerum Protein Coating SERB-SRG/2022/000291	Dr. Rajendra Kurapati	SERB	27.09.2022 to 26.09.2024	26.74
13	Collective spatiotemporal dynamics of biological soft matter using theory and computation SERB-SRG/2022/000043	Dr. Pushpita Ghosh	SERB	27.09.2022 to 26.09.2024	25.97
14	INSPIRE Faculty Fellowship DST/INSPIRE/04/2020/001105	Dr. Pramitha M	DST	09.09.2021 to 08.09.2026	10.29
15	Chromosomal features governing crossover pathway choice DBT-BT/PR41371/BRB/10/1958/2020	Dr. Nishant K T	DBT	14.09.2022 to 13.09.2025	0 (1st Instalment yet to be received)
16	IKS Internships Program 2022 IKS Internships program 2022 (BGS-2)	Dr. Sandhya Ganesan	OTHERS	01.10.2022 to 31.03.2023	1.88
17	Biomass-Derived Carbon Dots for High-Performance Supercapacitor SERB-TAR/2022/000226	Dr. Sam John	SERB	28.10.2022 to 27.10.2025	3.35
18	Hydraulic targets for better crop growth and productivity under climate change like conditions DBT-RAMALINGASWAMI-BT/RLF/Re-entry/08/2021	Dr. Anirban Guha	DBT	01.11.2022 to 31.10.2027	24.72
19	Defining lysosomal mechanisms of defense against intracellular pathogens SERB-SRG/2022/002157	Dr. Sandhya Ganesan	SERB	04.11.2022 to 03.11.2024	21.90
20	Physiology and metabolism of lysosomal dysfunction in a lysosomal storage disorder causing prosaposin mutation DBT-RAMALINGASWAMY-BT/RLF/Re-entry/54/2021	Dr. Swathi Devireddy	DBT	22.09.2022 to 21.09.2027	24.72
21	INSPIRE Faculty Fellowship DST/INSPIRE FACULTY/BATCH 18/2022	Dr. Nitin Yadav	DST	08.12.2022 to 07.12.2027	7.0
22	INSPIRE Faculty Fellowship DST/INSPIRE FACULTY/BATCH-18/2022	Dr. Prasanth Valayalamkunnath	DST	08.12.2022 to 07.12.2027	22.0
23	Copper-Mediated Nucleophilic and Electrophilic Propargylation Reactions: Asymmetric Synthesis of Various Propargylic Compounds SERB-CRG/2022/002516	Dr. Alagiri Kaliyamoorthy	SERB	09.01.2023 to 08.01.2026	11.96

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24	Atom-Precise Metal Nanocluster and Two-Dimensional Cluster-Assembled Materials for Efficient Electrochemical Nitrogen Reduction Reaction SERB-CRG/2022/000984	Dr. Sukhendu Mandal	SERB	12.01.2023 to 11.01.2026	24.50
25	Thorough investigation of the mechanism of the origin of Gamma-ray burst through first principles, observational interpretation and simulation studies SERB-SRG/2022/000211	Dr. Shabnam Iyyani	SERB	13.01.2023 to 12.01.2025	16.90
26	Synthesis of mimics of collagen, elastin and fibroin via isosteric replacement of amide with triazole SERB-CRG/2022/000568	Dr. K M Sureshan	SERB	13.01.2023 to 12.01.2026	39.87
27	Hybrid numerical schemes for system of hyperbolic conservation laws SERB-MTR/2022/000265	Dr. Asha Kisan Dond	SERB	13.01.2023 to 12.01.2026	2.20
28	Nanofabricated Single Protein Assemblies for Solid-State Bioelectronic Devices SERB-CRG/2022/000584	Dr. Jerry Alfred Fereiro	SERB	18.01.2023 to 17.01.2026	59.05
29	Cyclodextrin tethered polymeric materials for the capture of plant essential oils: Evaluation of its in vitro efficacy as an antimicrobial and cytotoxic agent for biomedical applications SERB-TAR/2022/000048	Dr. Sonia Mol Joseph	SERB	13.10.2022 to 12.10.2025	3.35
30	An Improved Lennard-Jones Formulation for Modeling Adsorption on Graphynes SERB-CRG/2022/006873	Dr. R S Swathi	SERB	31.01.2023 to 30.01.2026	10.83
31	Cancer environment stimuli-responsive DNA nanoparticles: A unique drug delivery vehicle for combination cancer therapy SERB-CRG/2022/002612	Dr. Reji Varghese	SERB	06.02.2023 to 05.02.2026	41.37
32	Existence and qualitative properties of solutions of quasilinear and nonlocal elliptic partial differential equations SERB-MTR/2022/000780	Dr. Dhanya Rajendran	SERB	09.02.2023 to 08.02.2026	2.20
33	Understanding the mutational landscape in different Candida auris clades using a multiprogned approach ICMR-Myco/Adhoc/1/2022-ECD-II	Dr. Nishant K T	ICMR	20.02.2023 to 19.02.2026	21.33

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34	Understanding the effect of stabilizing selection for the timing of adult emergence on circadian clock of <i>Drosophila melanogaster</i> SERB-EEQ/2022/001034	Dr. Nisha N Kannan	SERB	22.02.2023 to 21.02.2026	20.64
35	Interface Engineering of Bi-Sb-Ge Tellurite Superlattices using Atomic Layer Deposition SERB-EEQ/2022/001016	Dr. Vinayak B Kamble	SERB	23.02.2023 to 22.02.2026	43.65
36	Development of AI assisted Versatile Chemical Sensor Array for On-demand End Use SERB-CRG/2022/006973	Dr. Vinayak B Kamble	SERB	02.03.2023 to 01.03.2026	22.20
37	2D Materials/Biopolymer based Broad-Spectrum Antimicrobial Multilayer Coatings: Synergistic Approach to Thwart the Biofilm Formation on the Medical Implants SERB-EEQ/2022/000614	Dr. Rajendra Kurapati	SERB	17.03.2023 to 16.03.2026	29.42
38	Stabilization by sparse controls for system of reaction-diffusion equations with mixed state and control constraints SERB-CRG/2022/006421	Dr. Nagaiyah Chamakuri	SERB	17.03.2023 to 16.03.2026	11.66
39	Understanding the role of energy producing metabolic pathways on hematopoietic emergence in mouse BT/PR30459/MED/31/449/2021	Dr. Satish Khurana	DBT	28.03.2023 to 27.03.2026	0 (1st Instalment yet to be received)
40	Biomass-Derived Carbon Dots for High-Performance Supercapacitor SERB-CRG/2022/006421	Dr. Ram Kumar	SERB	20.02.2023 to 19.02.2028	0 (1st Instalment yet to be received)
41	National Post-Doctoral Fellowship 75/202/KSCSTE	Dr. Arun Kumar G	KSCSTE	13.03.2023 to 12.04.2024	0 (1st Instalment yet to be received)

ON-GOING EXTRAMURAL GRANTS

On-Going Extramural Grants					
Sl. No	Name of the Project & Project Code	Name of PI	Funding Agency	Period	Funds Received in 2022-23 (in Lakhs INR)
1	Elucidating post-transcriptional regulation of circadian behavior in Drosophila WELLCOME TRUST-IA/I/15/2/502329	Dr. Nisha N Kannan	DBT	01.01.2017 to 30.06.2023	17.24
2	AI(I)/AI(III) Lewis Pairs for the Activation of Inert Chemical Bonds CRG/2019/005040	Dr. Ajay Venugopal	SERB	01.01.2020 to 30.06.2023	1.5
3	Devising practically implementable enhanced means of communication with the aid of quantum resources Chanakya Post-Doctoral Fellowship	Dr. Manik Banik (Mentor)	DST	01.04.2022 to 31.03.2023	0 (Relieved from the Institute on 10.06.2022)
4	NBHM Postdoctoral Fellowship	Dr. Arati Shashi	DAE	01.05.2021 to 30.04.2023	5.49
5	JC Bose Fellowship SB/S2/JCB-64/2013	Dr. K George Thomas	SERB	01.06.2019 to 31.05.2024	22.89
6	Application-development of genome editing tools for gene target discovery and understanding regulation of cholesterol metabolism genes RAMALINGASWAMY-BT/RLF/Re-entry17/2015	Dr. N Sadananda Singh	DBT	01.08.2017 to 31.03.2023	4.99
7	Identifying the effect of α -synuclein induced alterations on electrophysiological homeostasis of dopaminergic neurons in Parkinson's disease progression WELLCOME TRUST-IA/E/17/1/503664	Dr. Poonam Thakur	DBT	01.09.2019 to 31.08.2024	12.09
8	Conflict between Replication and Transcription accelerates Mutagenesis and drives Antibiotic Resistance WELLCOME TRUST-IA/I/18/2/504037	Dr. Sabari Sankar Thirupathi	DBT	01.10.2019 to 30.09.2024	20.17
9	INSPIRE Faculty Fellowship DST/INSPIRE/04/2019/00540	Dr. Shabnam Iyyani	DST	01.10.2020 to 30.09.2025	6.77
10	Targeted Editing of Potato Genome to Develop Variety Specific True Potato Seed (TPS) ICAR-NASF/GT-7024/2018-19	Dr. Ravi Maruthachalam	ICAR	01.11.2018 to 31.10.2022	1.46

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11	Understanding the role of Periostin-Itgav interactions in adult and fetal hematopoiesis WELLCOME TRUST-IA/1/15/2/502061	Dr. Satish Khurana	DBT	01.12.2016 to 31.05.2023	31.76
12	Bheja Fry NCBS-INDIABIOSCIENCE OUTREACH GRANTS	Dr. Poonam Thakur	OTHERS	01.12.2021 to 30.11.2022	0
13	Exploring 2D Atomic Crystals for Resistive Switching Based Emerging Artificial Neuromorphic Devices CRG/2021/000567	Dr. Bikas C Das	SERB	02.03.2022 to 01.03.2025	1.5
14	Control and Finite Element Analysis of Cahn-Hilliard-Navier-Stokes system CRG/2021/008278	Dr. Sheetal Dharmatti	SERB	02.03.2022 to 01.03.2025	0
15	NBHM Postdoctoral Fellowship	Dr. Prasanta Kumar Barik	DAE	02.08.2021 to 31.07.2022	0 (Relieved from the Institute on 27.06.2022)
16	Nickel mediated cross-coupling reactions of a - SILYLOXYALKYL - Zinc reagents CSIR-02(0409)/21/EMR-II	Dr. Ramesh Rasappan	CSIR	03.06.2021 to 02.06.2024	0
17	Olfactory cues used in stingless bee foraging-recruitment behavior:behavioral and neuronal perspectives PDF/2020/000943	Dr. Reshma Basak	SERB	04.02.2021 to 03.02.2023	9.63
18	Investigating post-transcriptional regulation of steroidogenic genes during development SR/WOS-A/LS-457/2017 [G]	Dr. Smitha Vishnu	DST	04.03.2019 to 04.09.2022	0.03
19	Design and Synthesis of Pie Extended and Ring- Extended Bis- Macrocyclic and Investigating their Photophysical Properties for Optoelectronic Applications CRG/2019/006303	Dr. Gokulnath Sabapathi	SERB	05.02.2020 to 04.02.2023	0
20	Structural and thermodynamic study of the phase separation of TIA1 in the presence of Tau protien and the influence of the phase separation on protien aggregation CRG/2019/004880	Dr. Vinesh Vijayan	SERB	05.02.2020 to 04.02.2023	2.5



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21	Multifunctional Biodegradable Hybrid Black phosphorous-CaCO ₃ Nanoparticles as a Synergistic Targeted Chemo-photothermal Therapy for Glioblastoma Multiforme DBT-BT/RLF/Re-entry/24/2020	Dr. Rajendra Kurapati	DBT	05.04.2021 to 04.04.2026	0
22	Unravelling the interplay of reorganization energy, driving force and electronic coupling on the rate of electron transfer CRG/2019/002119	Dr. Mahesh Hariharan	SERB	06.02.2020 to 05.02.2023	2.0
23	Plasmonic Chromatography for Multiresidue Pesticide Detection in Spices DST/WOS-B/AFE-20/2021[G]	Dr. T Shyamala	DST	07.01.2022 to 06.01.2025	12.85
24	Infrared Plasmonics of Nanostructured Conducting Oxides for communication and spectroscopic applications CRG/2019/004965	Dr. Joy Mitra	SERB	07.02.2020 to 06.02.2023	0
25	Ramanujan Fellowship RJF/2020/000103	Dr. Joydeb Mandal	SERB	08.03.2021 to 07.03.2026	21.51 (Relieved from the Institute on 23.08.2022)
26	Decoding Neuronal States using Chimera Patterns CRG/2021/000816	Dr. D V Senthil Kumar	SERB	08.03.2022 to 07.03.2025	1.0
27	Schurs Exponent Conjecture MTR/2020/000483	Dr. Viji Z Thomas	SERB	10.02.2021 to 09.02.2024	0
28	Characterization of network structure and homogeneity of N-Doped Graphene activated Natural Rubber Sulfur Vulcanizate TAR/2021/000384	Dr. Rani Alphonsa Jose	SERB	10.12.2021 to 09.12.2024	0
29	High fluorine content DNA micelle: A Universal "OFF/ON" ¹⁹ F-NMR-based probe for the detection of miRNA and Telomerase for cancer diagnosis BT/PR30172/NNT/28/1593/2018	Dr. Reji Varghese	DBT	11.02.2019 to 10.08.2022	1.53
30	Understanding the regulation of kinetochore protein phosphorylation for the activation of spindle assembly check-point CRG/2020/002452	Dr. Tapas Kumar Manna	SERB	11.03.2021 to 10.03.2024	20.0
31	Development of next generation all-solid-state sodium-sulfur batteries for lighting and consumer electronic applications PDF/2020/000209	Dr. Shruti Suriyakumar	SERB	12.01.2021 to 11.01.2023	0

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32	Multi-wavelength Selective Plane Illumination Microscope - with simultaneous magnification at multiple levels: A promising imaging technology for molecular and cellular biology BT/PR30005/MED/32/657/2018	Dr. M Suhesh Kumar Singh	DBT	13.09.2019 to 12.09.2022	0.43
33	INSPIRE Faculty Fellowship DST/INSPIRE/04/2019/001843	Dr. Sooraj K	DST	13.10.2020 to 12.10.2025	0 (Relieved from the Institute on 30.06.2022)
34	Blockade of CXCL-3—CXCR-2 axis normalises tumor vasculature and enhances immune surveillance in triple negative breast cancer TAR/2021/000147	Dr. Suboj Babykutty	SERB	13.12.2021 to 12.12.2024	0
35	DST-Storage MAP DST/TMD/IC-MAP/2K20/01	Dr. M M Shaijumon	DST	14.02.2022 to 13.02.2025	0
36	Energy-Efficient Synaptic Transistors of Two-Dimensional Layered Material EEQ/2021/000810	Dr. Bikas C Das	SERB	14.03.2022 to 13.03.2025	0
37	Thermal Expansion Measurements in a spin $\frac{1}{2}$ Heisenberg antiferromagnet $C_{12}H_{14}CuN_4O_5$ CRG/2021/001262	Dr. Deepshikha Jaiswal Nagar	SERB	14.03.2022 to 13.03.2025	0
38	Microresonator frequency combs in visible: A path to ultrashort pulse generation and spectroscopy CRG/2019/000993	Dr. Ravi Pant	SERB	15.01.2020 to 14.01.2023	3.0
39	Scheme for Promotion of Academic and Research Collaboration (SPARC) SPARC/2018-2019/58/SL [IN]	Dr. Nishant K T	MoE	15.03.2019 to 30.09.2022	0
40	Structure, function and molecular mechanism of transcription regulators in Mycobacterium spp STARS/APR2019/BS/729/FS	Dr. Ramanathan Natesh	MoE	15.05.2020 to 14.05.2024	7.51
41	Photochemical and Electrochemical Processes in Assembled Molecules and Nanomaterials: Implications Field and Coherence in Photovoltaics DST/NM/TUE/EE-01/2019	Dr. K George Thomas	DST	15.11.2021 to 14.11.2025	15.82



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42	Functionality Shuttling via Catalytic Isodesmic Reaction and Its Application in Organic Synthesis SRG/2021/000572	Dr. Basudev Sahoo	SERB	15.12.2021 to 14.12.2023	0
43	Activation of Alkyl Chlorides Driven by Visible Light Titanium Photoredox Catalysis SRG/2021/000834	Dr. Veera Reddy Yatham	SERB	15.12.2021 to 14.12.2023	0
44	Chemistry of Reactive Sulfur and Selenium Species: Elucidating the Routes in Bio(in) organic Signalling and Toxicology CRG/2021/001174	Dr. Subrata Kundu	SERB	15.12.2021 to 14.12.2024	8.0
45	Lithium Battery Testing Momentive Performance Materials (India) Pvt Ltd	Dr. M M Shaijumon	OTHERS	15.12.2021 to	0
46	Non-volatile resistance switching memory on SiC for harsh environment applications CRG/2021/000935	Dr. Kumaragurubaran Somu	SERB	16.03.2022 to 15.03.2025	0
47	Development of porous titania supported Lithium Hydroxide for efficient capture of carbon-di-oxide ISRO/RES/3/861/20-21	Dr. K M Sureshan	ISRO	16.11.2020 to 31.12.2023	0
48	Conductive inorganic-organic hybrid materials for electrochemical applications CSIR-01(3024)/21/EMR	Dr. Sukhendu Mandal	CSIR	17.08.2021 to 16.08.2024	0
49	Palladium and Magnesium based hybrid nanocluster structures for high gravimetric capacity hydrogen storage DST/TMD/HFC/2K18/37 [C] & [G]	Dr. Deepshikha Jaiswal Nagar	DST	17.09.2019 to 16.09.2022	12.0
50	Exploring the active sites of nitrogen and boron containing/doped materials: N ₂ -C-B type active sites for electrocatalytic 4-electron oxygen reduction reaction DST/TMD/HFC/2K18/24[C] & [G]	Dr. A Muthukrishnan	DST	17.09.2019 to 16.09.2023	5.0
51	Terahertz spectroscopic studies of layered 2-D materials CRG/2019/004865	Dr. Rajeev N Kini	SERB	18.01.2020 to 17.07.2023	2.5
52	INSPIRE Faculty Award INSPIRE FACULTY AWARD/ BATCH-13/2017	Dr. Manik Banik	DST	18.04.2018 to 17.04.2023	0 (Relieved from the Institute on 10.06.2022)

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53	Stereoselective Total Synthesis of Atisan Based Diterpenoids Antiquorpenes CRG/2020/003737	Dr. Rajendar Goreti	SERB	18.12.2020 to 17.12.2023	4.5
54	Unraveling the conformational changes during photocyclization of o-arenes by femtosecond time-resolved circular dichorism CRG/2020/000321	Dr. Y Adithya Lakshmana	SERB	18.12.2020 to 17.12.2023	6.0
55	The role of colonic hepatic Tumor Over-expressed Gene (chTOG) in regulation of kinetochore size and fidelity of mitotic chromosome segregation BT/HRD-NBA-NWB/38/2019-20[7]	Dr. Tapas Kumar Manna	DBT	19.02.2020 to 18.02.2023	0
56	Integrating collective behaviour with biomechanics of social spider webs CRG/2019/003805	Dr. Hema Somanathan	SERB	19.03.2020 to 18.07.2023	0.5
57	Neural-network quantum state (NQS) based variational wave function for strongly correlated electron systems CRG/2021/005792	Dr. Amal Medhi	SERB	19.03.2022 to 18.03.2025	0
58	INSPIRE Faculty Award INSPIRE FACULTY AWARD - IFA-15-MA-72	Dr. Dhanya Rajendran	DST	20.04.2016 to 19.04.2022	0
59	Unrevealing the entry mechanism of Tick-borne Kyasanur Forest diseases Virus BT/PR32565/MED/29/1554/2020	Dr. Stalin Raj Victor	DBT	20.07.2021 to 19.07.2023	7.6
60	INSPIRE Faculty Fellowship DST/INSPIRE/04/2019/002507	Dr. Mathew Arun Thomas	DST	20.10.2020 to 19.10.2025	19.39
61	Study of Exotic Ground States in Frustrated Triangular Lattice Antiferromagnets CRG/2019/000960	Dr. Ramesh Chandra Nath	SERB	20.12.2019 to 19.12.2022	2.5
62	Control of stem cell heterogeneity during shoot regeneration in Arabidopsis - a functional and mechanistic analysis of is epigenetic regulators EMR/2017/002503	Dr. Kalika Prasad	SERB	21.05.2019 to 20.05.2022	0
63	Design and fabrication of electrocatalytic microcells using elemental 2-dimensional materials CRG/2021/006246	Dr. M M Shaijumon	SERB	22.03.2022 to 21.03.2025	0

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64	FIST Program SR/FST/CSII-042/2016 [C]	HoD, SoP	DST	22.07.2019 to 21.07.2024	0
65	INSPIRE Faculty Fellowship DST/INSPIRE/04/2020/001237	Dr. Anand Narayana Sarma	DST	22.10.2021 to 21.10.2026	21.39
66	Utilization of Oleophilic Atomically Precise Metal Nanocluster in Aqueous Medium Through Host-Guest Self-Assembly Approach PDF/2020/001085	Dr. Sourav Biswas	SERB	22.12.2020 to 21.12.2022	0.61 (Relieved from the Institute on 06.12.2022)
67	HPC technologies and large-scale simulation of the electromechanics for the heart function DST/NSM/R&D_HPC_ Applications/2021/03.28	Dr. Nagaiah Chamakuri	DST	23.03.2021 to 22.03.2023	0
68	Noble-Metal free Advanced Catalysts for Hydrogen Generation and Fuel Cell Applications DST/TMD/MES/2K18/136 [C] & [G]	Dr. M M Shajumon	DST	23.10.2019 to 22.10.2023	12.28
69	Development and Evaluation of diagnostics and Candidate VACacines for emerging SARS-Coronavirus-2 (Dec-VAC-SARS) IPA/2020/000070	Dr. Stalin Raj Victor	SERB	23.12.2020 to 22.12.2023	5.0
70	Quasi-optimality of adaptive finite element methods for elliptic optimal control problems SRG/2020/001027	Dr. Asha Kisan Dond	SERB	23.12.2020 to 22.12.2022	2.5
71	Design of chiral self-sorting and stimuli- responsive dynamic chiral cages and host- guest chemistry SRG/2020/001486	Dr. Soumen De	SERB	23.12.2020 to 22.12.2022	1.2
72	Realizing distributed quantum computing with silicon- based spin qubits DST/ICPS/QuST/Theme-4/2019/General	Dr. Madhu Thalakulam	DST	24.02.2020 to 31.03.2024	0
73	Open quantum systems - Non Markovian dynamics and Not Completely Positive Maps DST/ICPS/QuST/Theme-4/2019/General	Dr. Anil Shaji	DST	24.02.2020 to 31.03.2024	0
74	Organisation of Summer Schools DST/ICPS/QuST/Theme-4/2019/General- Organisation of Summer Schools	Dr. Anil Shaji	DST	24.02.2020 to 31.03.2024	0

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75	Transparent solar cells: A perspective for bifacial solar cells CRG/2021/003874	Dr. Manoj A G Namboothiry	SERB	24.02.2022 to 23.02.2025	0
76	Asymptotic preserving IMEX-DG schemes on adaptive grids for multiscale compressible flows CRG/2021/004078	Dr. K R Arun	SERB	24.02.2022 to 23.02.2025	0
77	Understanding diversification of Impatiens species in the Northern Western Ghats BT/PR27535/NDB/39/600/2018	Dr. Ullasa Kodandaramiah	DBT	24.09.2018 to 23.03.2022	0.13
78	IISER TVM-KLDB Collaborative Project KLDB COLLABORATIVE PROJECT	Dr. N Sadananda Singh	OTHERS	24.09.2021 to 23.09.2026	0
79	Twistronics with transition metal dichalcogenides IPA/2020/000021	Dr. Rajeev N Kini	SERB	26.03.2020 to 26.03.2025	0
80	Structural elucidation of the bacterial transcription elongation complex with Gre factors: focus on Mycobacterium tuberculosis RNA polymerase KSCSTE/264/2021-BLP	Dr. Sandra Maureen Francis	OTHERS	26.04.2021 to 25.04.2024	5.61
81	Combinatorial exploration and property control of oxide based power semiconductors DST/INT/JSPP/P-288/2019	Dr. Kumaragurubaran Somu	DST	26.06.2019 to 25.06.2022	0
82	Conformal approach to supergravity: New Perspectives and Applications CRG/2018/002373	Dr. Bindusar Sahoo	SERB	27.03.2019 to 26.09.2022	1.5
83	FIST Program SR/FST/LS-II/2018/217 [C]	HoD, SoB	DST	27.08.2019 to 26.08.2024	0
84	INSPIRE Faculty Award DST/INSPIRE Faculty Award/2016/DST/INSPIRE/4/2015/2111	Dr. Vinayak B Kamble	DST	28.07.2016 to 27.07.2022	15.46
85	Autophagy upregulation as a therapeutic approach for Parkinson's disease SRG/2021/000981	Dr. Poonam Thakur	SERB	28.12.2021 to 27.12.2023	4.0
86	Efficient Neuromorphic Memory via Nano-engineered Composite Film SRG/2021/000423	Dr. Tuhin Subhra Maity	SERB	28.12.2021 to 27.12.2023	0



ON-GOING EXTRAMURAL GRANTS

87	Identification and characterization of the molecular factors for the quality-control of kinetochore size and fidelity of spindle-chromosome attachment BT/PR30271/BRB/10/1740/2018	Dr. Tapas Kumar Manna	DBT	29.07.2019 to 28.07.2023	5.12
88	Efficient means of zero-error communication through coherent controlling of noisy quantum channels SRG/2021/000267	Dr. Manik Banik	SERB	29.12.2021 to 28.12.2023	0 (Relieved from the Institute on 10.06.2022)
89	Junction barrier modulation study in engineered core-shell oxide heterostructure gas sensor device DST/NM/NT/2018/124 [C] & [G]	Dr. Vinayak B Kamble	DST	30.10.2018 to 30.04.2022	0
90	Engineering a site-specific synthetic chromatin remodeler for genome editing and gene expression SPR/2020/000427	Dr. Nishant K T	SERB	31.08.2021 to 30.08.2024	0
91	Integration of 2D materials in organic and organic-inorganic hybrid solar cells: Insights into charge extraction and transport STARS/APR2019/PS/308/FS	Dr. Manoj A G Namboothiry	MoE	31.12.2019 to 04.02.2024	5.36
92	Quantum point contact charge amplifiers embedded in a planar superconducting microwave resonator: Quantum-limited charge sensing and counting STARS/APR2019/PS/363/FS	Dr. Madhu Thalukulam	MoE	31.12.2019 to 04.02.2024	5.83
93	Structural characterization of functional prion domain of mammalian cytoplasmic polyadenylation element-binding protein 3 (CPEB3) STARS/APR2019/BS/708/FS	Dr. Vinesh Vijayan	MoE	31.12.2019 to 18.02.2024	10.51
94	Electrophilic aluminium compounds for catalytic CO ₂ hydrosilylation STARS/APR2019/CS/250/FS	Dr. Ajay Venugopal	MoE	31.12.2019 to 18.02.2024	2.44
95	Epigenetic modulation of centromeres to produce in vivo haploids by triggering uniparental genome elimination in plants STARS/APR2019/BS/818/FS	Dr. Ravi Maruthachalam	MoE	31.12.2019 to 18.03.2024	6.7
96	ENDFLU - Evaluation of Rationally Designed Influenza Vaccines DBT-EU-BT/IN/EU-INF/15/RV/19-20	Dr. Stalin Raj Victor	DBT	31.12.2020 to 30.12.2025	22.35