

**Active Projects during F.Y.2023-24**

<b>SR. NO</b>	<b>Project Name</b>	<b>Sanction Number</b>	<b>PI</b>	<b>Co-PI</b>	<b>Funding Agency</b>	<b>Start Financial Year</b>	<b>Final End date</b>
1	To understand the immunosuppressive activity of secretory PD-L1 and its regulation by F-Box proteins to develop potent immunotherapeutic leads for cancer	CRG/2020/005433	Dr. Manas Santra	No	SERB	2020-21	21-07-2024
2	Characterization of inter-cellular transport of Ran GTPase	BT/PR32331/BRB/10/1774/2019	Dr. Jomon Joseph	Dr. Vasudevan Seshadri	DBT	2020-21	26-08-2024
3	Elucidation of the role of long noncoding RNA-Ginir as a biomarker in lung tumorigenesis	BT/PR36142/MED/30/2201/2020	Dr. Manas Santra	Dr. Surender Kumar Sharawat Dr. Prabhat Singh Malik Dr. Sunil Kumar, Dr. Gaurav Das	DBT	2021-22	18-08-2024
4	Influence of Obesity/associated factors on immune cells (monocytes and macrophages) as well as on DNA damage response and its implications in cancers.	CRG/2020/005264	Dr. Manoj Kumar Bhat	Dr. Mohan Wani	SERB	2023-24	05-06-2026
5	Epigenetic mechanisms of regulation of autophagy in development, differentiation and disease.	DST/INSPIRE FACULTY/Group-03/2016-17	Dr. Deepika Puri	None	DST	2019-20	29-07-2024
6	Establishment of Center of Excellence for "National Center for Microbial Resource (NCMR)."	BT/Coord.II/01/03/2016	Dr. Avinash Sharma	Dr. Dhiraj Dhotre, Dr. Amit Yadav	DBT	2016-17	30-09-2024
7	Determination of the vector of sandal spike disease (SSD) of Indian Sandalwood (Santalum Album L.) and Development of integrated vector management strategies.	Z.18017/187/CSS/R&D/KR-03/2019-20-NMPB-IV-A	Dr. Amit Yadav	None	Ministry of Ayush	2020-21	01-10-2024
8	Bioprospecting of Marine microbial diversity for various products under the Marine Bioresource and Biotechnology Network Programme.	BT/PR41474/NDB/39/760/2020	Dr. Avinash Sharma	Dr. Ajay Pillai	DBT	2021-22	27-09-2024
9	Identifying interactors of E-cadherin in embryonic stem cells	CRG/2021/002728	Dr. Deepa Subramanyam	Dr. Vidisha Tripathy	SERB	2021-22	30-12-2024
10	Identification and characterization of downstream effector proteins for Gao, the major neural G protein in brain tissue	BT/PR38584/MED/122/247/2020	Dr. Santosh Kumar	Dr. Ravi Pratap Barnwal, Dr. Bharat Bajaj, Dr. Gurpal Singh	DBT	2021-22	19-12-2024
11	Delineation of the major brain G protein, G o mediated signaling pathway using C.elegans model system.	CRG/2021/000732	Dr. Santosh Kumar	Dr. Gurpal Singh Dr. Ravi Pratap Barnwal	SERB	2021-22	29-12-2024

12	Studying the liquid-liquid phase separation properties associated with a transcriptional co-activator	CRG/2021/003130	Dr. Amitabha Majumdar	Dr. Deepa Subramanyam	SERB	2021-22	20-01-2025
13	Structure and function of trans-synaptic complexes mediated by Neurexin, Cerebellin and GluD receptors	BT/HRD/MK-YRFP/50/22/2021	Dr. Jupitara Kalita	None	DBT	2021-22	07-10-2024
14	Clinical role of a pair of novel mutations in BCR-ABL 1 towards therapy switch in imatinib resistant chronic myeloid leukemia	Lady Tata Fellowship	Dr. Manas Santra	None	Lady Tata Memorial Trust	2021-22	13-12-2024
15	Precision antibodies engineering centre (PACE)	IPA/2021/000148	Dr. Akanksha Chaturvedi	Dr. Debasis Nayak Dr. Ram Kumar Mishra Dr. Sanjeev Shukla Dr. Satyendra Kumar Singh	SERB	2021-22	02-03-2027
16	Understanding the functions of Annulate Lamellae, an underexplored cell organelle	SPR/2021/000352	Dr. Jomon Joseph	None	SERB	2021-22	21-03-2025
17	System regulatory networks of autophagy proteins in leishmania: Implication towards drug design	58/39/2020/PHA/BMS	Dr. Shailza Singh	None	ICMR	2021-22	27-03-2025
18	A novel function for a conserved bio-amine in long-term memory and RNA granule remodeling-No. 6503-E	IFC/6503-1/2022(CEFIPRA)	Dr. Amitabha Majumdar	Subodh Kumar Ram	IFCPAR	2022-23	30-06-2025
19	Specific adaptations and metabolic potentials of previously unknown psychrophilic prokaryotes from the Antarctic environment.	SRG/2022/000126	Dr. Avinash Sharma	None	SERB	2022-23	17-10-2024
20	Characterization of the effect of pathogenic Cltc variants in early development	BT/PR43190/MED/97/573/2021	Dr. Deepa Subramanyam	Dr. Amitabha Majumdar	DBT	2023-24	25-09-2026
21	Investigating molecular mechanisms governing the proliferation - differentiation balance in adult stem cells during chronic infections	DST/INSPIRE/04/2018/002808	Dr. Prasad Abnave	None	DST	2019-20	24-07-2024
22	To develop therapeutic leads to counter PD-L1 mediated suppression of immune system in cancer microenvironment	5/13/46/2022/NCD-III	Dr. Manas Santra	None	ICMR	2022-23	19-03-2026
23	Identification and Validation of Neoantigens in a syngenic mouse model of Overrain cancer.	2021-10212/GENOMICS/ADHOC-BMS	Dr. Sharmila Bapat	Dr. Girdhari Lal	ICMR	2023-24	16-04-2026
24	Charactarization of Pseudogene-like CTs in Overian Cancer.	BT/PR44676/MED/30/2399/2022	Dr. Sharmila Bapat	Dr. Amitabha Majumdar	DBT	2022-23	23-01-2026

25	Generation of novel high-affinity human monoclonal antibody cocktail against Rabies virus for efficacious post-exposure prophylaxis	253/2023/00212(Sree PVF/G/TS/22/1)	Dr. Akanksha Chaturvedi	Dr. Bebasis Nayak	Sree Padmavathy Venkateswara Foundation	2023-24	01-09-2025
26	Understanding the molecular mechanism of biogenesis of lysosome-related organelles using the Tetrahymena thermophila model system.	IA/I/22/2/506480	Dr. Santosh Kumar	None	DBT-wellcome	2023-24	31-08-2028
27	Understanding the role of specific serotonin receptor signaling in modulating the antigen-specific immunity to control tumor growth	CRG/2022/007108	Dr. Girdhari Lal	None	SERB	2023-24	10-09-2026
28	"Department of Biotechnolgy" Consortium on Celiac Disease	BT/PR45830/MED/12/963/2022	Dr. Dhiraj Dhotre	Dr. Amit Yadav	DBT	2023-24	03-09-2028
29	VAPB at membrane contact sites: ALS-FTD at the crossroads of ER stress,proteostasis, lipid homeostasis and inflammation.	EMSTAR/2023/SL03	Girish Ratnaparkhi, Professor, IISER	NCCS, Pune Dr. Jomon Joseph Dr. Gaurav Das	EMSTAR	2023-24	28-02-2029
30	Understanding the virus-nuclear pore complex crosstalk using computational and structural biological approaches	HRD-16016/13/2023-AFS-DBT	Dr. Krishna Kant Gupta	None	DBT	2023-24	02-04-2026
31	Functional implications of evolutionarily conserved motifs in compliment factor H-an alternative complement pathway regulator linked to multiple human diseases	HRD-16016/12/2023-AFS-DBT	Dr. Atala Bihari Jena	None	DBT	2023-24	02-04-2026

**(List of Schemes/projects/program underway) Ongoing Projects 2024-25**

Sr. No.	Sanction Order No.	Title	Project Leader	sponsoring agency	Start Date	End Date
1	JCB/2020/000020	J C Bose Fellowship	Dr. Arvind Sahu	SERB	25.11.2020	24.11.2025
2	SB/S2/JCB-01/2023	J C Bose Fellowship	Dr. Shekhar Mande	SERB	13.11.2023	12.11.2028
3	BT/HRD/MKYRFP/50/22/2021	Structure and function of trans-synaptic complexes mediated by Neurexin, Cerebellin and GluD receptors	Dr. Jupitara Kalita	DBT/ M K Bhan Young Research Fellow	08.10.2021	07.10.2024
4	HRD-16016/12/2023-AFS-DBT	Functional implications of evolutionarily conserved motifs in complement factor H - an alternative complement pathway regulator linked to multiple human diseases	Dr. Atala Bihari Jena	DBT/ M K Bhan Young Research Fellow	03.04.2023	02.04.2026
5	HRD-16016/13/2023-AFS-DBT	Understanding the virus - nuclear pore complex crosstalk using computational and structural biological approaches	Dr. Krishnakath Gupta	DBT/ M K Bhan Young Research Fellow	03.04.2023	02.04.2026
6	DBT-RA/2023-24/Call-I/SRF/08	Neuronal Differentiation of iPSCs Derived from Intellectual Disability Patients to Study de novo CLTC Mutation	Dr. Princy Choudhary	DBT-RA	19.02.2024	18.02.2026
7	IA/I/23/2/506999	Recognition of RNA structural motifs by bespoke small-molecules to interrogate and alter RNA-RBP interactions associated with phase-separated toxic aggregate formation	Dr. Sanjukta Mukherjee	DBT-Wellcome Trust Intermediate Fellow	15.03.2024	14.03.2029