

### **Projects supported under EFB-Biomedical Sciences**

SN	PI Name and Institute	Project Title	State
<b>Program Officer: Dr Deo Prakash Chaturvedi, Scientist-D</b>			
1.	Dr. Deepak Modi, ICMR-Institute for Research in Reproductive Health (NIRRH), Mumbai	Identification of HOXA10-driven genetic networks in the endometrium	Maharashtra
2.	Dr. Rupasri Ain, CSIR-Indian Institute of Chemical Biology (IICB), Kolkata	Long non-coding RNA signature and function in trophoblast stem cell differentiation	West Bengal
3.	Dr. Sundarasamy Mahalingam, Indian Institute of Technology (IIT), Madras	Understanding the Molecular Function of RASSF8 induced Cellular Autophagy during Tumorigenesis	Tamilnadu
4.	Dr. Sudhanshu Kumar Shukla, Indian Institute of Technology (IIT), Dharwad	Decoding the Role of Oncofetal LncRNA LINC01456 in Cancer Development and its Clinical Relevance	Karnataka
5.	Dr. Kumaravel Somsundaram, Indian Institute of Science (IISc), Bangalore	ISWI (Imitation switch) Chromatin Remodeling Complex in cancer: Dissecting the role of Bromodomain Adjacent To Zinc Finger Domain 1A (BAZ1A) and developing targeted therapy	Karnataka
6.	Dr. Amit Lahiri, CSIR-Central Drug Research Institute (CDRI), Lucknow	Unravelling the crosstalk between mitochondrial dynamics and gut dysbiosis in the pathogenesis of Inflammatory Bowel Disease	Uttar Pradesh
7.	Dr. N Ravi Sundersan, Indian Institute of Science (IISc), Bangalore	Understanding the role of SIRT2 in the regulation of cardiac lipotoxicity	Karnataka
8.	Dr. Debasis Das, Tata Institute Of Fundamental Research (TIFR), Mumbai	Investigating the molecular basis of Parkinson's disease (PD) pathology	Maharashtra
9.	Dr. Raja Bhattacharya, Amity University, Kolkata	Understanding mechanisms of GPCR promiscuity in neuromodulation using Caenorhabditiselegans homologue of cholecystokinin receptor 1 (CKR-1)	West Bengal

		as a prototype GPCR	
10.	Dr. Sandip Kumar Nandi, Birla Institute of Technology & Science (BITS), Pilani - Goa	DJ-1 in human lens: A therapeutic target to treat presbyopia and cataract	Goa
11.	Dr. Chittaranjan S Yajnik, King Edward Vii Memorial Hospital, Pune	Follow-up of children born in a B12- multimutrient supplementation primordial trial (PRIYA) to reduce diabetes risk and improve neurocognitive performance	Maharashtra
12.	Dr. Kishore Parsa, Dr. Reddy's Institute of Life Sciences, Hyderabad	Understanding the functional significance of RNA exosome complex sub-unit EXOSC1, implicated in the rare disease pontocerebellar hypoplasia, using cellular and zebrafish model systems	Telangana
13.	Dr. Giriraj Sahu, Indian Institute of Science (IISc), Bangalore	Elucidation of the mechanisms for the inhibition of intrinsic excitability regulator slow afterhyperpolarization in temporal lobe epilepsy	Karnataka
14.	Dr. Swagata Ghatak, National Institute of Science Education And Research (NISER), Bhubaneswer	Two pore domain leak potassium channel related mechanisms of excitatory-inhibitory imbalance in Alzheimer's disease.	Odisha
15.	Dr. Vandana Jain, All India Institute of Medical Sciences (AIIMS), New Delhi	Assessing the genesis of the 'thin-fat' Asian Indian phenotype: A longitudinal study on body composition, metabolic and metabolomic profile in children born preterm or small for gestational age	Delhi (UT)
16.	Dr. Sunil Martin, BRIC- Rajiv Gandhi Centre For Biotechnology (RGCB), Thiruvananthapuram	Augmenting off-the-shelf $\gamma\delta$ T cell therapy in oral squamous cell carcinoma (OSCC) by targeted regulation of EZH2	Kerala
17.	Dr. Minu Singh, Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh	Profiling and functional validation of non-annotated microproteins in pediatric acute myeloid leukemia	Chandigarh
18.	Dr. Sreedhar	Functional analysis of a novel human	Telangana

	Chinnaswamy, BRIC-National Institute of Animal Biotechnology (NIAB), Hyderabad	interferon lambda 4 (IFNL4) gene isoform and interrogation of an IFNL4 SNP (rs4803221) for novel functions	
19.	Dr. Jyotirmoy Banarjee, All India Institute of Medical Sciences (AIIMS), New Delhi	Deciphering the contribution of proestrous-estrous transition to seizure susceptibility in drug resistant epilepsy pathologies.	Delhi (UT)
20.	Dr. Darshee Baxi, Navrachana University, Vadodara	Can $\beta$ -glucan-induced gut microbiome metabolites improve PCOS symptoms? An experimental and clinical study	Gujarat
21.	Dr. Amal Kanti Bera, Indian Institute of Technology (IIT), Madras	A novel approach of treating GNB1 encephalopathy with GIRK channel modulators and HCA1 receptor agonists	Tamilnadu
22.	Dr. Sandeep Singh, BRIC-National Institute of Biomedical Genomics (NIBMG), Kalyani	Study on the epigenetic mechanism of JAK-STAT driven plasticity in oral cancer stem cells for its therapeutic value	West Bengal
23.	Dr. Sudhakar Baluchamy, Pondicherry University, Puducherry	Investigating the role of DNA Methyltransferase 3B long noncoding RNA in the regulation of tumour suppressor genes and glioblastoma cell proliferation.	Puducherry (UT)
24.	Dr. Mohit Prasad, Indian Institute of Science Education And Research (IISER), Kolkata	Investigating Gap junction Function in Phagoptosis; Lessons from Drosophila egg	West Bengal
25.	Dr. Sumit Sen Santara, Indian Institute of Science Education And Research (IISER), Kolkata	Development of engineered Natural Killer (NK) cells for adoptive therapy to achieve in vivo persistent and efficient killing of target cells -an indigenous approach to treat cancer	West Bengal
26.	Dr. Debasree Dutta, BRIC-Rajiv Gandhi Centre For Biotechnology (RGCB), Thiruvananthapuram	Centrosome duplication in stem cells- a novel function of histone chaperone APLF in shaping development	Kerala
27.	Dr. Rajakumara Eerappa, Indian Institute of Technology (IIT),	Mechanistic studies on regulation of poly(ADP-ribose) polymerases 1 activities by non-DNA factors, and	Telangana

	Hyderabad	PAR mimetics inhibitors design	
28.	Dr. Jonaki Sen, Indian Institute of Technology (IIT), Kanpur	Investigating how bone morphogenetic protein (BMP) signaling regulates the balance between proliferation and differentiation of neural progenitor cells in the cortex	Uttar Pradesh
29.	Dr. Purusharth I Rajyaguru, Indian Institute of Science (IISc), Bangalore	Elucidating the role of low complexity sequences in the disassembly of TDP-43 aggregates	Karnataka
30.	Dr. Arshad Ahmad Pandith, Sher I Kashmir Institute of Medical Sciences, Srinagar	Impact of Genotypic and phenotypic expression of SLCO1B1 gene on Methotrexate dosage in the outcome of acute lymphoblastic leukemia	Jammu and Kashmir (UT)
31.	Dr. Siddhartha Sankar Jana, DST-Indian Association For The Cultivation Of Science (IACS), Kolkata	An approach to inhibit cancer cell migration and growth by targeting Nonmuscle myosin II and Topoisomerase I	West Bengal
32.	Dr. Jayanta Halder, Jawaharlal Nehru Centre For Advanced Scientific Research (JNCASR), Bangalore	In-aqueous fabrication of antimicrobial covalent coating on catheters to mitigate catheter-associated urinary tract infections (CAUTIs)	Karnataka
33.	Prof. Debrupa Lahiri, Indian Institute Of Technology (IIT), Roorkee	Developing magnesium alloy based temporary orthopedic implants coated with hydroxyapatite by plasma-spraying.	Uttarakhand
34.	Prof. Chandan Mukherjee, Indian Institute Of Technology (IIT), Guwahati	Development of organ and functional-specific MRI contrast agents	Assam
35.	Dr. Somen Mondal, Institute of Chemical Technology (ICT), Marathwada Campus, Mumbai	Conductive free-standing soft biopolymer for bioelectronic devices	Maharashtra
36.	Dr. B N Srikumar, National Institute of Mental Health & Neuro	Elucidating the Neurosteroid and Neuronal Plasticity Mechanisms of Premenstrual Dysphoric Disorder	Karnataka

	Sciences (NIMHANS), Bangalore	(PMDD) in a Rat Model	
37.	Dr. Kushaan Khambata, ICMR-National Institute for Research in Tuberculosis (NIRT), Mumbai	Investigating sperm 5hmC landscape in male infertility and recurrent pregnancy loss	Maharashtra
38.	Dr. Souvik Dey, Manipal Academy of Higher Education (MAHE), Manipal	Investigation on the Cohesive Roles of Glycogen Synthase Kinase 3 alpha and FTO in Regulation of Mammalian Spermatogenesis	Karnataka
39.	Dr. Nagarjun Narayanswamy, BRIC- Rajiv Gandhi Centre For Biotechnology (RGCB), Thiruvananthapuram	Development of new activity-based probes for understanding the role of non-apoptotic cell death pathways	Kerala
40.	Prof. Tapas Manna, Indian Institute of Science Education and Research (IISER), Thiruvananthapuram	Understanding the role of highly expressed in cancer 1 (Hec1) in controlling expanded organization of kinetochore and its link to mitotic checkpoint signaling	Kerala
41.	Dr. Dibyendu Samanta, Indian Institute of Technology (IIT), Kharagpur	Deciphering the role of a novel interaction between nectin-4 and E- cadherin in tumor development and progression	West Bengal
42.	Dr. Devanjan Sinha, Banaras Hindu University (BHU), Varanasi	Role of Tim44 in rewiring tumour cell mitochondria to promote cell proliferation and angiogenesis	Uttar Pradesh
43.	Dr. Ujjaini Dasgupta, Ashoka University, Haryana	Identification of Bioactive Lipids as a Liquid Biopsy Tool for Early Detection of Hepatocellular Carcinoma (HCC) and Evaluation of the Treatment Response	Haryana
44.	Dr. Rakesh Laishram, BRIC-Rajiv Gandhi Centre For Biotechnology (RGCB), Thiruvananthapuram	Omics of Preeclampsia associated cardiovascular complications – An RNAcentric approach towards molecular understanding	Kerala
45.	Dr. Anupam Mittal, Post Graduate Institute of Medical Education and	Establishment of novel gene variant for recurrent cardiac myxoma using iPSC derived cardiomyocytes and	Chandigarh (UT)

	Research (PGIMER), Chandigarh	transgenic murine model	
46.	Dr. Rajesh Ramachandran, Indian Institute of Science Education And Research (IISER), Mohali	Exploring the roles of long non- coding RNA malat1 during retina and fin regeneration in zebrafish	Punjab
47.	Dr. Swadhin Jana, National Center for Biological Sciences (NCBS), Bangalore	Mechanistic Insight into Mono-to- Oligogenic Inheritance Patterns in Ciliopathies via Metazoan Models and Mutations in Ciliary Transport Machinery	Karnataka
48.	Dr. Anil Kumar Pasupulati, University of Hyderabad, Hyderabad	Targeting EMT of Podocytes and Proximal Tubular Epithelial Cells to Combat Diabetic Kidney Disease	Telangana
49.	Dr. Yashwant Kumar, BRIC-Translational Health Science And Technology Institute (THSTI), Faridabad	Assessing Environmental Chemical Risk Factors for Type 2 Diabetes: A 24-Year Follow-up Cohort Study	Haryana
50.	Dr. Pongali Raghavendra, BRIC-National Institute of Biomedical Genomics (NIBMG), Kalyani	UNDERSTANDING THE MOLECULAR MECHANISM IN CERAMIDE INDUCED PATHOLOGICAL ACTIVATION OF NEK7/NLRP3 – INFLAMMASOME	West Bengal
51.	Dr. Vimlesh Kumar, Indian Institute of Science Education and Research (IISER), Bhopal	Probing in vivo roles of J-domain and RNA Recognition Motif (RRM)- containing dCwc23 chaperone in neuromorphogenesis and neurodegeneration.	Madhya Pradesh
52.	Dr. Mahendran KR, BRIC- Rajiv Gandhi Centre For Biotechnology (RGCB), Thiruvananthapuram	Functional membrane-spanning amyloid pores: from structure and assembly to medicine	Kerala
53.	Dr. Gireesh Gangadharan, Manipal School of Life Sciences, Manipal	Neural circuit mechanism of obsessive-compulsive disorder-like checking behaviour in mice: A study with a special focus on the role of hippocampo-medial prefrontal cortical neuronal circuit	Karnataka
54.	Dr. Abhijit Das, Indian	Spontaneous neuronal activity	West Bengal

	Institute of Technology (IIT), Kharagpur	induced transcriptional regulation mediated by Mef2 in the origin of Autism Spectrum Disorder	
55.	Dr. Amrutha Swaminathan, Indian Institute of Science Education and Research (IISER), Thiruvananthapuram	Understanding the contribution of chromatin remodellers to epilepsy	Kerala
56.	Dr. Mahak Sharma, Indian Institute of Science Education And Research (IISER), Mohali	Understanding the role of hereditary sensory and autonomic neuropathy gene TECPR2 in cargo sorting and transport from early endosomes	Punjab
57.	Dr. Pradeep Punnakal, Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh	Dissecting the Effect of third-generation antiseizure medications in the Amygdala Networks	Chandigarh (UT)
58.	Dr. Aurnab Ghose, Indian Institute of Science Education and Research (IISER), Pune	Decoding neural circuits coupling feeding states with anxiety and fear: adaptive modulation by hypothalamic CART neurons	Maharashtra
59.	Prof. Shubha Tole, Tata Institute Of Fundamental Research (TIFR), Mumbai	Signaling mechanisms and the regulation of cell fate at the the mammalian forebrain midline	Maharashtra
60.	Dr. Varun Bhaskar, DST-Jawaharlal Nehru Centre For Advanced Scientific Research (JNCASR), Bangalore	Elucidating the combinatorial effects of C9ALS/FTD-associated disease factors on RNA homeostasis	Karnataka
61.	Dr. Somnath Dutta, Indian Institute of Science (IISc), Bangalore	Structural and functional investigations of $\alpha$ -hemolysin in cellular context: insights into membrane remodeling for targeted therapeutics	Karnataka
62.	Dr. Bhaskar Saha, Manipal School of Life Sciences, Manipal	Exploring the potential of modulating the pro-survival functions of mitophagy to develop novel anticancer treatment strategies	Karnataka
63.	Dr. Ashwin Laxmikant Kotnis, All India Institute	Exploration of the correlation of genotype, glycoproteins, and clinical	Madhya Pradesh

	of Medical Sciences (AIIMS), Bhopal	phenotype of disease severity in vitiligo	
64.	Dr. Amitabha Bandyopadhyay, Indian Institute of Technology (IIT), Kanpur	Investigating the role of FGF4 in limb skeletal branching	Uttar Pradesh
65.	Dr. Subhash C Lakhotia, Banaras Hindu University (BHU), Varanasi	Roles of multiple transcripts of hsromega lncRNA gene of Drosophila melanogaster in development, immunity, and omega speckle organization	Uttar Pradesh
66.	Dr. Rohit Joshi, BRIC-Centre For DNA Fingerprinting and Diagnostics (CDFD), Hyderabad	Investigating the role PP1-PNUTS in generation of cell diversity during Drosophila neurogenesis	Telangana
67.	Dr. Dasaradhi Palakodeti, BRIC-Institute for Stem Cell Biology and Regenerative Medicine (inStem), Bangalore	Unveiling the Mechanisms of Pluripotency through RNA Granules and Mitochondrial Dynamics	Karnataka
68.	Dr. Sourav Kumar Dey, Indian Institute of Technology (IIT), Dhanbad	Real-time imaging of cancer metabolism using RNA-based sensors	Jharkhand
69.	Dr. Shweta Tyagi, BRIC-Centre For DNA Fingerprinting and Diagnostics (CDFD), Hyderabad	Deciphering the functional interaction of BOD1 with KMT2 family	Telangana
70.	Dr. Sam J Mathew, DBT-Regional Centre For Biotechnology (RCB), Faridabad	Role of myosin heavy chain-slow in skeletal muscle development and disease	Haryana
71.	Dr. Ramesh Yelagandula, BRIC-Centre For DNA Fingerprinting and Diagnostics (CDFD), Hyderabad	Elucidating the Role of ZFP687 in Bone Cell Lineage Specification and Maintenance	Telangana
72.	Dr. Sanjeev Sinha, All India Institute of Medical	To estimate the prevalence and risk factors of metabolic-associated fatty	Delhi (UT)



	Sciences (AIIMS), New Delhi	liver disease (MAFLD) and non-alcoholic fatty liver disease (NAFLD) in PLHIV who are on antiretroviral therapy (ART)	
73.	Dr. Nitish R Mahapatra, Indian Institute of Technology (IIT), Madras	Role of exosome-derived non-coding RNAs in the regulation of renin-angiotensin system under myocardial infarction condition	Tamilnadu
74.	Dr. Sanjeev Shukla, Indian Institute of Science Education and Research (IISER), Bhopal	Investigation of hypoxia-induced CTCF, G-quadruplex and chromatin reorganization in regulation of alternative splicing promoting breast cancer progression	Madhya Pradesh
75.	Dr. Siddhartha Roy, CSIR-Indian Institute Of Chemical Biology (IICB), Kolkata	Structural Elucidation into NIPBL Promoter Interactions: Novel Insights for Understanding Cornelia de Lange Syndrome (CdLS): a rare disease in human	West Bengal
76.	Dr. Narayan Prasad, Sanjay Gandhi Postgraduate Institute of Medical Sciences (SGPGIMS), Lucknow	Deep Immunophenotyping of Human Whole Blood in patients with Acute Kidney Injury, Acute Kidney Disease, and Chronic Kidney Disease	Uttar Pradesh
77.	Dr. Swapnil Rohidas Shinde, Indian institute of Technology (IIT), Bombay	Dissecting mechanisms of functional regulation of ciliary GPCRs pertinent to pancreatic hormonal secretions and glucose metabolism	Maharashtra
78.	Dr. Sabyasachi Rakshit, Indian Institute of Science Education And Research (IISER), Mohali	Deciphering the Oscillatory Force Response of Tip-links in Hearing	Punjab
79.	Dr. Ravi Manjithaya, DST-Jawaharlal Nehru Centre For Advanced Scientific Research (JNCASR), Bangalore	Elucidating the role of lysosomal hydrolase trafficking in health and disease	Karnataka
80.	Dr. Sai Prasad Pydi, Indian Institute of Technology (IIT), Kanpur	Decoding the Activation of GPCR Signaling via Macrophage Rho Pathways in Obesity and Diabetes	Uttar Pradesh
81.	Dr. Savneet Kaur, Institute Of Liver & Biliary Science	Impact of Maternal Metabolic Dysfunction-Associated Fatty Liver	Delhi (UT)

	Sciences (ILBS), New Delhi	disease on Fetal Liver and Overall Health of the Offspring	
82.	Dr. Rahul Das, Indian Institute of Science Education And Research (IISER), Kolkata	Developing functional T-cells active under high potassium concentration mimicking the tumor microenvironment	West Bengal
83.	Dr. Arnab Barik, Indian Institute of Science (IISc), Bangalore	Mechanistic Dissection of the Roles of a Peptidergic Circuitry between the Lateral Hypothalamus and Medial Septum in the Affective-Motivational Components of Pain	Karnataka
84.	Dr. Ravi Muddashetty, Centre for Brain Research, IISc, Bangalore	Investigate the role of mitochondrial protein synthesis in synaptic function and its implications for Alzheimer's Disease	Karnataka
85.	Dr. Shweta Ramdas, Centre for Brain Research, IISc, Bangalore	Elucidating the role of DNA methylation and transposable element activity in age-related cognitive decline in India	Karnataka
86.	Dr. Sivaprakasam Ramamoorthy, Centre for Brain Research, IISc, Bengaluru	The molecular and neural basis of glypican-4-mediated tau pathology in Alzheimer's disease	Karnataka
87.	Dr. Gajanan Bhujangrao Kendre, National Institute of Technology, Rourkela	Dissecting Molecular Heterogeneity of FGFR2 Alterations in Cholangiocarcinoma: Implications for Precision Oncology and Targeted Therapeutics	Odisha
88.	Prof. Soumya Iyengar, BRIC-National Brain Research Center (NBRC), Manesar, Haryana	Using Zebra finches as a Model System to test the Role of Opioid Receptors underlying Vocal Deficits in Autism Spectrum Disorders	Haryana
89.	Dr. Sadhan Chandra Das, Indian Institute of Science Education And Research (IISER), Mohali	Investigating the role of Hexokinase enzymes in impaired macrophage polarization under diabetes	Punjab
90.	Dr. Akash Gulyani, University of Hyderabad, Hyderabad	Imaging and targeting metabolically distinct mitochondrial populations for fatty liver disease therapeutic screening	Telangana

91.	Dr. Anand Teertha Vaidya, Tata Institute Of Fundamental Research (TIFR), Hyderabad	Unravelling the Molecular Basis of Mitochondrial Architecture: Structural and Functional Characterization of the Mic10 Protein Complex	Telangana
92.	Dr. Devivasha Bordoloi, Indian Institute of Science Education and Research (IISER), Bhopal	Evaluation of anti-tumor immunity of novel engineered DNA encoded CD328 monoclonal antibody biologics for targeted cervical cancer immunotherapy	Madhya Pradesh
93.	Dr. Pawan Tiwari, All India Institute of Medical Sciences (AIIMS), New Delhi	Efficacy of Pulmonary Rehabilitation Augmented by Yoga on Exercise Capacity and Quality of Life in Patients with Moderate to Severe Chronic Obstructive Pulmonary Disease: A Randomised Controlled Trial	Delhi (UT)
94.	Dr. Madhumathy G Nair, St. John Research Institute, Bangalore	From Dysplasia to Carcinoma: Profiling the Inflammatory and Fibrogenic Influences on Epithelial plasticity in Oral Cancer to disinter the early transition genes	Karnataka
95.	Dr. Shilpak Chatterjee, CSIR-Indian Institute Of Chemical Biology (IICB), Kolkata	Studying the Impact of Lactic acid-Mediated Metabolic Rewiring in Influencing CD8+ T cell Exhaustion and Therapeutic Response to Anti-PD-1 Therapy in Cancer	West Bengal
96.	Dr. Pritha Ray, Advanced Centre For Treatment Research & Education In Cancer (ACTREC), Mumbai	Exploring restoration of Cisplatin sensitivity with Alpelisib in Platinum Resistant recurrent High grade serous ovarian cancer patient derived tumor cells	Maharashtra
97.	Dr. Chockalingam S, National Institute of Technology (NIT), Warangal	Investigations on the signaling cascades mediated by Anaplastic Lymphoma Kinase (ALK) in neuroblastoma	Telangana
98.	Dr. Santhosh Sethuramanujam, Indian Institute of Technology (IIT), Madras	Investigating the neuronal sub-populations preferentially afflicted in the early stages of retinopathy in diabetic mouse models	Tamilnadu
99.	Dr. Richa Arya, Banaras Hindu University (BHU),	To Decipher the Molecular Link Between Neural Stem Cell Size and	Uttar Pradesh

	Varanasi	Fate in the Drosophila CNS	
100.	Prof. Samrat Mukhopadhyay, Indian Institute of Science Education And Research (IISER), Mohali	The Role of Intrinsically Disordered N-terminal Domain in Phase Separation of the Prion Protein	Punjab
101.	Dr. Divya Kumar, JSS Medical College, Mysore	Exploring the Role of AATF in Ferroptosis Regulation in Metabolic Dysfunction-Associated	Karnataka
102.	Dr. Vidhya Munnamalai, BRIC-National Brain Research Center (NBRC), Manesar, Haryana	Investigating the influence of cytoskeletal regulators on the regenerative potential of cochlear sensory tissue	Haryana
103.	Dr. Anindya Roy, Indian Institute of Technology (IIT), Hyderabad	Expanding the DNA End Binder (DEB) Library for Selective Inhibition of DNA Repair Pathways in Cancer	Telangana
104.	Prof. Tamal Das, Tata Institute Of Fundamental Research (TIFR), Hyderabad	Uncovering Mechanosensitive Remodeling of Intermediate Filaments as a Novel Axis in Epithelial Defense Against Cancer	Telangana
105.	Dr. Santosh Kumar Verma, Sanjay Gandhi Postgraduate Institute of Medical Sciences (SGPGIMS), Lucknow	Decoding alarmins role in high risk pregnancy and their causal role as novel biomarkers.	Uttar Pradesh
106.	Dr. Debdeep Dutta, Indian Institute of Technology (IIT), Kanpur	Role of outer mitochondrial membrane protein Tom70 in iron metabolism and neurodegeneration	Uttar Pradesh
107.	Dr. Dinesh Upadhyay, Manipal Academy of Higher Education (MAHE), Manipal	Investigating target gene functions of novel microRNAs in GABA interneuron development using human cerebral organoids and animal studies	Karnataka
<b>Program Officer: Dr Vandana Prajapati, Scientist-D</b>			
108.	Dr. Arun Kumar Shukla, Indian Institute of Technology, Kanpur	Elucidating the structure and function of an enigmatic seven transmembrane receptor, the human Duffy antigen receptor for chemokines (DARC)	Uttar Pradesh
109.	Dr. Niti Puri, Jawaharlal Nehru University, New	Virulence of C. albicans GPI biosynthetic mutants exhibiting hyperfilamentous phenotypes- a study	New Delhi

	Delhi	using mammalian cell lines and mouse models	
110.	Dr. Arumugam Rajavelu , Indian Institute of Technology, Madras	Functional studies on unconventional epigenetic marks in Plasmodium falciparum and its role in parasite virulence	Tamil Nadu
111.	Dr. Sunando Datta, Indian Institute of Science Education and Research, Bhopal	Elucidation of molecular machinery and mechanisms that drive trophocytosis in Entamoeba histolytica	Madhya Pradesh
112.	Dr. Suprabhat Mukherjee, Kazi Nazrul University, Asansol	Exploring the role of opportunistic fungal infection on the immunoregulatory pathways that transform host immunity from protection to pathogenesis in filarial patients: relevance to therapeutic intervention of bancroftian filariasis	West Bengal
113.	Dr. Chittur Srikanth, Regional Centre for Biotechnology, Faridabad	Mechanistic studies SUMOylation and Salmonella intracellular pathogenesis	Haryana
114.	Dr. Trishna Bal, Birla Institute of Technology, Mesra  Dr. Karmabeer Jena, Central Tasar Research & Training Institute, Ranchi	Inflatable mucoadhesive vaginal tablet coin (VTC) for instant spermicidal action as local vaginal contraceptive and microbicide	Jharkhand
115.	Prof. Sneha Komath, Jawaharlal Nehru University	The role of Eri1 (ER-resident Ras inhibitor 1) in controlling filamentation of C. Albicans	New Delhi
116.	Dr. Rupinder Kaur, Centre for DNA Fingerprinting and Diagnostics, Hyderabad	Elucidating signalling mechanisms that govern iron homeostasis and host adhesion in Candida glabrata	Telangana
117.	Dr. Puran Sijwali, Centre for Cellular and Molecular Biology, Hyderabad	Investigation of the role and structural basis for function of Plasmodium falciparum vacuole membrane protein	Telangana
118.	Dr. Soumen Basak, National Institute of Immunology, New Delhi	Investigating how inflammatory NF-kappaB activity in macrophages modulates Chandipura virus	New Delhi

		pathogenesis.	
119.	Prof. Umesh Varshney, Indian Institute of Science, Bengaluru	Role of MutT1 in two-component signaling (TCS) mediated regulation of gene expression, nucleotide homeostasis, and in survival fitness of Mycobacterium tuberculosis	Karnataka
120.	Dr. Sangita Mukhopadhyay, Centre for DNA Fingerprinting and Diagnostics, Hyderabad  Dr. Sudip Ghosh, ICMR-National Institute of Nutrition, Hyderabad	Role of PPE2 protein of Mycobacterium tuberculosis in the modulation of adipose tissue function and development of insulin resistance.	Telangana
121.	Prof. Rajendra Prasad, Amity University, Gurgaon  Dr. Peer Abdul Haseeb Shah, University of Kashmir, Srinagar	Sugar Transporters are new determinants of drug resistance in Candida auris	Haryana  Jammu & Kashmir
122.	Prof. Milan Surjit, Translational Health Science and Technology Institute, Faridabad  Dr. Ambadas Rode, Regional Centre For Biotechnology, Faridabad	Development of a circular RNA vaccine formulation co-targeting the Hepatitis A and Hepatitis E viruses	Haryana
123.	Dr. Uddipan Das, All India Institute of Medical Sciences, New Delhi	Structural Insights into Mycobacterium tuberculosis Multidrug Transporter	New Delhi
124.	Prof. Prasenjit Guchhait, Regional Centre For Biotechnology, Faridabad	Investigating the role of platelet factor 4 and CXCR3 in dengue infection in mice with/without diabetes	Haryana
125.	Dr. Krishnamurthy Natarajan, Dr. B.R. Ambedkar Center for Biomedical Research, New Delhi	Deciphering the role of potassium ion channels during mycobacterial infection	New Delhi

126.	Dr. Kushagra Bansal, Jawaharlal Nehru Centre For Advanced Scientific Research, Bangalore	Evaluation of Topoisomerase 1 as a potential host-directed therapeutic target to treat Sepsis	Karnataka
127.	Dr. Rajesh Chandramohana das, Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram	Functional Dissection of Host Protein Import by Plasmodium for non- metabolic purposes	Kerala
128.	Dr. Yogesh Karpe, Agharkar Research Institute, Pune	Demystifying the impact of virus infection on the blood coagulation system and exploring the possibility of drug repurposing to treat viral diseases	Maharashtra
129.	Dr. Charu Sharma, Institute of Microbial Technology, Chandigarh	Identification of novel inhibitors of aminoglycoside acetyltransferase, MtbEis, causing drug resistance in Mycobacterium tuberculosis	Chandigarh
130.	Dr. Abhisheka Bansal, Jawaharlal Nehru University, New Delhi	Exploring molecular mechanism of glycosylphosphatidylinositol anchored proteins belonging to 6-cys family in asexual erythrocytic development of malaria parasite	New Delhi
131.	Dr. Ramandeep Singh, Translational Health Science and Technology Institute, Faridabad	Deciphering the role of trans encoded sRNA mediated gene regulation in stress adaptation and pathogenesis of M. tuberculosis	Haryana
132.	Dr. Niraj Kumar, Translational Health Science and Technology Institute, Faridabad	Identification of novel and potent growth-inhibiting plasma-proteins	Haryana
133.	Dr. Chiranjib Pal, West Bengal State University, Kolkata	Influence of malaria-non- transmitting mosquito bites on the pathogenicity of Plasmodium vivax in human hosts	West Bengal
134.	Dr. Sudipta Das, CSIR- Indian Institute of Chemical Biology, Kolkata	Evolution of cargo transport by dynein motors: a potential anti- malaria drug target	West Bengal

135.	Dr. Anmol Chandele, International Centre For Genetic Engineering and Biotechnology, New Delhi  Dr. Naveet Wig, All India Institute of Medical Sciences, New Delhi	Investigating the pathophysiological role of CD8 T cells in dengue disease	New Delhi
136.	Prof. Surajit Ghosh, Indian Institute of Technology, Jodhpur	Apta-Sensor Based Microchannel Device for Early Detection of SREBP2/APOe4 Expression in High Risk Alzheimer's Disease Condition with Type2 Diabetes Mellitus	Rajasthan
137.	Dr. Anindita Ukil, University of Calcutta, Kolkata	Elucidating the novel role of PGE2 signaling in the differentiation of alternatively activated macrophages and T regulatory cell mediated immunosuppression: from mechanism to therapeutics	West Bengal
138.	Prof. Mahavir Singh, Indian Institute of Science, Bangalore	Regulation of ToxIN, a type III toxin- antitoxin RNP complex, assembly and functions	Karnataka
139.	Dr. Krishnendu Chakraborty, Institute Of Genomics and Integrative Biology, New Delhi	Role of monocytes against antibiotic- resistant Klebsiella pneumoniae infectio	New Delhi
140.	Prof. Amit Singh, Indian Institute of Science, Bangalore	Structural and functional characterization of sulfur metabolism in Mycobacterium tuberculosis	Karnataka
141.	Dr. Manjula Reddy, Centre For Cellular And Molecular Biology, Hyderabad	Mechanistic Insights into the Regulation of Bacterial Cell Wall Remodeling	Telangana
142.	Prof. Vikas Jain, Indian Institute of Science Education and Research, Bhopal	Molecular engineering of mycobacteriophage towards development of anti-tuberculosis therapeutics	Madhya Pradesh
143.	Dr. Basudeb Maji, Bose Institute, Kolkata	High-throughput in vivo Biosynthetic Cyclic Peptide Development Targeting CRISPR Adaptive Immunity in Pathogenic Bacteria to	West Bengal



		Enhance Bacteriophage Therapy against AMR	
144.	Dr. Riddhiman Dhar, Indian Institute of Technology Kharagpur	Investigating the emergence of multi-drug resistance from a large-scale laboratory fitness analysis of multi-mutant variants of $\beta$ -lactamase resistance genes	West Bengal
145.	Prof. Kaustuv Sanyal, Bose Institute, Kolkata	Leveraging <i>Candida albicans</i> D-amino acid oxidase inhibition to protect the host from fungal infections	West Bengal
146.	Dr. Pallabi Mitra, Rajiv Gandhi Centre For Biotechnology / RGCB C2, Aakkulam Campus, Cheruvickal	Mechanism and regulation of RNAPII transcription and associated functions by DSIF like complex during <i>Toxoplasma</i> stage differentiation	Kerala
147.	Prof. Pradeepkumar, Indian Institute of Technology, Bombay /Mumbai  Dr. Amit Sharma, International Centre for Genetic Engineering and Biotechnology, New Delhi	Development of novel insecticides against <i>Anopheles culicifacies</i> by harnessing phenylalanyl tRNA synthetase (AcFRS) as a target for controlling malaria	Maharashtra  New Delhi
148.	Dr. Agam Singh, National Institute of Immunology New Delhi-110067  Prof. Brijesh Rathi, Delhi University, North Campus Delhi	Toxicity, Efficacy and Pharmacokinetic study of anti-malarial compound NII-5D in Non human primate model (Rhesus Monkey)	New Delhi
149.	Dr. Sai Chaitanya Chiliveri, Indian Institute of Technology, Kanpur	Unraveling the Initiation Events of Viral Assembly: Insights from the Membrane-Bound Structure of the Capsid in Kyasanur Forest Disease Virus	Uttar Pradesh
150.	Prof. Udaykumar Ranga, Jawaharlal Nehru Centre For Advanced Scientific Research, Bengaluru	The convergence of the Classical and Alternative NF- $\kappa$ B pathways confers replication advantage on HIV-1C	Karnataka

151.	Dr. Rupesh Dash, Institute of Life Sciences, Bhubaneswar	Decoding epigenetic landscape of drug resistance in colorectal carcinomas (CRC)	Odisha
152.	Prof. Sudhanshu Vrat, Regional Centre For Biotechnology, Faridabad	Identification and characterization of the host proteins binding specifically to Chikungunya virus genomic RNA and their role in virus replication	Haryana
153.	Prof. Jayasri Das Sarma, Indian Institute of Science Education and Research, Kolkata	The role of Ifit2 in regulating glial cell function during neurotropic murine coronavirus infection	West Bangal
154.	Dr. Indranil Banerjee, Indian Institute of Science Education and Research, Mohali	Systematic evaluation of the vesicle-tethering TRAPP complex components as potential antiviral targets against influenza	Punjab
155.	Prof. Sharmistha Banerjee, University of Hyderabad Gachibowli, Hyderabad-500046.	Intrinsic Mechanisms and Counter-Mechanisms Of Interferon-Inducible Non-Canonical Effector Functions Of Karyophilic Proteins In Cell-Autonomous Immunity Against Retroviruses	Telengana
156.	Prof. Simanti Datta, Institute of Postgraduate Medical Education and Research, Kolkata	Decoding the phenotypic, functional and metabolic variability of neutrophils during the progressive stages of chronic HBV infection	West Bangal
157.	Dr. Dibyendu Das, Indian Institute of Science Education and Research, Kolkata Kolkata, Mohanpur 741246	Chemotactic Peptide-Based Microswimmers for Biotechnological Applications	West Bangal
158.	Dr. Sayantan Dutta, Indian Institute of Technology, Bombay  Dr. Tapomoy Bhattacharjee, National Centre for Biological Sciences, Bangalore	Designing structured tissues by directed self-assembly of cells using bio-printing and computational tissue engineering	Maharashtra  Karnataka
159.	Dr. Swathi Sudhakar, Indian Institute of Technology, Madras,	Engineering nanoarchaeosome-peptide complexes for osteoprotection	Tamil Nadu

	Chennai	in space: A Bone-on -chip study	
160.	Dr. Renu John, Indian Institute of Technology, Hyderabad/	Development of Liver-on-chip models for in vitro liver disease modelling studie	Telangana
161.	Dr. Dhandapany Perundurai, Institute for stem cell biology and regenerative medicine, Bangalore,	Novel molecular mechanisms of heart failure using pre-clinical models including human organoids and mice	Karnataka
162.	Dr. Manas Kumar Santra, National Centre for Cell Science, Pune,	Deciphering the cellular role of Lysine-33 linked ubiquitination	Maharastra
163.	Dr. Swasti Raychaudhuri, Centre For Cellular and Molecular Biology, Hyderabad,	Import diversity and assembly mechanisms of respiratory complex I	Telangana
164.	Prof. B Padmanabhan, National Institute of Mental Health & Neuro Sciences, Bengaluru,	Structural, biochemical, and antimicrobial investigations to elucidate the molecular mechanism of the Staphylococcus aureus PlyGRCSendolysin in association with Cold Shock Protein C (CspC): A potential biotherapeutic target for MRSA infection treatment	Karnataka
165.	Dr. Partha Laskar, GITAM Deemed to be University, Visakhapatnam,	Lab-in-cell based intracellular polymerization-induced self-assembly of chemotherapeutic drugs for cancer therapy	Andhra Pradesh
166.	Dr. Nirupma Trehanpati, Institute of Liver & Biliary Sciences, New Delhi	Microbiome and Metabolite Dynamics Influence Immune Metabolism and HbsAg Seroconversion in Hepatitis B Reactivation	New Delhi
167.	Dr. Ishwariya Venkatesh, Centre For Cellular and Molecular Biology, Hyderabad,	Stem cell-based approach to improve functional outcomes after spinal injuries	Telangana
168.	Dr. Mathew Peter, Manipal Institute of Technology, Manipal,	Evaluating the Regenerative Potential of Mesenchymal Stem Cells in 3D Scaffolds: A Preclinical Perspective	Karnataka

169.	Dr. Prasad Bharat Abnave, National Centre for Cell Science, Pune,	Infection-driven hematopoiesis: molecular mechanisms governing stem cell fate, function, and memory	Maharashtra
170.	Dr. Bhupendra Kumar Verma, All India Institute of Medical Sciences, New Delhi	Mechanistic basis of Dengue virus induced thrombocytopenia: insights from the in-vitro and in-vivo studies	New Delhi
171.	Dr. Ranabir Dey, Indian Institute of Technology, Hyderabad,	Self-propelling droplet-based microswimmers for drug delivery in tumour microenvironment	Telangana
172.	Dr. Sutharsan Govindarajan, SRM University, Amaravati	Decoding bacteriophage nucleus-like compartments and their evolution	Andhra Pradesh
173.	Dr. Sachit Anand, All India Institute of Medical Sciences, New Delhi	Gut Microbiome-Metabolome Signatures and T-cell Immune Profiles in Children with Congenital Uropathies having chronic kidney disease: Exploring the Immune–Microbial Crosstalk in Disease Progression	New Delhi
174.	Dr. Debasis Das, Indian Institute of Science, Bangalore,	Towards Developing a New Generation of Enzyme-Based Therapeutics to Combat Biofilm-Associated Antimicrobial-Resistant Infections	Karnataka
175.	Dr. Apurba Kumar Sau, National Institute of Immunology, New Delhi	Understanding the biochemical and functional role of Helicobacter pylori EngA: A ribosomal assembly GTPase	New Delhi
176.	Dr. Debjit Khan, GITAM Deemed to be University, Bengaluru,	Translation Activation by SPEAR RNA-elements in 3' Untranslated Regions of Viral RNAs: A Potential Target of Antiviral Therapy	Karnataka
177.	Dr. Sheetal Gandotra, Institute of Genomics and Integrative Biology, New Delhi	Mycobacterial phospholipid remodeling in control of host inflammation	New Delhi
178.	Prof. Ruchi Anand, Indian Institute of Technology Bombay, Mumbai,	Cryo-EM and Single Molecule Techniques as Emerging Technologies to Combat Methyltransferase-mediated Antibiotic Resistance	Maharashtra

179.	Dr. Sunil Kumar Raghav, Institute of Life Sciences, Bhubaneswar, Odisha  Dr. Bhawna Gupta, Kalinga Institute of Industrial Technology, Bhubaneswar	Role of nuclear receptor co-repressor 1 (ncor1) in Mycobacterium tuberculosis pathogenesis	Odisha
180.	Dr. Deepesh Kumar, Indian Institute of Technology BHU, Varanasi  Prof. Yamini Keshavprasad Belur, National Institute of Mental Health and Neuro Sciences, Bengaluru	Artificial Intelligence-powered Virtual Reality-based Language- Speech Training System for Patients with Post-stroke Aphasia with and without Dysarthria	Uttar Pradesh  Karnataka
181.	Prof. Kausik Chattopadhyay, Indian Institute of Science Education and Research, Mohali,	Study of the effect of Vibrio cholera cytolysin in modulating cholesterol metabolic pathways and its implications for the cell death and survival response generation upon exposure to the toxin	Punjab
182.	Dr. Arindam Mondal, Indian Institute of Technology, Kharagpur,	Characterization of the role of Human DEAD Box RNA Helicase 3X (DDX3X) in regulating influenza virus replication and host immune response	West Bengal
183.	Dr. Santosh Chauhan, Centre For Cellular And Molecular Biology, Hyderabad,	Anti-microbial and immune functions of a lipid droplet resident immunity- related protein	Telangana
184.	Dr. Mohanan Valiya Veetil, Institute of Advanced Virology, Trivandrum,	Identification of novel cellular factors and their functions in Nipah virus entry	Kerala
185.	Dr. Kongara Hanumantha Rao, GITAM (Deemed to be University)Visakhapatnam,	Understanding the Role of Arrestin- Related Trafficking adaptor (ART) Proteins in Endosomal Trafficking of Candida albicans for Development of Novel and Alternative Anti-fungal Therapy	Andhra Pradesh

186.	Dr. Saravanan Palani, Indian Institute of Science, Bangalore,	Elucidating the molecular intricacies of the actin cytoskeleton of a human pathogenic fungus <i>Cryptococcus neoformans</i>	Karnataka
187.	Dr. Asif Mohmmmed, International Centre for Genetic Engineering & Biotechnology, New Delhi  Dr. Sumit Rathore, All India Institute of Medical Sciences, New Delhi	Development of short chain variable fragments (scfv) based humanized therapeutic antibodies targeting <i>Plasmodium vivax</i> infected host cell surface expressed proteins	New Delhi
188.	Dr. Manish Soneja, All India Institute of Medical Sciences, New Delhi  Dr. Nimesh Gupta, National Institute of Immunology, New Delhi	Investigating the Role of Tfh Cells in Shaping Humoral Immunity in Dengue	New Delhi
189.	Dr. Anwar Alam, Sharda University, Greater Noida,	Development of multi-epitope vaccine, using the immunogenic M. tb proteins for generating memory response and boosting trained immunity for protection against <i>Mycobacterium tuberculosis</i>	Uttar Pradesh
190.	Dr. Budhaditya Mukherjee, Indian Institute of Technology, Kharagpur,	Exploring selective lipid trafficking, tethering and transfer mechanism in providing fitness gain to drug resistant clinical isolates of <i>Leishmania donovani</i>	West Bengal
191.	Dr. Meetali Singh, Indian Institute of Science, Bangalore,	Investigating the function of an ancestral RNA dependent RNA Polymerase of neglected parasite <i>Toxoplasma gondii</i> and its potential as a therapeutic target	Karnataka