

Ongoing CSIR & Extramural Projects (2024-25)

Sl. No.	Name of the project	Project code	Name of PI	Total Sanctioned Project Cost (Rs. In Lakhs)	Start Date	Completion Date
1	CSIR Integrated Skill Initiative Program	NWP 100 (Phase II)	Dr. P. Jaisankar	343.000	16.10.2020	31.03.2025
2	PAN CSIR CANCER RESEARCH PROGRAM making Cancer care affordable empowering women's health : Focusing on breast and gynaecological cancers of Indian Relevance	HCP 40	Dr. Sib Sankar Roy	1008.100	29.06.2021	28.06.2026
3	Discovery & Pre-clinical Development of Antivirals for COVID-19 & other Diseases.	HCP 41	Dr. Arindam Talukdar	247.000	08.11.2021	31.03.2025
4	Indian Breast Cancer Genome Atlas	HCP 43	Dr. Shilpak Chatterjee	22.750	02.11.2021	31.03.2026
5	Phenome India-CSIR Health Cohort Knowledgebase	HCP 47	Dr. Partha Chakrabarti	1044.360	31.08.2022	31.03.2027
6	CSIR JIGYASA 2 Virtual Laboratory Integration Project	HCP 101	Dr. Sarita Ghosh	12.500	27.07.2022	31.03.2026
7	Innovative processes and technologies for Crop Protection Chemicals (Agromission 2)	HCP 49	Dr. Indrajit Das	199.888	11.04.2023	31.03.2026
8	Active Pharmaceutical Ingredients for Affordable Health Care (API-AHC)	HCP 50	Dr. Indu Bhushan Deb	168.000	03.07.2023	02.07.2025
9	Deriving a pan-omics diagnostic pipeline for systems level immune health and therapeutic targeting in systemic autoimmunity	MLP135	Dr. Dipyaman Ganguly	370.000	03.03.2021	31.03.2025
10	Leishmaniasis: Target specific approaches to affect host-pathogen interaction and disease process	MLP136	Dr. Subrata Adak	300.000	03.03.2021	31.03.2025
11	Modern innovative solutions for Environmental/ Occupational Lung Health challenges using clinical and pre-clinical strategies	MLP137	Dr. U Mabalirajan	406.000	03.03.2021	31.03.2025
12	Non-alcoholic Fatty Liver Disease (NAFLD): Novel Pathogenetic mechanism and therapeutic development	MLP138	Dr. Partha Chakrabarti	499.490	03.03.2021	31.03.2025
13	Targeting RNA driven processes: Novel Chemical Biology Approaches to Identify New Classes of RNA Modulators	MLP139	Dr. Suwendra Nath Bhattacharya/ Dr. Sanjay Dutta	410.000	03.03.2021	31.03.2025
14	Development of PROTACs for Targeted Protein Degradation via Small Molecule-Protein Engineering: A Promising New Approach for Treating NAFLD/NASH	FTT070504	Dr. Arindam Talukdar	147.000	01.04.2024	31.03.2026
15	Phytopharmaceutical Mission, Phase III	MMP075201	Dr. Deepak Kumar/Dr. Umesh Prasad Singh	180.760	18.03.2024	31.03.2027
16	A comprehensive approach to address Antimicrobial resistance AMR	MMP075202	Dr. Sanjay Dutta	495.140	01.08.2024	31.03.2027
17	SMASH-ACT: Small Molecule mTOR modulation for Adoptive T cell Therapy (ACT)	FBR070304	Dr. Shilpak Chatterjee	69.900	01.04.2024	31.03.2026
18	Vesicular Transmission of Flavivirus & Its Role in Neurodegeneration	FBR070305	Dr. Sourish Ghosh	69.440	01.04.2024	31.03.2026
19	Mechanistic understanding of tumor suppressor role of human EAF1 in renal cell carcinoma through regulation of selective expression of apoptotic genes.	FIR070304	Dr. Debabrata Biswas	99.000	01.04.2024	31.03.2026
20	National facility for secondary and tertiary (preclinical validation) screening of small molecules and phytopharmaceuticals against India's dominant diseases	FCP512406	Dr. U Mabalirajan	534.000	01.04.2024	31.03.2026
21	Identification of modulators from natural origins that impede β -amyloid induced proteasome inhibition	RDSF000001	Dr. Joy Chakraborty	25.300	01.04.2024	31.03.2025
22	Deciphering the crosstalk between hepatic steatosis and Atherosclerosis: Modulating the AEBP1-PPAR γ axis in maintaining cholesterol Homeostasis	RDSF000002	Dr. Dhableswar Patra	24.700	01.04.2024	31.03.2025
23	Seeding excellence: advancing cellular therapies for key Indian diseases	RDSF000003	Dr. U Mabalirajan	30.000	01.04.2024	31.03.2025
24	Optimizing Guanosine-based Biomaterial Synthesis with Machine Learning for Artificial Skin Generation	RDSF000004	Dr. Manish Debnath	20.000	01.04.2024	31.03.2025
25	The steroid sensitizing role of RXR-Gamma, a nuclear receptor, in the pathogenesis of emphysema	GAP-432	Dr. U. Mabalirajan	28.290	05.02.2021	04.07.2024
26	Exploring the role of DNase1L3in obesity -associated metaflammation and type2 diabetes	GAP-433	Dr. Dipyaman Ganguly	26.410	01.03.2021	30.06.2024
27	Adipose tissue-Beta cell axis in the pathophysiology of Non-obese Type 2 Diabetes : Role of Adipokines	GAP-434	Dr. Partha Chakrabarti	24.560	29.03.2021	24.09.2024

28	Understanding the role of translesion DNA synthesis in chemoresistance of lung adenocarcinoma	GAP-435	Dr. Amit Kumar Srivastava	20.300	16.03.2021	15.03.2024
29	SERB-POWER Fellowship	GAP-436	Dr. Upasana Ray	38.100	30.03.2021	29.03.2024
30	Regulation of trophoblast development and placental pathophysiology by long non-coding RNA	GAP-437	Dr. Rupasri Ain Dr. Partha Chakrabarti	51.866	12.07.2021	11.07.2024
31	Evaluation of cytotoxicity, pharmacokinetics, anti-cancer activity, detailed molecular mechanisms of Bhallatakadi Modaka	GAP-438	Dr. Amit Kumar Srivastava	23.916	12.11.2021	11.11.2023
32	Development of visible-light photoredox and transition metal dual catalytic alkene difunctionalization reactions	GAP-439	Dr. Ranjan Jana	25.056	20.12.2021	19.12.2024
33	Translocation and regulation of an unusual novel PAS domain containing phosphoglycerate kinase in Leishmania	GAP-440	Dr. Subrata Adak-	35.748	30.12.2021	29.12.2024
34	Understanding the regulatory role of co-activator binding protein PIMT in the pancreatic Beta cells of diabetic animals and T3c diabetic (chronic pancreatitis) humans	GAP-441	Dr. Partha Chakrabarti	12.960	31.12.2021	30.12.2024
35	Evaluation of insulin-like growth factor 2 (IGF2) as a potential epigenetic biomarker and therapeutic target to abolish the metabolic memory in diabetic retinopathy	GAP-442	Dr. G Senthil Kumar	37.740	26.12.2021	25.12.2024
36	Clinical role of a pair of novel mutations in BCR-ABL1 towards therapy switch in imatinib-resistant chronic myeloid leukemia	GAP-443	Dr. Arindam Talukdar	79.930	04.02.2022	03.02.2025
37	Functional dissection of Jmjd3 during embryonic and adult hippocampal neurogenesis	GAP-444	Dr. Prem Prakash Tripathi	42.220	23.02.2022	22.02.2025
38	Phase I/III clinical trials of an indigenously-developed hepatitis E vaccine and evaluating its immune correlates	GAP-445	Dr. Dipyaman Ganguly	57.800	09.02.2022	30.11.2024
39	In quest of novel drug targets : Investigation on structural dynamics of the mycobacterium ribosome using high-resolution cryo-electron microscopy	GAP-446	Dr. Jayati Sengupta	38.100	28.03.2022	27.03.2025
40	Platform integration for high through-put multi omics data analysis and text processing	GAP-447	Dr Sucheta Tripathy	227.214	07.03.2022	06.03.2027
41	Development of genetically engineered 'off-the-shelf' and inducible CAR-T cells for Cancer therapeutics	GAP-448	U Mabalirajan	53.970	24.06.2022	23.06.2025
42	Membraneless nuclei demixing by surfactant proteins and phase separation during asymmetric nuclear division of intraerythrocytic closed mitosis of Plasmodium Falciparum	GAP-450	Dr.Sudipta Das	84.311	04.10.2023	03.10.2026
43	Identification and characterization specific genes/metabolites linked with Rancidity and their Bioavailability Patterns in landraces and elite cultivars of pearl millet for the development of Nutri-Rich products	GAP-451	Dr. U Mabalirajan	20.984	26.08.2022	25.08.2025
44	Investigation of the regulation of plant immunity by sphingolipids in rice	GAP-452	Dr. S Behra	27.769	13.12.2022	12.12.2024
45	Exploring the heterogeneity of systemic lupus patients based on antibodies distribution and multi-omics approaches compared in two ethnic cohorts	GAP-453	Dipyaman Ganguly	94.400	01.04.2023	31.03.2026
46	Hemostat : A lifesaving bandage for faster Blood Arrest	GAP-454	Dr. Sujoy Das	32.300	12.01.2023	25.07.2025
47	Anticancer potential and Molecular Mechanism of Rasa sindhoor on Ovarian Cancer Cells	GAP455	Dr. Amit Kumar Srivastava	40.640	05.01.2023	30.04.2025
48	Genomic Surveillance program for SARS-CoV-2: Consortium of India and Sri Lanka	GAP-456	Dr. Siddik Sarkar	45.000	07.11.2022	06.11.2023
49	Evaluation of Anti-Cancerous potential in silico pharmacological analysis and molecular mechanism of Kanchanar guggulu in ovarian cancer μ Tumor spheroids, and in In-vivo model	GAP-457	Dr.Amit Srivastava	44.648	10.03.2023	30.04.2025
50	Determination and analysis of biological activities of Identified Molecules from Mistletoe	SSP-458	Dr. P Jaisankar	21.240	01.02.2023	31.01.2025
51	Single molecule studies of transcription-translation coupling in bacteria	GAP-459	Dr. Abhishek Mazumder	357.280	01.01.2023	31.12.2027
52	Evaluating the epigenetic adaptatoin of COL4A1, COL4A2 as a potential therapeutic target for early pathological events in diabetic retinopathy	GAP-460	Dr. G Senthil Kumar	28.428	20.03.2023	19.03.2026
53	Mycoremediation of Toxic Heterocyclic Organosulfur Compounds : Multi 'Omics' Approach to Unravel the Novel Biodesulfurization pathway(s) in the Filamentous Fungus Arthrinium malaysiamun Grown in Presence of 2-Deoxy Glucose (2DG) : Fabrication of Novel Biosorbent for Translational Research	GAP-461	Dr. Sucheta Tripathy	9.15 (IICB PART)	12.12.2022	11.012.2025

54	Utilizing the principles of Co-ordination chemistry to develop combination prodrugs and nanotherapeutics with a Synthetic lethality like concept	GAP-462	Dr. Amit Srivastava	8.370	10.02.2023	09.02.2026
55	Mechanistic understanding of functional role of human TRIM28 and ELL in eukaryotic transcriptional regulation involving NELF complex	GAP-463	Debabrata Biswas	61.765	18.07.2023	17.07.2026
56	Mechanistic understanding of dynamic regulations of SEC functions during genotoxic stress-dependant global transcriptional inhibition and subsequent recovery for efficient DNA repair and cell survival	GAP 464	Dr. Debabrata Biswas	443.240	01.09.2023	31.08.2026
57	Elucidating the structural and functional role of TONSL, a novel histone chaperone and chromatin dependent DNA damage response protein in SPONASTRIME Dysplasia, a rare skeletal dysplasia in human	GAP 465	Dr. Siddhartha Roy	50.261	11.09.2023	10.09.2026
58	Impact of Voltage-dependant anion-selective channel 1(VDAC1) protein mitochondrial shaping and dynamics	GAP 466	Dr. Joy Chakraborty	47.983	04.10.2023	03.10.2026
59	Developing leishmanial kinetoplastid membrane protein-11 as a possible target to block host invasion by Leishmania donovani	GAP 467	Dr. Krishnananda Chattopadhyay	79.560	29.09.2023	28.09.2026
60	Structural characterization of zinc finger MYND domain containing protein with GATAD2A subunit of NuRD complex implicated in Neural Differentiation	GAP 468	Dr. Siddhartha Roy	74.329	21.09.2023	20.09.2026
61	Development of clinical data repository and analysis platform for disease detection and prognosis	GAP 469	Dr. Sucheta Tripathy	16.972	06.11.2023	05.11.2028
62	Exploring the role of Plasmacytoid dendritic cells in Parkinson's Disease	GAP 470	Dr. Dipyaman Ganguly	15.000	28.12.2023	27.08.2024
63	Targeting FOLR1 for treating progressive inflammatory lung disorders such as COPD	GAP 471	Dr. Bijesh P	30.570	27.12.2023	26.12.2025
64	National Network Component	GAP 472	Dr. Sucheta Tripathy	90.164	06.11.2023	05.11.2028
65	Study of infection dynamics of Leishmania donovani in the presence of Lumpy Skin Disease virus : Role of the virus	GAP 473	Dr. Subhajit Biswas	113.460	06.02.2024	05.02.2027
66	Development of antimicrobial peptide tagged nanoformulation for targeted combination therapy against Pseudomonas aeruginosa	GAP 474	Dr. Sujoy Kumar Das	28.130	09.02.2024	08.02.2027
67	Mutation aggregation profiling of Amyotrophic lateral sclerosis (ALS) patients in West Bengal	GAP 475	Dr. Krishnananda Chattopadhyay	65.790	18.01.2024	17.01.2027
68	Development of chemically modified aptamers for targeting neuronal exosomes	GAP 476	Dr. Manish Debnath	27.761	19.02.2024	18.02.2026
69	Role of Mother-Neonate Dyad Interaction in Resolving Pediatric Viral Infection	GAP 477	Dr Sourish Ghosh	354.896	01.03.2024	28.02.2029
70	Chemo preventive effects of Opuntia elatior fruits against Chemotherapy-Induced toxicity in Ovarian Cancer Pre clinical models	GAP 478	Dr. Amit Kumar Srivastava	37.650	22.03.2024	21.03.2026
71	Evaluation of neuroprotective potential of Bhrami Ghrita, Panchgavya Ghrita and Ayush 56 in Epilepsy model, its functional significance and mechanism	GAP 479	Dr. Prem Prakash Tripathi	42.270	22.03.2024	21.03.2026
72	Harnessing epigenetic dependencies for immunomodulation in acute myeloid leukemia	GAP 480	Dr. Amitava Sengupta	100.000	28.03.2024	27.03.2027
73	Understanding nucleosome remodeler plasticity in human acute myeloid leukemia pathogenesis	GAP 481	Dr. Amitava Sengupta	17.000	06.03.2024	05.03.2027
74	Odd-skipped related-1 in cardiac hypertrophy	GAP 482	Dr. Rupasri Ain	57.053	30.04.2024	29.04.2027
75	Functional characterisation of patient derived single cell spheroids from Oral Squamous Cell Carcinoma to decipher clinical heterogeneity: A Tool for drug Screening and Radiation Sensitivity	GAP483	Prof. Vibha Tandon	96.801	04.07.2024	03.07.2027
76	Tuning Lipid Droplets for Antiviral Interventions in Brain	GAP 484	Dr. Sourish Ghosh	79.420	20.05.2024	19.05.2027
77	Understanding the functional role of co-activator binding protein PIMT in macrophage mediated insulins resistance in rodents and humans	GAP 485	Dr. Partha Chakrabarti	31.673	05.07.2024	06.07.2027
78	Long coding RNA signature and function in trophoblast stem cell differentiation	GAP 486	Dr. Rupasri Ain	70.000	11.07.2024	10.07.2027
79	Decoding the epigenetic foot-print in vascular smooth cells induced by trophoblast cells : Implications in placental morphogenesis	GAP 487	Dr. Rupasri Ain	71.200	23.09.2024	22.09.2027
80	Role of small non-coding RNAs sorted inside extracellular vesicles for RNA persistence	GAP 488	Dr. Sourish Ghosh	38.232	28.10.2024	27.10.2027
81	Reverse pharmacology of traditional medicine using modern biomedical techniques	GAP 489	Dr. P Jaisankar	9.00 (IICB Part)	03.02.2025	08.02.2025
82	Towards Discovery and development of novel drugs and pharmaceuticals	GAP 490	Dr. Deepak Kumar	976.300	27.01.2025	26.01.2027
83	Elucidating the role of aberrant IL-17 neutrophil axis in driving Type 1 diabetes pathogenesis	GAP 491	Dr. Saikat Majumder	72.000	10.03.2025	09.03.2028