

Ongoing Projects during the Financial Year 2025-26

Sr. No.	Project Code	Title and scope of the Projects	Sponsoring Agency	Start Date	Completion Date	Project leader	Duration (Month)	Duration (Years)	Budget
1	BICB	Establishment of Bioinformatics and Computational Biology Center at National Institute of Immunology, New Delhi with the theme of "Structural bioinformatics & genome mining (Applications in biomedical Sciences)"	DBT	26-11-2020	25-11-2026	Dr. Debasisa Mohanty	60	5	2,24,94,438
2	CNGV	INCENTIVE: Indo-European consortium for next generation influenza vaccine innovation	DBT	29-12-2020	28-12-2026	Dr. Prafullakumar B. Tailor	60	5	26,83,22,688
3	DBAG	Designing Bispecific CAR-NK cell targeting Alpha-fetoprotein (AFP) and glypican-3 (GPC-3) present in Hepatocellular carcinoma (HCC)	DBT	17-03-2022	16-03-2026	Dr. Prafullakumar B. Tailor	36	3	10,00,000
4	UDCG	Understanding the dynamic changes in gene expression pattern in neonatal sepsis	DBT	09-03-2021	08-03-2027	Dr. Veena S Patil	42	3.5	3,74,89,562
5	URTD	Understanding the role of PKM2 in transcriptional dysregulation during malignant transformation	DBT	22-12-2021	13-12-2025	Dr. Sanjeev Das	36	3	76,19,400
6	DTCB	Establishment of Data and Impact Analysis Unit for projects in the area of Theoretical and Computational Biology	DBT	17-09-2021	16-09-2026	Dr. Debasisa Mohanty	60	5	1,90,33,152
7	DGMC	Detection of gut microbiota-derived metabolites Colibactin, 4-ethylphenyl sulfate and p-Cresyl through molecularly imprinted polymer-based electrochemical sensor development	DHR	02-02-2022	01-10-2025	Dr. Anil Kumar	36	3	29,64,498
8	MSMV	Multi - stage malaria vaccine candidates for the prevention of Plasmodium falciparum infection in mosquito and pre-erythrocytic development in man	BIRAC	18-08-2021	30-11-2025	Dr. Agam Prasad Singh	42	3.50	1,86,65,000
9	EIPD	Enteropathogenic infections predispose to the development of inflammatory bowel disease (IBD) in diet-induced obesity: Deciphering the "Microbiota code"	RCB	22-12-2020	21-12-2025	Dr. Devram Sampat Ghorpade	60	5	42,50,000
10	NRTC	Nano-immunotherapeutic Approach for Reprogramming of Tumor Cells to Induce Sustainable Anti-tumor Immune Response	RCB	30-04-2021	29-04-2026	Dr. Santiswarup Singha	60	5	42,50,000
11	DMHR	Determine whether mitochondrial helicase RECQL4 affects SIRT3 activity by regulating OXPHOS Complex I stability and assembly	SERB	21-01-2022	20-07-2025	Dr. Sagar Sengupta	36	3	71,25,080
12	IFAP	DST'S INSPIRE Faculty Award Programme	DST	06-09-2021	05-09-2026	Dr. Archana Pant	60	5	1,10,00,000
13	JCRP	J C Bose award Fellowship Renewal to Dr. Pushkar Sharma	SERB	01-04-2022	31-03-2027	Dr. Pushkar Sharma	60	5	95,00,000
14	ESMM	Elucidation of the Signalling and Modulatory Mechanisms for mTORC2-mediated Regulation of Sphingolipid Biosynthesis.	ICMR	13-07-2022	12-01-2026	Mr. Mohammad Nafees Ansari	36	3	5,53,400
15	UPOA	Understanding the pathophysiological links between Osteoporosis and Alzheimer's disease	SERB	31-08-2022	30-08-2025	Dr. Sarika Gupta	36	3	55,26,792
16	DMCT	Determining the mechanism and consequences of inter-regulation between two tumor suppressors: p53 and BLM helicase	DBT	18-10-2022	31-03-2026	Dr. Sagar Sengupta	36	3	80,05,200
17	TCRB	Effect of Altered orientation of CTCF binding sites on Chromatin organization and VDJ recombination at TCRb locus	DBT	16-11-2022	15-11-2025	Dr. Madhulika Srivastava	24	2	48,21,280
18	RPCC	Regulation of Plasmodium Cell Cycle and Cell Division by Protein Phosphorylation	DBT WELCOME	01-01-2023	31-12-2027	Dr. Pushkar Sharma	60	5	8,92,84,903
19	DENV	Structure-based design of small molecule inhibitors that target the E protein of DENV	ICMR	01-03-2023	28-02-2026	Dr. G. Senthil Kumar	36	3	20,06,768

20	EPTB	Towards an evidence-based regimen for treating extra-Pulmonary Tuberculosis (EPTB)	DBT	30-05-2023	29-05-2025	Dr. Aneeshkumar G. Arimbasseri	48	4	50,41,600
21	MPSM	Modulation of protein aggregation by excipients designed with high specificity for the misfolded states	SERB	31-05-2023	30-05-2026	Dr. Sarika Gupta	36	3	17,49,600
22	DRCM	Deciphering how RICTOR/TORC2 regulates one-carbon metabolism to modulate longevity depending on diet containing different Vitamin B12 content	SERB	30-06-2023	29-06-2026	Dr. Amab Mukhopadhyay	36	3	68,92,992
23	GLMS	Glycoproteomic profiling of O-glycosylation of leukosialin (CD43/sialophorin) by mass spectrometry and its role in immunological processes	SERB	13-07-2023	12-07-2026	Dr. Srinivasa Gopalan Sampathkumar	36	3	52,72,992
24	TINB	"Targeting liver-to colon inflammatory axis", a novel strategy to limit diet triggered Inflammatory bowel disease development	ICMR	01-08-2023	31-07-2026	Dr. Devram Sampat Ghorpade	36	3	30,87,053
25	MSPD	Mxenes (Ti3AlC2) assisted 2D material wearable electronic sensor for monitoring the motor symptoms of Parkinson's disease	SERB	18-07-2023	17-07-2026	Dr. Sarika Gupta	36	3	17,52,364
26	UMCD	Understanding the mechanism of muscle mass maintenance in mice lacking vitamin D receptor by a customised diet	DBT	02-09-2023	01-09-2026	Dr. G. Aneeshkumar Arimbasseri	36	3	91,61,539
27	DSBP	Development of Synthetic Binding Proteins as Antibody Mimetic	ICMR	22-09-2023	21-09-2026	Dr. G. Senthil Kumar	36	3	55,81,044
28	RGNC	Regulation of neurodegeneration by non-coding RNA	DBT	03-10-2023	02-10-2026	Dr. Pushkar Sharma	36	3	76,98,080
29	SDSP	Structural and Dynamic studies of SARS-Cov-2 proteins	DBT	19-09-2023	18-09-2026	Dr. G. Senthil Kumar	36	3	69,93,880
30	NPNI	National Network Project of National Institute of Immunology, New Delhi	DBT	09-10-2023	08-10-2028	Dr. Debasisa Mohanty	60	5	1,25,16,000
31	AMTB	Annihilating the function of Histidine metabolic pathway of Mycobacterium tuberculosis for developing new anti-TB molecules	DBT	25-09-2023	24-09-2026	Dr. Bichitra Kumar Biswal	36	3	39,00,000
32	MTBC	Whole Genome Sequencing of MTB Clinical Strains for Determining Drug Resistance and Strain lineage in India: A structured Nationwide approach	DBT	18-10-2023	05-10-2026	Dr. Debasisa Mohanty	24	2	9,61,75,200
33	DTMA	Development of therapeutic broadly neutralizing monoclonal antibodies against circulating HIV-1 clade C in children and adults	DBT	18-09-2023	17-09-2026	Dr. Anil Kumar	36	3	47,76,640
34	MBPC	A Molecular Basis for Assembly- Stimulated Second Phosphate Cleavage of Gtp in A Unique Large Gtpase HGBP1	CSIR	29-09-2023	28-09-2026	Dr. Apurba Kumar Sau	36	3	15,00,000
35	UDBM	Understanding the association and underlying molecular mechanisms of early life 'Double-burden' of malnutrition and non communicable disease risk in adolescence	DBT	10-10-2023	09-10-2026	Dr. Amab mukhopadhyay	36	3	78,02,400
36	JCAM	J C Bose Fellowship to Dr. Amab Mukhopadhyay	SERB	17-11-2023	16-11-2028	Dr. Amab Mukhopadhyay	60	5	95,00,000
37	EATV	Evaluation of the Efficacy of Albumin Gene Therapy Using Adeno Associated Virus 3 Vectors in animal models of Cirrhosis	DBT	03-10-2023	02-10-2026	Dr. Nagarajan Perumal	36	3	16,77,848
38	NPIT	National Network Project of Indraprastha Institutes of Information Technology Delhi	DBT	27-12-2023	26-12-2028	Dr. Debasisa Mohanty	60	5	23,06,400
39	HITD	Helix Invasive approach for targeting of duplex DNA for genetic therapy	SERB	16-02-2024	15-02-2027	Dr. Chhuttan Lal Meena	36	3	46,04,410
40	RSNA	Recalibration of co-stimulatory signals using nano-scale artificial antigen-presenting cells to promote tumor-specific CD8+ T-cells activation	ICMR	12-02-2024	11-02-2028	Dr. Santiswarup Singha	48	4	1,93,28,989

41	IRMI	Managing Research for Uptake at the National Institute of Immunology (IRMI Research Management Grant)	DBT WELCOME	15-03-2024	14-08-2025	Dr. Banya Kar	12	1	9,83,600
42	IIRP	Efficacy of Montelukast in reducing incidence of warning signs and severe disease in patients with dengue fever: a phase 2, double-blind, placebo-controlled, randomized trial.	ICMR	01-03-2024	28-02-2027	Dr. Nimesh Gupta	36	3	24,50,065
43	UDPS	Understanding the interactions of p53, insulin-IGF-1 signaling and FOXO in development, germ cell proliferation, stress and cancer	DBT	12-06-2024	11-06-2027	Dr. Arnab Mukhopadhyay	36	3	1,31,41,840
44	SSBA	Shanti Swarup Bhatnagar Special Honorarium	CSIR	01-04-2023	31-03-2027	Dr. Pushkar Sharma, Dr. Sanjeev Das, Dr. S. Basak	12	1	5,40,000
45	MAMD	Evaluating Medicinal Plants from Northeast India in Mitigating Ailments Associated with Metabolic Dysregulations	DBT	13-06-2024	12-06-2027	Dr. Soumen Basak	36	3	1,96,69,520
46	IMCP	Investigating how inflammatory NF-kappaB activity in macrophages modulates Chandipura virus pathogenesis	DBT	14-06-2024	13-06-2027	Dr. Soumen Basak	36	3	87,70,240
47	TDMP	Towards development of aptamer-based multiplex panel for fecal microbial markers for colorectal cancer diagnosis	DBT	27-06-2024	31-03-2026	Dr. Anil Kumar	18	1.5	52,84,540
48	TMCP	Towards understanding the role of oral microbiota in colorectal cancer progression and carcinogenesis	ICMR	15-09-2024	14-09-2027	Dr. Anil Kumar	36	3	71,77,784
49	MPVX	Multi-stage vaccine candidate for prevention of plasmodium vivax infection in Humans and Blocking Mosquito Development to minimize its community transmission	ICMR	01-01-2024	30-06-2027	Dr. Agam Singh Prasad	42	3.5	82,34,509
50	SCNM	Tools for the differential profiling of sialoglycoconjugates in the central nervous system in mice using disease models	DBT	23-09-2024	22-09-2027	Dr. Srinivasa Gopalan Sampathkumar	36	3	2,00,64,040
51	SCPA	Structural characterisation of oligomeric Helicobacter pylori N-carbamoylputrescine amidase (CPA) to develop novel antibacterial therapy	DST	26-09-2024	25-09-2027	Dr. Akanksha Tomar	36	3	42,63,240
52	MITC	Understanding the molecular and immunological correlates of tuberculosis-induced cachexia under Cachexia TB Program Grand Challenges India (GCI)	BIRAC	13-11-2024	12-11-2027	Dr. Aneeshkumar Arimbasseri	36	3	1,44,26,000
53	BRMM	Comparative Analysis of Immunoglobulin Genetic Diversity in India-Origin Bonnet and Rhesus Macaques, Marmosets, and African Green Monkeys: Potential Non-Human Primate Models for HIV Vaccine Research	ICMR	21-11-2024	20-05-2027	Dr. Anil Kumar	30	2.5	13,13,043
54	DNAS	Design and development of novel long-acting non-steroidal anti-inflammatory and analgesic agent using natural scaffold	DBT	03-12-2024	02-12-2027	Dr. Sarika Gupta	36	3	39,00,000
55	SVDC	Structure-guided engineering of a viroporin-defective Chikungunya virus strain as a live-attenuated vaccine candidate	ICMR	15-01-2025	14-01-2028	Dr. Soumen Basak	36	3	1,00,45,869
56	TSBD	Towards stool-based diagnosis of colorectal cancer by developing multiplex apta-sensor panel	ICMR	24-01-2025	23-01-2028	Dr. Anil Kumar	36	3	1,13,24,424
57	NEGP	Identification of novel and effective therapeutic combinations to control the growth and proliferation of endometrial cancer	DBT	01-10-2024	30-09-2027	Dr. Debasish Kumar Dey	36	3	92,40,000
58	GSDL	Gaining elusive Structural Insights by Deep Learning: Design of modulators of Protein-Protein Interactions	DBT	01-10-2024	30-09-2027	Dr. Sanjeet Kumar Mahtha	36	3	92,40,000
59	RVCI	Repurposing and Validating the FDA-approved UDP-Glucose Ceramide Glucosyltransferase (UGCG) Inhibitor "Eliglustat" as a Potential Intervention for Breast and Oral Cancer Immunotherapy	ICMR	01-02-2025	31-01-2027	Dr. Santiswarup Singha	24	2	19,81,308
60	ABSL	Establishment of new and augmentation of existing (A)BSL3 facilities at the National Institute of Immunology, New Delhi to improve research and diagnostics of existing and emerging bacterial and viral pathogens	DBT	28-04-2025	27-04-2030	Dr. Devinder Sehgal	60	5	2,08,20,292

61	GCDG	Pharmacological chaperones to the rescue of defects in congenital disorders of glycosylation (CDG)	Otsuka Chemicals (India) Pvt Ltd	01-04-2025	31-03-2028	Dr. Srinivasa-Gopalan Sampathkumar	36	3	1,12,39,756
62	AMRC	Developing new anti-TB molecules to overcome anti-microbial resistance crisis	Otsuka Chemicals (India) Pvt Ltd	01-04-2025	31-03-2028	Dr. Bichitra Kumar Biswal	36	3	1,12,41,025
63	BRIC-i3C	Support for the two batches of 'i3C BRIC-RCB PhD Programme'	DBT	08-05-2025	07-05-2031	Dr. Soumen Basak	72	6	4,50,00,000
64	SDTP	Genome to Vaccine: Establishing a Immunological Database for India-Specific Disease Therapeutics and prevention	DBT	09-06-2025	08-06-2028	Dr. Soumen Basak	36	3	70,88,845
65	CART	Manipulating the Chimeric antigen receptor (CAR) to enhance the efficacy of CAR T cells	SERB	09-07-2025	08-07-2028	Dr. Rajesh Kumar Yadav	36	3	58,95,558
66	DOMS	Development, operation, and maintenance of an online electronic project management system for the Department of Biotechnology	DBT	03-09-2025	02-09-2029	Dr. Debasisa Mohanty	48	4	2,75,54,956
67	NOHM	Hands-On Training Program on Immunological Assays for High-Risk and Zoonotic Pathogens - at National Institute of Immunology (NII) under National One Health Mission (NOHM) of the PM-ABHIM	ICMR	19-09-2025		Dr. Nimesh Gupta		0	40,00,000
68	TEPA	Toxicity, Efficacy and Pharmacokinetic study of anti-malarial compound NII-5D in Non human primate model (Rhesus Monkey)	DBT	29-09-2025	28-09-2028	Dr. Agam Prasad Singh	36	3	70,30,000
69	ABPL	Consulting Agreement between NII and ABL	Aevum Bio Labs Pvt Ltd	20-10-2025	19-01-2026	Dr. Soumen Basak	3	0.25	4,84,980
70	JCDM	AI/ML guided data-driven approach for design of immuno-therapeutics & vaccines	SERB	01-11-2025	31-10-2030	Dr. Debasisa Mohanty	60	5	1,17,50,000
71	NPKG	Bifunctional short Immunostimulatory Duplex RNA For Next-Generation Targeted Colorectal Cancer Immunotherapy	SERB	04-12-2025	03-12-2027	Dr. Kasturi Ganguly	24	2	30,96,000
72	NPPG	National Post-Doctoral Fellowship to Mr. Prakhar Agrawal	SERB	10-12-2025	09-12-2027	Dr. Prakhar Agrawal	24	2	30,96,000
73	TADV	To test equine anti-dengue virus immunoglobulins (Collabratree agreement) Consulting Agreement between NII and Bharat Serums and Vaccines Ltd	Bharat Serums and Vaccines Ltd	02-12-2025	01-06-2026	Dr. Nimesh Gupta	6	0.5	21,81,773
74	NPSS	National Post-Doctoral Fellowship to Dr. Shikha Solanki	SERB	24-12-2025	23-12-2027	Dr. Shikha Solanki	24	2	30,96,000
75	IFDS	DST'S INSPIRE Fellowship Award Programme	SERB	27-06-2025	26-06-2030	Ms. Deepakshi Sahu	60	5	5,97,200
76	GSPC	GANANA-India-EU initiative for Scientific High Performance Computing	cs & Information	15-04-2025	14-04-2028	Dr. Narendra Kumar	36	3	1,12,58,000
77	IFVS	DST'S INSPIRE Fellowship Award Programme	DST	27-06-2025	26-06-2030	Ms. Vasu Sharma	60	5	5,97,200
78	DGHD	Delineating the genetic interactions between Histone Demethylases and DNA damage repair genes to develop personalized tumour detection and treatment	ICMR	01-04-2026	31-03-2029	Dr. Rajesh Kumar Yadav	36	3	23,41,058
79	LTMT	Targeting methyltransferases in anti-BCMA CAR-T cells to enhance its antitumor efficacy against multiple myeloma	Lady Tata Memorial Trust	19-02-2026	18-02-2029	Dr. Rajesh Kumar Yadav	36	3	59,35,288
80	DCMD	Decoding the Circadian and Microbial Drivers of Neuroimmune Dysfunction in Chronic Toxoplasma gondii Infection	SERB	21-03-2026	20-03-2029	Dr. Tanmay Majumdar	36	3	65,04,960
81	DTAC	Development of Novel Near Infrared Fluorescent Theranostic Probes Targeting Amyloid & Aggregated and Cholinesterases for the Effective Treatment of Alzheimer's Disease	SERB			Dr. Sarika Gupta	36	3	8,80,000

Closed Projects during the Financial Year 2025-26

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