

Date: 7 March 2025

RESULT

With reference to ICMR's 'First in the World Challenge' call, the following proposals have been provisionally approved for funding, subject to submission of necessary documents and approval from competent authority after satisfactory revisions in the final proposal, if required by ICMR.

Sr. No.	Proposal ID	Title of the proposal	Name of the Principal Investigator (PI)	Institute of the PI
1.	FIW-2024-01-00000296	3D Bioprinted Corneal Stroma for Partial Keratoplasty: A Step Toward Restoring Vision	Dr. Falguni Pati	Indian Institute of Technology, Hyderabad
2.	FIW-2024-01-00000132	A New Approach for Advancing Therapeutics in Inflammatory Bowel Disease: Development of Bioengineered JAK Inhibitor-Based Local Therapy	Dr. Ashok Kumar	Indian Institute of Technology, Kanpur
3.	FIW-2024-01-00000252	First in the World Challenge: A Nasal Spray Formula for Pulmonary Delivery to Control Multidrug-Resistant Tuberculosis MDR-TB	Dr. Natarajan Chandrasekaran	Vellore Institute of Technology, Vellore
4.	FIW-2024-01-00000400	Development of a Rapid Two-Minute Pre-Donation Test using a Single Drop of Blood for detection of Transfusion-Transmissible Infections (TTIs) for Safer Blood Donation	Dr. Amita Gupta	University of Delhi, South Campus, New Delhi
5.	FIW-2024-01-00000480	Artificial Synapses with Nanodust and Proteomics Integration for Targeted Therapy in Neurodegenerative Diseases and Epilepsy	Dr. T. S. Keshava Prasad	Yenepoya (Deemed to be University), Mangalore
6.	FIW-2024-01-00000520	Developing and clinical validation (First in Human studies) of a novel selenium aerosol as a radiation protector against radiation induced Pneumonitis	Dr. Jayant Sastri Goda	Tata Memorial Centre, Mumbai

7.	FIW-2024-01-0000061	Development of novel antiepileptic drug candidates by targeting the neuronal intrinsic inhibitory current generating IKCa channels in acquired epilepsy	Dr. Giriraj Sahu	Indian Institute of Science, Bengaluru
8.	FIW-2024-01-00000135	Development of a transvaginal probe-based dermatoscope with automated AI-enabled decision support for detection of cancers and infections	Dr. Somesh Gupta	All India Institute of Medical Sciences, New Delhi
9.	FIW-2024-01-00000136	Self-organizing ingestible Gelatin Microdevices for Oral Insulin Absorption (SiGMA)	Dr. Sarvesh Kumar Srivastava	Indian Institute of Technology, Delhi
10.	FIW-2024-01-00000151	First-of-Its-Kind PFCNet: AI-Powered Pancreatic Fluid Collection Segmentation, Prediction, and Virtual MRI Generation	Dr. Pankaj Gupta	Postgraduate Institute of Medical Education & Research, Chandigarh
11.	FIW-2024-01-00000175	NIDAAN: Novel AI-enabled Intelligent Detection and Analysis Array for Nephrology in resource-limited settings	Dr. Subhankar Mukherjee	Centre for Development of Advanced Computing, Kolkata
12.	FIW-2024-01-00000195	ENLIGHTEN: Easy Non-invasive detection of Latent tuberculosis Infection in Geographically High Tuberculosis ENdemic areas	Dr. Somdeb Bosedasgupta	Indian Institute of Technology, Kharagpur
13.	FIW-2024-01-00000208	Conversion of diagnostic X-ray systems into therapeutic radiation, mediated by Nano-multi sensitizers through a circadian-oriented approach for the treatment of metastatic solid tumors	Dr. Aravind Kumar Rengan	Indian Institute of Technology, Hyderabad
14.	FIW-2024-01-00000380	Development of an "Universal CAR-NK" Design with Bi-functional Heads for targeting a multitude of tumours and with a provision for Antibody Combination Therapy	Dr. Omar Sherif	Aurigene Oncology Limited, Bengaluru
15.	FIW-2024-01-00000397	Smart Bio-Sensor footwear, a unique device combining multi-sensor, AI-driven healing interventions for the prevention of Diabetic foot Ulcer	Dr. Keval Ramesh Dhone	Datta Meghe Medical College, Wardha

16.	FIW-2024-01-00000454	Utilizing Giardia lamblia Trans-Splicing Mechanisms for Molecular Tool Development and Gene Therapy Advancements	Dr. Utpal Shashikant Tatu	Indian Institute of Science, Bengaluru
17.	FIW-2024-01-00000510	Metabolic engineering of human gut microbiome for improved micronutrient status – a Proof-of-Concept using stable isotopic probes	Dr. Shalini Gajanan Hegde	St John's Medical College Hospital, Bengaluru
18.	FIW-2024-01-00000604	Revolutionizing Neural Regeneration: Developing a 4D Bioprinting Method for Neural Tissue Engineering and Regenerative Therapy	Dr. Goutam Chandra	Interuniversity Centre for Biomedical Research and Super speciality Hospital, Kottayam
19.	FIW-2024-01-00000673	Development of a flow restrictive aqueous drainage implant convertible to continuous flow device for treatment of eyes with glaucoma	Dr. Karthikeyan Mahalingam	Jawaharlal Institute of Postgraduate Medical Education & Research, Puducherry
20.	FIW-2024-01-00000682	Multi-modal Fusion of Tear Fern Patterns and Fundus Imaging for Detection of Glaucoma in Low-resource Settings	Dr. Debashree Guha Adhya	Indian Institute of Technology, Kharagpur
21.	FIW-2024-01-00000718	Development of “Off the Shelf” CD19 targeted engineered lentivirus vectors for making CAR-T and CAR-NK cells in vivo in patients’ body	Dr. Kiran Kundu	Aurigene Oncology Limited, Bengaluru
22.	FIW-2024-01-00000774	Development of nano-material based microfluidic device and metagenome-assembled genomes (MAGs) for rapid diagnosis of neonatal sepsis	Dr. V. V. Rama Prasad Eedara	MNR Medical College & Hospital, Sangareddy
23.	FIW-2024-01-00000788	Targeting Lung cancer cells with Panchagavya conjugated PDL1 blocking peptides through Polyoxometalate (POM) Quantum-Container Derived Liposomes	Dr. Satyendra Chandra Tripathi	All India Institute of Medical Sciences, Nagpur
24.	FIW-2024-01-00000806	Modulating the innate immune system to upregulate the human natural host defense peptides by small	Dr. Mukesh Pasupuleti	CSIR-Central Drug Research Institute, Lucknow

		molecules: An unconventional approach to treat infections in AMR era		
25.	FIW-2024-01-00000897	Design and development of Minimally Invasive Internal cardiac massager device using vine robotics	Dr. Ashok Puranik	All India Institute of Medical Sciences, Guwahati
26.	FIW-2024-01-00000962	Novel safe and effective IgY antibody and conjugated IgY based therapeutic treatment for asymptomatic and symptomatic rabies	Dr. Devanand Kumar	Inte-E-Labs Pvt Ltd, New Delhi
27.	FIW-2024-01-00001093	Design and Development of a Wearable Device with a Computational Model System for real-time detection of mild head and neck injuries for subsequent clinical intervention	Dr. Shailesh Govind Ganpule	Indian Institute of Technology, Roorkee
