

SITARE - GYTI 2020 Award

S.No	Proposal Title	Applicant name	Institute Name
1	A Portable Diagnostic Platform for Rapid Label-free Phenotyping of Breast Cancer	Anil Vishnu G K,	Indian Institute of Science, Bangalore
2	Multipurpose Proctoscope	Siddhant Shrivastava	Indian Institute of Technology Kanpur
3	An Affordable and Easy-to-Use Optical Biosensor for Mannosylated Lipoarabinomannan (manLAM) in Urine for TB Diagnosis	Divagar M	Indian Institute of Technology Madras
4	An Automated Cardiovascular Replicator for Online Assessment of Cardiac Assist Devices, Prosthetics and Beyond	Sumanta Laha	Indian Institute of Technology Kharagpur
5	Development of Poly-unsaturated Fatty Acid PUFA and Antioxidant Rich Vegetable Oil Powder for Healthy Heart	Monalisha Pattnaik	Indian Institute of Technology Kharagpur
6	A User Friendly, Affordable Device for Self Blood Microsampling for Diagnostics and Pharmaceutical Applications	Vaibhav Shitole	National Institute of Pharmaceutical education and Research Ahmedabad
7	Artificial Deep Learning Brain Actuated Lower Limb Exoskeleton For Paralyzed	Vinoj P.G	SCMS School Of Engineering & Technology, Kerala
8	Nanofiber Yarn Suture: A Medical Device	Arthi Sunil Richard	Indian Institute of Technology Madras
9	Development of Electrochemical Impedance based Aptasensor for Semen sorting in Cattle	Sumit Kumar Singh	National Dairy Research Institute
10	A Novel, Low-cost, Non-invasive Eye Tracker Using Fiber Optic Sensor	Shweta Pant	Indian Institute of Science Bangalore
11	Frustum CAM in Medical Ventilators	Prem Dakshin	Birla Institute of Technology and Science, Pilani
12	Continuous Monitoring of Gasotransmitters for Early Stage Management of Systemic Inflammatory Response Syndrome (SIRS) Using Microfluidics Platform	Ravindra Gaikwad	Indian Institute of Technology Madras

13	A Non-Electric and Affordable Surface Engineered Particle Based Point-of-Use Water Disinfection	Deepa Dixit	Indian Institute of Technology Gandhinagar
14	Nanotechnology Based Intranasal Spray Formulation for the Effective Treatment of the Alzheimers Disease	Shivraj Vasantrao Naik	Institute of Chemical Technology, Mumbai

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15	An Inexpensive Deep Tissue Blood Flow Measurement System Using Low Frame Rate Camera	Murali K	Indian Institute of Technology Bombay
16	A Novel CD4 cell Count Method for HIV Infected Patients Using a Hematology Analyzer	Rajesh Srinivasan, Vikram S, Niraj N Jadhav	Indian Institute of Science, Bangalore
17	AbleFit: Wearable Device for Orthopedic and Neurological Disorders Patients	Gunjan Patel	Indian Institute of Technology Madras
18	MOKSH-Convert Crop Waste into Wealth	Amrinder Singh, Gurditt Singh, Varinder Singh Nitika Dhingra	Chitkara University Punjab
19	A Method and a System for Remotely Controlled Manipulation of Nanomaterials in Fluids	Souvik Ghosh	Indian Institute of Science, Bangalore
20	Development of Patient Specific Customized Shape Vascular Stent by 3D Printing Technology	Jasvinder Singh, Gurminder Singh	Indian Institute of Technology Madras
21	Sediment Microbial Fuel Cell as a Renewable Power Source in Remote Area	Jeetendra Prasad	Motilal Nehru National Institute of Technology, Allahabad

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22	Real-time Ultrasound-Based Acoustic Parameter Imaging to Track Spatio-temporal Evolution of Hotspot in High Intensity Focused Ultrasound and Microwave Hyperthermia	Aliarshad Kothawala	Indian Institute of Technology Madras
23	Tannin-based Mouth Fresheners	Sonali Naik	National Chemical Laboratory , Pune
24	Development of Protocol of Commercial Cultivation of Nobel Wild Edible Mushrooms of Tripura, Northeast India and Evaluation of their Biological Properties	Sanjit Debnath	Tripura University, Tripura

25	A Low Cost Passive Micro Device for Platelet Rich Plasma PRP Separation from Human Blood	Vijai Laxmi	Indian Institute of Technology Bombay
26	Breath Volatile Organic Compound Detection Using Conducting Polymer Coated Chemiresistive Filter Paper Sensors	Aswathy M. Nair	Indian Institute of Technology Bombay
27	Production of Bioactive Chicken IL-17A by Genetically Engineered Food Grade Lactic Acid Bacteria Lab : From Gene to Biomedical Application in Poultry	Aritraa Lahiri	Indian Institute of Science Education and Research- Kolkata
28	Development of Sustainable Antimicrobial Wrapping Material from Biopolymers	Puja Kumari	Indian Institute of Technology Madras
29	Crop Productivity and Related Value Addition Black Rice by Co-inoculation with Nanoembedded Mycorrhizal Fungus <i>Piriformospora Indica Serendipita</i>	Shubhangi Mahajan	Amity University, Noida
30	Colorimetric Yes/No Type Swab Based Detection of Pesticides on Agricultural Produce	Tathagata Pal	Indian Institute of Technology Bombay
31	Development of Polymer Based Nano Medicine for the Treatment of Cerebral Malaria	Sukanya Patra	Indian Institute of Technology (BHU), Varanasi
32	Smart Gloves for Assisted Physiotherapy	Krishna Sivanand	Kumaraguru College Of Technology, Coimbatore

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33	Disposable Onsite kit for Discriminating Raw/Synthetic/Pasteurized Milk Based on Alkaline Phosphatase Indicator	Kuldeep Mahato, Buddhadev Purohit, Ashutosh Kumar	Indian Institute of Technology Guwahati
34	A Ready-to-use Haemostatic Bandage for Military and Civilian Trauma Care	Syed Muntazir Andrabi	Indian Institute of Technology Kanpur
35	Design of an Indigenous Atmospheric Water Generator for Economical Production of Drinking Water in the Water Scarce HILLY, Arid and Coastal Regions	Bukke Vani, Sajja. S. Chandrasekhar, Dileep Kumar Fothedar, D. Vaishnavi, Shiva Prasad Nandala, M. Madhumala, Karishma Mishra,	CSIR - Indian Institute of Chemical Technology Telangana

36	Self-sustainable E-waste Recycling: Generating Wealth from Waste via Zero Discharge Technology	Prashant Ram Jadhao, Ramdayal Panda, Snigdha Mishra	Indian Institute of Technology Delhi
37	Smart, Flexible, and Multi-Functional Thermal and Energy Management Systems for Next-Generation Electronic Devices	Sri Ganesh Subramanian	Indian Institute of Technology Kharagpur
38	Harvesting Delayed Fluorescence in Mn-doped Perovskite Quantum Dots Using Vibrationally Assisted Delayed Fluorescence (VADF)	Pradeep K R	Jawaharlal Nehru Centre For Advanced Scientific Research Bangalore
39	Design of Acetone Breath Gas Analyzer in the Evaluation of Diabetes Mellitus	Ramji K.	SRM University Chengalpattu
40	Design and Development of Advanced CNC Micro-machining System	Ashish Kumar Sahu, Harish Kumar, Hardik Arvindbhai Patel Jitin Malhotra	Indian Institute of Technology Delhi
41	Not-IS : A Currency Identification Aid for the Visually Impaired in India	Sri Navya Kondaveeti	Indian Institute of Technology Bombay
42	Recovery of Lithium Cobalt and Manganese Values from Discarded Lithium-Ion Batteries	Singh Rahul Kumar Sunil	Indian Institute of Technology Roorkee
43	Electrical Power Generation from Wet Textile	Sankha Shuvra Das, Vinay Manaswi Pedireddi	Indian Institute of Technology Kharagpur
44	Development of New Electro-mechanical Muscle Fatigue Measurement Device	Parth Joshi, Poojan Gajjar	Indian Institute of Technology Jodhpur
45	Highly Sensitive, Scalable Reduced Graphene Oxide with Palladium Nano-composite as Strain Sensor	Suresh Nuthalapati, Vijay Shirhatti, Vaishakh Kedambaiboole	Indian Institute of Science, Bangalore
46	Development of Sustainable Mosquito Repellent Cum Multifunctional Textile using Microencapsulation of Essential oils	Nagender Singh	Indian Institute of Technology Delhi
47	Deposition Reactor Designed for Low cost Low-temperature Deposition of High-quality Oxides Films for Next Generation Electronics	Vivek Singh	Indian Institute of Science, Bangalore
48	A Machine Learning Package to Design Novel Functional Glasses	Ravinder, Hargun Singh Grover, Suresh, Sourabh Singh	Indian Institute of Technology Delhi