



# Report of Industry, Innovation and Infrastructure

**9** INDUSTRY, INNOVATION AND INFRASTRUCTURE





## **Biotech hackathon showcases talents.**

As many as 55 teams from different institutes across India explored various unsolved problems of society at the Manipal Biotech Hackathon 2021 held recently in Manipal. The hackathon was jointly conducted by Government of Karnataka Bioincubator supported by Manipal Academy of Higher Education (MAHE), Karnataka Innovation and Technology Society (KITS) and BIRAC, Department of Biotechnology (DBT) and Manipal School of Life Sciences, (MAHE), Manipal. A team of Anjali Warriar, Apoorva Jnana and Chandini Sachdeva from Manipal School of Life Sciences won the first prize for the concept of Bioluminescence-based non-invasive monitoring of diabetes. Veena Lohiya, Babhitha Balaji and Dickson Paschal from Jain Deemed University won the second prize for their concept of a rapid diagnostic kit for the detection of coffee diseases. The third prize was won by two teams, one from MAHE, Manipal, and the other from Basaveshwar Engineering College (A), Bagalkot, working on the Aptamer-based Biosensor for the detection of food toxicant, for their innovative concept of environmental recycling. Of the 55 teams, 48 presented their projects before the jury on July 23 through virtual mode. MAHE Vice-Chancellor M.D. Venkaesh urged the young minds to identify social needs and give them biotechnology solutions. He announced the awards in the presence of Director, Manipal School of Life Sciences, K. Satyamoorthy and CEO, M-GoK Bioincubator, Manesh Thomas. The hackathon was organised to promote student innovations, encouraging critical thinking essential to address the most critical needs of society and to promote novel technology development and start-up creation. It was open to students from any academic/research institutions doing undergraduate/post-graduate/doctoral studies. The hosts, Manipal – Government of Karnataka Bioincubator, along with MAHE, Manipal, will provide further assistance and hand-holding to top 10 innovative teams of this biohackathon, said a release.



Manipal Centre for Clinical Research, Manipal

Details of Research Grants: ONGOING TRIALS

Sl. No.	Project Name	Principal Investigator	Funding Agencies	Total Grants Received (INR)
1	Observational study on Type 2 Diabetes Mellitus for macro and microvascular complications in three years	Dr M M Prabhu	Sanofi	14,000/-per subject
2	Observational study on Type 2 Diabetes Mellitus for macro and microvascular complications in three years	Dr Raviraj	Sanofi	14,000/-per subject
3	A phase III randomized, open-label (Sponsor blind), active-controlled, parallel-group, multicentre, an event-driven study in non-dialysis subjects with anaemia associated with chronic kidney disease to evaluate the safety and efficacy of Daprodustat compared to darbepoetin alfa.	Dr Ravindra Prabhu	PPD	4,79,151/-per subject
4	A long-term extension study to evaluate the safety of Filgotinib in subjects with ulcerative colitis.	Dr Ganesh Pai, PI changed to Dr Shiran Shetty	KlinEra	6,25,289/-per subject
5	Combined Phase 2b/3, double-blind, randomized, placebo-controlled studies evaluating the efficacy and safety of Filgotinib in the induction and maintenance of remission in subjects with moderately to severely active ulcerative colitis.	Dr Ganesh Pai, PI changed to Dr Shiran Shetty	KlinEra	9,06,023/-per subject
6	A long-term extension study to evaluate the safety of Filgotinib in subjects with Crohn's disease.	Dr Ganesh Pai PI changed to Dr Shiran Shetty	KlinEra	6,39,269/-per subject



7	A combined phase II double-blind, randomized, placebo-controlled studies evaluating the efficacy and safety of Filgotinib in the induction and maintenance of remission in subjects with moderately to severely active Crohn's disease	Dr Ganesh Pai PI changed to Dr Shiran Shetty	KlinEra	8,92,530/-per subject
8	A randomized, double-blind, placebo-controlled Phase II study to evaluate the testicular safety of the study drug in adult males with moderately to severely active ulcerative colitis	Dr Ganesh Pai PI changed to Dr Shiran Shetty	KlinEra	2,91,000/-per subject
9	A randomized, double-blind, parallel-group, Phase III trial to compare the efficacy, safety, and immunogenicity of TX05 with Herceptin® in subjects with HER2 positive early breast cancer.	Dr Krishna Sharan	JSS	3,15,843/-per subject
10	A randomized, double-blind, multicentric, placebo-controlled, Phase III study assessing the efficacy and safety of Intra-Articular Administration of Stempeucel® (Adult Human Bone Marrow-Derived, Cultured, Pooled, Allogeneic Mesenchymal Stromal Cells) in patients with Osteoarthritis of the knee	Dr Vivek Pandey	Stempeutics	95,908/-per subject
11	A randomized, double-blind, parallel-group, Phase III Study to compare the efficacy, safety, and immunogenicity of proposed Rituximab Biosimilar (DRL_RI) with MabThera® in subjects with previously untreated, Stage II-IV, cluster of differentiation (CD)20-positive, low Tumour Burden Follicular Lymphoma	Dr Karthik Udupa	Dr Reddy's	3,00,000/- per subject
12	Scrub Typhus – Interest Trial Intravenous Treatment for Scrub Typhus	Dr Kavitha Saravu	DBT, Vellore	5,00,000 Budget
13	Study Title-: A multicentre, randomized, double-blind, placebo-controlled, multiple-dose study to evaluate the efficacy and safety of VIS649 in participants with Immunoglobulin A (IgA) Nephropathy	Dr Ravindra Prabhu	George Clinical	6,50,000/- per subject





14	Safety and efficacy of Transarterial Chemoembolization with Lipiodol® in the treatment of inoperable Hepatocellular Carcinoma (HCC) in Indian Patients, Phase IV Clinical Trial	Dr Ananth Pai	Siro Clinpharm	3,00,000/-per subject
15	A Phase III, double-blind, placebo-controlled, multicentre International Study of Neoadjuvant/Adjuvant Durvalumab for the treatment of Patients with Resectable Stages Two and Three Non-small Cell Lung Cancer (AEGEAN)”	Dr Karthik Udupa	AstraZeneca Pharma India	2,70,000/-per subject
16	C3591024: A Phase 2a, two-part, open-label, non-randomized, multicentre, single and multiple-dose Trial to Evaluate Pharmacokinetics, safety and tolerability of Ceftazidime and Avibactam in Neonates and Infants From birth to less than 3 months of age with suspected or confirmed infections due to Gram-Negative Pathogens requiring Intravenous Antibiotic Treatment	Dr Leslie Lewis	Pfizer	Cohort 1: 30,000/- per subject Cohort 2: 50,000/- per subject
17	A phase III double-blind, randomized, placebo-controlled study assessing the efficacy and safety of Capivasertib+Abiraterone Versus Placebo+Abiraterone as a treatment for patients with De Novo Metastatic Hormone-Sensitive prostate Cancer (mHSPC) characterized by PTEN deficiency (Captilello-281)	Dr Karthik Udupa	AstraZeneca Pharma India	2,80,000/-per subject
18	A randomized, double-blind, multicentre, placebo-controlled phase III study with an open-label period to evaluate the efficacy and safety of inebilizumab in adults with myasthenia gravis	Dr Aravind Prabhu	Medpace	6,49,000/-per subject
19	A single-blind, randomized, study comparing clinical equivalence of PD Synth and PDS, slowly absorbed polydioxanone sutures, for abdominal fascial closure following elective/emergency midline laparotomy	Dr Stanley Mathew	PD Synth	6,000/-per patient
20	A Phase III randomized, double-blind, placebo-controlled study to evaluate the efficacy and safety of Rilematovir in Infants and Children ( $\geq 28$ days to $\leq 5$ years of age) and subsequently in Neonates ( $< 28$ days of age), hospitalized with Acute Respiratory Tract Infection Due to Respiratory Syncytial Virus (RSV)	Dr Leslie Lewis	Jansen and Jansen	3,00,000/-per patient



21	CTQJ230A12301 A randomized double-blind, placebo-controlled, multicentre trial assessing the impact of lipoprotein (a) lowering with TQJ230 on major cardiovascular events in patients with established cardiovascular disease	Dr Tom Devasia	Novartis	2,75,000/-per patient
22	A Phase IIIB, multicentre, randomized, double-blind, placebo-controlled, clinical efficacy study of Baloxavir Marboxil for the reduction of Direct transmission of Influenza from Otherwise Healthy Patients to Household contacts	Dr Varma	Roche	38,000/-per patient
23	Title of Project: A randomized, double-blind, placebo-controlled, multicentre trial, assessing the impact of inclisiran on major adverse cardiovascular events in participants with established cardiovascular disease (VICTORION-2 PREVENT)	Dr Tom Devasia	Novartis	1,78,000/-per subject
24	DESTINY-Breast11 is being carried out to see whether T-DXd is effective in treating patients with early, HER2+ breast cancer	Dr Ananth Pai	AstraZeneca	8,67,570/- per subject
25	Effects of ziltivekimab versus placebo on cardiovascular outcomes in participants with established atherosclerotic cardiovascular disease, chronic kidney disease and systemic inflammation	Dr Tom Devasia	Novo Nordisk	2,75,605/- per subject
26	A Phase III, randomized, controlled, multicentre, 3-arm study of neoadjuvant osimertinib as monotherapy or in combination with Chemotherapy versus Standard of Care Chemotherapy Alone for the treatment of patients with Epidermal Growth Factor Receptor Mutation Positive, Resectable Non-small Cell Lung Cancer (NeoADAURA)	Dr Karthik Udupa	Astra Zeneca	3,00,000/- per subject



Manipal Centre for Clinical Research, Mangalore

**Details of Research Grants: (Completed or ongoing in 2021)**

Sl No	Project Name	Principal Investigator	Funding Agencies	Total Grants Received (INR)
1.	Improve SCA Bridge Study	Dr Narasimha Pai	Medtronics India Pvt Ltd	20,330/- Subject
2.	<b>Protocol No. TMC278HCX3001</b> Open-label study with Rilpivirine in Treatment-naïve Indian Subjects with HIV-1 infection to determine safety and efficacy of RISE	Dr John T Ramapuram	Johnson & Johnson	1,60,880/- Subject
3.	<b>Protocol No. GA29102</b> Phase-III, randomized, double-blind, placebo-controlled, multicentre study to evaluate the efficacy (maintenance of remission) and safety of etrolizumab compared with placebo in patients with moderate to severe active ulcerative colitis who are naive to TNF Inhibitors	Dr B V Tantry	IQVIA RDS (India) Pvt Ltd	3,27,527/- Subject
4.	<b>Protocol No. 14V-MC-JADY</b> A Phase-III multicentre study to evaluate the long-term safety and efficacy of baricitinib in patients with Rheumatoid Arthritis	Dr Surendra Kamath	IQVIA RDS (India) Pvt Ltd	2,06,670/- Subject
5.	<b>Protocol No. SRPL/OA/16-17/001</b> A randomized, double-blind, multicentre, placebo-controlled, Phase-III study assessing the efficacy and safety of Intra-Articular Administration Of Stempeucel® (Adult Human Bone Marrow derived, cultured, pooled, allogeneic mesenchymal stromal cells) in patients with osteoarthritis of the knee	Dr Surendra Kamath	ECRON ACUNOVA LTD	1,03,900/- Subject
6.	<b>Protocol No. AGB002</b> A randomized, double-blind, multicentre, multi-national trial to evaluate the efficacy, safety, and immunogenicity of SAIT 101 versus Rituximab as a first-line immunotherapy treatment in patients with Low Tumor Burden Follicular Lymphoma	Dr Sourjya Banerjee	IQVIA RDS (India) Pvt Ltd	2,15,092/- Subject
7.	<b>Protocol No. MYL-DOL-4001</b> An open-label, multicentre, prospective, Phase-IV interventional study to evaluate the safety, tolerability, and efficacy of			



	Dolutegravir (50 mg once daily) in treatment naïve adult Indian subjects infected with HIV-1, eligible to receive Dolutegravir with Tenofovir and Lamivudine	Dr John T Ramapuram	JSS Medical Research India Pvt Ltd	50,050/- Subject
8.	<b>Protocol No. GS-US-417-0304:</b> A multicentre, open-label, long-term extension study to assess the safety and efficacy of Filgotinib in subjects with Rheumatoid Arthritis	Dr Surendra Kamath	KlinEra Global Services	12,28,611/- Subject
9.	<b>Protocol No. GA28951</b> An open-label extension and safety monitoring study of moderate to severe ulcerative colitis patients previously enrolled in Etrolizumab Phase-II/III studies	Dr B V Tantry	IQVIA RDS (India) Pvt Ltd	7,01,627/- Subject
10.	<b>Protocol No. GS-US-418-3898</b> Combined Phase-IIb/III, double-blind, randomized, placebo-controlled studies evaluating the efficacy and safety of Filgotinib in the induction and maintenance of remission in subjects with moderately to severely active ulcerative colitis	Dr B V Tantry	KlinEra Global Services	10,06,725/- Subject
11.	<b>Protocol No. IND-HEALTHIUM-TRUSILK-2019-1</b> A single-blind, randomized study comparing clinical equivalence of Trusilk® (Healthium) and Mersilk® (Johnson & Johnson) silk suture, for primary closure of mucosa in subjects undergoing planned surgical removal of mesioangular impacted mandibular third molar	Dr Dharnappa Poojary	Healthium Medtech Pvt Ltd	3,340/- Subject
12.	<b>Protocol No. ALK10/ENZ110-ROMI</b> A prospective, multicentre, randomized, double-blind study to compare the efficacy and safety of ENZ110 (similar biologic of Romiplostim) Vs Innovator Romiplostim in patients with chronic immune thrombocytopenia (ITP)	Dr Prashantha Bhat	Alkem Laboratories	78,000/- Subject
13.	<b>Protocol No. DESI.18.001</b> A Phase-III, multicentre, multi-country, open-label, randomized, active-controlled clinical trial to evaluate the efficacy and safety of Desidustat versus Darbepoetin for the treatment of anaemia in patients with Chronic Kidney Disease (CKD) who are not on dialysis	Dr Mayoora Prabhu	Zydus Cadila	68,100/- Subject
14.	<b>Protocol No. BGBC020</b>			





	A multicentre, Phase-II, randomized study to assess the efficacy and safety of Bemcentinib for the treatment of COVID-19 in hospitalized patients	Dr John T Ramapuram	IQVIA RDS (India) Pvt Ltd	3,80,728/- Subject
15.	<b>Protocol No. GS-US-419-3896</b> A long-term extension study to evaluate the safety of Filgotinib in subjects with Crohn's Disease	Dr B V Tantry	KlinEra Global Services	22,11,442/- Subject
16.	<b>Protocol No. GS-US-418-3899</b> A long-term extension study to evaluate the safety of Filgotinib in subjects with Ulcerative Colitis	Dr B V Tantry	KlinEra Global Services	8,64,975/- Subject
17.	<b>Protocol No. CT/TRYP+CHYM+DICL/STI/15</b> A multicentric, randomized, prospective, open-label, comparative, parallel-group Clinical Trial to evaluate the efficacy and safety of a fixed-dose combination of Trypsin - Chymotrypsin Enzyme and Diclofenac oral Tablet in comparison with Diclofenac oral Tablet in the management of acute inflammation due to soft tissue injuries	Dr Surendra Kamath	Torrent Pharmaceuticals Ltd	17,420/- Subject
18.	<b>Protocol No. GS-US-418-4279</b> A randomized, double-blind, placebo-controlled Phase-II study to evaluate the testicular safety of Filgotinib in adult males with moderately to severely active inflammatory bowel disease	Dr B V Tantry	KlinEra Global Services	11,19,921/- Subject
19.	<b>Protocol No. GRC 27864-201</b> A Phase-II dose-range finding 12-week, double-blind, randomized, parallel-group study to evaluate the safety and efficacy of GRC 27864 in patients with moderate osteoarthritis pain	Dr Surendra Kamath	Glenmark Pharmaceuticals	30,000/- Subject
20.	<b>Protocol No. SB3-G31-BC-E</b> A long-term follow-up study for cardiac safety in patients with human epidermal growth factor receptor (HER2) positive, early, or locally advanced breast cancer who have completed the SB3-G31-BC	Dr Sourjya Banerjee	IQVIA RDS (India) Pvt Ltd	18,443/- Subject



21.	<b>Protocol No. 1199.272</b> Active surveillance to monitor the real-world safety in Indian patients prescribed Nintedanib for the treatment of locally advanced, metastatic, or recurrent Non-Small Cell Lung Cancer (NSCLC) of adenocarcinoma tumour histology after first-line chemotherapy	Dr Sourjya Banerjee	Boehringer Ingelheim India Pvt Ltd	10,887/- Subject
22.	<b>Protocol Number ALK20-SPI2</b> A randomized, double-blind, multicentric, parallel-group, Phase III clinical trial to evaluate the efficacy and safety of 5% Spironolactone Topical Cream versus Placebo in Patients with Acne Vulgaris	Dr Pramod Kumar	Alkem Laboratories	18,500/- Subject
23.	<b>Protocol No. RSV MAT-009</b> A Phase III, randomized, double-blind, placebo-controlled multi-country study to demonstrate the efficacy of a single dose of unadjuvanted RSV Maternal vaccine, administered IM to pregnant women 18 to 49 years of age, for prevention of RSV associated LRTI in their infants up to 6 months of age	Dr Priya Ballal	GSK	1,72,800/- Subject
24.	<b>Protocol No. 17775A</b> Open-label, flexible-dose study of vortioxetine in patients with major depressive disorder in India	Dr Keshava Pai	IQVIA RDS (India) Pvt Ltd	49,977/- Subject
25.	<b>Protocol No. NN9500-4656</b> Efficacy and safety investigation of NNC0194-0499 co-administered with semaglutide in subjects with non-alcoholic steatohepatitis: a dose-ranging, placebo-controlled trial.	Dr B V Tantry	Novo Nordisk	6,75,068/- Subject

KMC Manipal

Sl. No.	Project Name	Principal Investigator	Funding Agencies	Total Grants Received (INR)	Date(s)
Anatomy					
1	Transcriptional and behavioural mechanisms underlying social isolation stress in Drosophila	Dr Pavan Kumar Agrawal	DBT, New Delhi	18,51,760.00	29 September 2021 to 28 September 2024
2	Deciphering the biological role of the three-	Dr. Somasish Ghosh Dastidar	DBT, New Delhi	24,59,663.00	1 October 2019 to 30



	mammalian eukaryotic Initiation Factor 4 Binding Proteins (4E-BPs) against a null background of their paralogues with the goal to identify their activators and repressors as potential therapeutic targets in neuroinflammatory disorders such as Parkinson's and astrocytoma's, which is a cancer in the CNS				September 2024
3	Exosomes from human pluripotent stem cell derived GABAergic interneuron progenitors:Next generation vehicles for treating GABA	Dr Dinesh Upadhya	SERB, New Delhi	7,00,000.00	15 December 2018 to 14 December 2021
4	Inspire Fellowship under INSPIRE Program - for Student pursuing full-time doctoral (Ph'D) Program at MAHE	Ms Namita N Kashyap, JRF & Guide Dr Dinesh Upadhya	DST, New Delhi	4,21,760.00	08 September 2021 to 07 September 2026
5	Evaluating urinary extra cellular vesicles in Parkinson's disease patients with severe non-motor symptoms	Dr Dinesh Upadhya	S N Nandi Foundation Trust, Kolkata	2,00,000.00	08 October 2021 to 09 October 2023
<b>Cardiology</b>					
2	Protocol No. CTQJ230A12301 title: A randomized dubble-blind, placebo-controlled, multicenter trial assessing the impact of lipoprotein (a) lowering with TQJ230 on major cardiovascular events in patients with established cardiovascular disease	Dr Tom Devasia	Novartis Healthcare Pvt Ltd	59,000.00	15 September 2021 to 31 December 2022
3	Protocol No. CTQJ230A12301 title: A randomized dubble-blind, placebo-controlled, multicenter trial assessing	Dr Tom Devasia	Novartis Healthcare Pvt Ltd	59,000.00	15 September 2021 to 31 December 2022



	the impact of lipoprotein (a) lowering with TQJ230 on major cardiovascular events in patients with established cardiovascular disease				
<b>Clinical Embryology</b>					
1	Functional and genetic integrity of spermatozoa extracted using microfluidic separation (MIGLIS)	Dr Satish Kumar Adiga	SAR Health Line Pvt ltd	4,15,360/-	24 March 2020 to 23 March 2022
2	INSPIRE Fellowship under INSPIRE Program to Daphne Norma Crasta, JRF, Clinical Embryology	Daphne Norma Crasta, Supervisor - Dr Guruprasad Kalthur	DST, New Delhi	5,25,531/-	18 September 2020 to 17 September 2022
3	Fertility preservation in cancer affected prepubertal girls: experimental approaches to address the cryo-susceptibility of immature oocytes in relation to the ovarian age	Dr Satish Kumar Adiga	ICMR, New Delhi	15,47,208/-	1 January 2021 to 31 December 2023
4	Understanding the impact of sperm genetic abnormalities on ART derived human embryos: metabolomic and morphokinetic approach	Dr Satish Kumar Adiga	ICMR, New Delhi	18,76,946.00	28 Mar 2018 to 27 Mar 2021
5	Development of procedures for restoration of fertility in cancer affected male individuals, post chemotherapy	Dr Satish Kumar Adiga	SERB, New Delhi	10,82,665.00	28 January 2016 to 30 September 2019
6	Designing liposome based freezing medium for testicular tissue cryopreservation to aid in male fertility preservation	Dr Guruprasad Kalthur	ICMR, New Delhi	6,48,460.00	15 Feb 2018 to 14 Feb 2021
7	Structure based design and evaluation of inhibitors against phosphodiesterases for enhancing sperm motility and early embryo development and to reduce gamete and embryo toxicity	Dr Guruprasad Kalthur	SERB, New Delhi	10,73,400.00	22 Mar 2021 to 21 Mar 2024



8	Understanding the clomiphene citrate-induced changes in secretory epithelial cells of human fallopian tube	Dr Guruprasad Kalthur	ICMR, New Delhi	9,23,063.00	25 October 2021 to 24 October 2024
9	Experimental approach to assess the protective effects of Gonadotropin releasing hormone agonist (GnRHa) in preventing the chemotherapy induced ovarian damage and transgenerational effects	Dr Shubhashree Uppangala	ICMR, New Delhi	6,17,100.00	15 December 2021 to 14 December 2024

**Community Medicine**

1	SII-qHPV/IN-02	Dr Veena G Kamath	DiagnoSearch Life Sciences Pvt Ltd	40,60,248/-	22 August 2018 to 21 August 2023
2	Protocol No: Rab-04 A Phase IV, Randomized, Controlled study of the safety and immunogenicity of Rabisheild + Rabivax-S Postexposure Prophylaxis regimen in patients with potential Rabies Exposure	Dr Veena G Kamath	IQVIA RDS (India) Pvt Ltd	4,20,451.70	9 August 2019 to 8 August 2022
3	Socio-Cultural and environmental drivers of antibiotic resistance in the community, People, Physicians and pharmacists' perspectives on a mixed-methods approach	Dr Chythra R Rao	ICMR, New Delhi	5,65,316/-	15 October 2019 to 14 October 2022
4	Protocol No PCV-10-004 A Phase 3, Randomized, Double-Blind Study to Evaluate the Immunogenicity, Safety and Tolerability of Serum Institute of India's 10-valent Pneumococcal Conjugate Vaccine (PNEUMOSIL) in Healthy Indian Infants	Dr Veena G Kamath	DiagnoSearchLife Sciences Pvt Ltd	24,316/-	16 October 2019 to 15 October 2024
5	Protocol No. SII-wHEXA/IN-02 - An Open-Label, Randomized, Active-controlled, multi-centric phase II/III study	Dr Veena G Kamath	DiagnoSearch Life Sciences Pvt Ltd	27,74,585.48/-	12 November 2019 to 11 July 2022





	in Indian Toddlers and infants to Assess the Immunogenicity and Safety of SIIPL HEXASIIL tm (DTwP-HepB-IPV-Hib) Vaccine in Comparison to SIIPL Pentavac (DTwP-HepB-HiB) + Poliovac (IPV) Vaccines in Administered as Separate injections				
6	Protocol No PCV-10-004 A Phase 3, Randomized, Dubble-Blind Study to Evaluate the Immunogenicity, Safety and Tolerability of Serum Institute of India's 10-valent Pneumococcal Conjugate Vaccine (PNEUMOSIL) in Healthy Indian Infants	Dr Veena G Kamath	DiagnoSearch Life Sciences Pvt Ltd	4,23,832.50/-	1 January 2020 to 16 October 2024
7	Protocol No PCV-10-004 A Phase 3, Randomized, Dubble-Blind Study to Evaluate the Immunogenicity, Safety and Tolerability of Serum Institute of India's 10-valent Pneumococcal Conjugate Vaccine (PNEUMOSIL) in Healthy Indian Infants	Dr Veena G Kamath	DiagnoSearch Life Sciences Pvt Ltd	4,05,222.50/-	1 January 2020 to 15 October 2024
8	Rotasiil® Vaccine Intussusception Surveillance in Kerala, Karnataka, Maharashtra and Gujarat, India	Dr Veena G Kamath	C M C Vellore Association, TN	9,17,686/-	1 February 2020 to 31 January 2022
9	Exploratory Study on implementing tobacco vendor licensing in Karnataka & Implementation of Tobacco Free School Guidelines in Urban area of Karnataka	Dr Muralidhar M K	JD (Medical) & Member Secretary, Directorate of Health & Family Welfare, Karnataka	1,69,883.00	02 January 2021 to 01 April 2021
10	Effectiveness of a healthcare governance model on the utilization of health care services among	Dr Ranjitha S Shetty	ICMR, New Delhi	5,57,510.00	01 March 2021 to 28 February 2023



	PVTG in Udupi District: A cluster randomized controlled trial				
11	Protocol Number – BBIL/CHIKV/II-III/2019 - A Seamless Phase II/III observer-blind, multi-centre, randomized clinical trial to evaluate immunogenicity and safety of BBV87 an inactivated chikungunya virus vaccine in healthy subjects 12-65 years of age	Dr Veena G Kamath	DiagnoSearch Life Sciences Pvt Ltd	4,36,418.00	23 March 2021 to 22 August 2024
<b>Dermatology</b>					
1	Human Papilloma Virus (HPV) genotyping in women with Condyloma acuminata. A cross-sectional, hospital-based study	Dr Smitha Prabhu S	IADVL, Academy Bangalore	78,000/-	1 January 2021 to 31 March 2022
2	Protocol No. ALK20-SP12 - A Randomized, Double Blind, Multicentric, Parallel group, Phase III Clinical Trial to evaluate the efficacy & Safety of 5% Spironolactone Topical Cream versus Placebo in Patients with Acne Vulgaris	Dr Sathish Pai	Alkem Laboratories Ltd	59,000.00	05 March 2021 to 31 December 2022
3	Comparison of conventional indirect immunofluorescence with biochip mosaic slide in the diagnosis of autoimmune bullous disorders-A cross-sectional study	Dr Raghavendra Rao	IADVL, Academy Bangalore	1,90,750.00	01 October 2019 to 31 March 2021
<b>Gastroenterology</b>					
1	Protocol No GS-US-419-3896 title A Long-term extension study to Evaluate the Safety of Filgotinib in subject with Crohn's Disease	Dr Shiran Shetty	KlinEra Corporation India, Mumbai	60,000/-	4 January 2018 to 13 January 2022
2	Protocol No GS-US-418-3899 A Long-Term Extension Study to evaluate the safety of	Dr Ganesh Pai	KlinEra Corporation India, Mumbai	3,37,455	4 January 2018 to 31 December 2022



	Filgotinib in Subjects with Ulcerative Colitis				
3	Protocol No. GS-US-418-4279 Study entitled A Randomized, double-blind, Placebo-controlled Phase 2 study to Evaluate the Testicular safety of Filgotinib in Adult Males with Moderately to Severely Active Inflammatory Bowel Disease	Dr Shiran Shetty	Klinera Corporation India	1,35,962/-	26 November 2018 to 25 November 2023
4	Protocol No.: GS-US-418-3898 : "Combined Phase 3, Double-blind, Randomized, Placebo-Controlled Studies Evaluating the Efficacy and Safety of Filgotinib in the Induction and Maintenance of Remission in Subjects with Moderately to Severely Active Ulcerative Colitis".	Dr Ganesh Pai	KlinEra Corporation India, Mumbai	60,000.00	04 January 2018 to 03 January 2020
5	GS-US-419-3895	Dr Ganesh Pai	KlinEra Corporation India, Mumbai	60,000.00	04 January 2018 to 03 January 2020
6	Pfizer Protocol No.B7541007 Study entitled "A Phase 2B, Multicentre, Randomized, Double-blind, Placebo-controlled dose ranging study to evaluate the efficacy, Safety, and Pharmacokinetics of PF-06480605in adult participants with moderate to severe ulcerative colitis	Dr Shiran Shetty	ICON Clinical Research India Pvt Ltd	1,18,000.00	26 August 2021 to 31 December 2022

**Immuno-haematology and Blood Transfusion**

1	Study of the clinical significance of the red cell antibodies using Monocyte Monolayer Assay	Dr Shamee Shastry C	Terump Penpol Pvt Ltd	1,00,000.00	05 June 2021 to 04 June 2023
2	Understanding the pathophysiology of Snakebite Associated Thrombotic Microangiopathy	Dr Ganesh Mohan	ICMR, New Delhi	8,04,966.00	27 July 2021 to 26 July 2022



<b>Infectious Diseases</b>					
1	Intravenous Treatment for scrub Typhus (INTREST Trial)	Dr Kavitha Saravu	C M C Vellore Association, TN	10,00,000/-	29 December 2017 to 20 June 2022
2	Protocol 63623872FLZ3002: A phase 3 randomized, double-blind, placebo-controlled, multi-centre study to evaluate the efficacy and safety of Pimodivir in combination with the standard-of-care treatment in adolescent, adult, and elderly non-hospitalized subjects with Influenza an infection who are at Risk of Developing Complications	Dr Muralidhar Varma	IQVIA RDS(India)Pvt Ltd	5,02,309.48/-	3 April 2019 to 31 December 2022
3	Scrub typhus: Clinico-epidemiological analysis, humoral immune response and Molecular Characterization of Orientia tsutsugamushi	Dr Kavitha saravu	SERB, New Delhi	15,34,360.00	18 February 2021 to 17 February 2024
<b>Medical Genetics</b>					
1	Liquid Biopsy Strategies for early detection and treatment monitoring of Human Papilloma Virus (HPV) associated cancers in India	Dr Rama Rao Damerla	Regional Centre for Biotechnology, Faridabad	22,22,000/-	3 June 2019 to 2 June 2024
2	Clinical and Molecular Characterization of Leukodystrophies in India Children	Dr Anju Shukla	ICMR, New Delhi	18,39,277.00	15 September 2016 to 14 September 2019
3	Does Postmortem Magnetic Resonance Imaging of Fetal Brain Help in Autopsy	Dr Girisha K M	ICMR, New Delhi	4,24,271.00	01 August 2017 to 31 July 2020
4	Investigating the crosstalk between primary cilia and autophagy in chondrogenesis and its modulation by Fibroblast growth factor (FGF)	Dr Priyanka Upadhyai	ICMR, New Delhi	12,37,813.00	01 February 2021 to 31 January 2024



	signaling in FGFR3 related skeletal dysplasias in vitro				
5	Investigating the role of IFT52 and EXOC6B in human biology and disease using cell-culture and Drosophila systems	Dr Priyanka Upadhyai	SERB, New Delhi	10,879.00	30 March 2017 to 29 March 2020
6	Genetic Evaluation of Inborn Errors of Immunity in Indian Population	Dr Sri Lakshmi Bhavani Gandham	ICMR, New Delhi	16,97,473.00	30 July 2021 to 29 July 2024
7	Understanding autoinflammatory disorders through clinical, genomic and functional approaches	Dr Dhanya Lakshmi Narayanan	DBT/Welcome Trust India Alliance	20,75,224.00	01 September 2021 to 31 August 2026
8	Deep Phenotyping, Comprehensive Genomic Studies and Investigations into Pathomechanisms of Congenital Heart Defects	Dr Shalini S Nayak	DBT, New Delhi	19,01,260.00	24 August 2021 to 23 August 2024
9	Center for Rare Disease Diagnosis, Research & Training	Dr Girisha K M	DBT Wellcome Trust	1,19,00,800.00	01 October 2021 to 30 September 2026
<b>Medical Oncology</b>					
1	Protocol No LUF-44-005 entitled Safety and Efficacy of Transarterial Chemoembolization with Lipiodol® in the treatment of inoperable Hepatocellular Carcinoma (HCC) in Indian Patients - Phase IV Clinical Trial	Dr Ananth Pai	Siro Clinpharm Pvt Ltd	3,07,871.44/-	22 October 2020 to 31 December 2022
2	Protocol No. D361BC00001 entitled A Phase III Double-blind, Randomised, Placebo-Controlled Study Assessing the Efficacy and Safety of Capivasertib + Abiraterone Versus Placebo + Abiraterone as Treatment for Patients with De Novo Metastatic Hormone-Sensitive Prostate Cancer (mHSPC) Characterised by PTEN deficiency (CAPItello-281)	Dr Karthik Udupa	Astrazeneca Pharma India Limited	76,700/-	4 November 2020 to 17 July 2026





3	Protocol No. D9106C00001 A phase 3, double-blind, placebo-controlled, multicentre international study of Neoadjuvant/Adjuvant Durvalumab for the Treatment of Patients with Resectable Stages II and III Non-Small Cell Lung Cancer (AEGEAN)	Dr Karthik Udupa	Astrazeneca Pharma India Limited	1,29,922.72/-	4 December 2020 to 31 October 2025
4	To identified genetic variant in hereditary breast and ovarian cancer and association of non-confounding genetic factors and their frequency in hereditary breast and ovarian cancer	Dr Karthik S Udupa	Natco Pharma Limited, Hyderabad	3,00,000.00	20 August 2020 to 21 August 2021
5	Study Code. D516AC00001 Title "A Phase III, Randomised, Controlled, Multi-centre, 3-Arm Study of Neoadjuvant Osimertinib as Monotherapy or in Combination with Chemotherapy versus Standard of Care Chemotherapy Alone for the Treatment of Patients with Epidermal Growth Factor Receptor Mutation Positive, Resectable Non-small Cell Lung Cancer (NeoADAURA)	Dr Karthik S Udupa	Astrazeneca Pharma India Limited	1,18,000.00	30 June 2021 to 31 October 2029
<b>Medicine</b>					
1	DIREGL08112-LANDMARC (356-77)	Dr Sudha Vidyasagar	Sanofi India Limited	14,160/-	1 March 2017 to 1 January 2023
2	Prevalence of cognitive dysfunction in type 2 diabetes mellitus patients in the Indian population and understanding their possible link through targeted lipidomics approach	Dr Mukhyaprana Prabhu	RSSDI, New Delhi	1,33,333/-	20 July 2019 to 19 July 2022



3	SLE-BRAVE-11 (14V-MC-JAIA)	Dr Mukhyaparana Prabhu	PPD Pharmaceuticals Development India Pvt Ltd	13,48,255.14/-	1 August 2019 to 31 July 2024
4	Tips-3	Dr Sudha Vidyasagar	St. John's Research Institute, Bangalore	1,10,006.00	22 October 2014 to 21 October 2020
5	A randomized controlled trial of hydroxychloroquine (HCQ) compared to standard care for the prevention of COVID-19 infections among healthcare workers (HCW) exposed to SARS-CoV2” HOPE – HydrOxychloroquine Prophylaxis Evaluation	Dr Cynthia Amrutha Sukumar	George Institute for Global Health, New Delhi	1,70,271.00	01 September 2020 to 28 February 2021
6	DIREGL08112-LANDMARC(356-74)	Dr Raviraj Acharya	Sanofi India Limited	96,760.00	01 March 2017 to 31 July 2021
7	Protocol No 14V-MC-JAIM title" A Phase 3, double-blind, Multicenter study to evaluate the long term safety and efficacy of Baricitinib in patients with Systemic lupus Erythematosus (SLE)	Dr Mukhyaprana Prabhu	PPD Pharmaceutical Development India Pvt Ltd	59,000.00	08 March 2021 to 31 December 2022
8	Clinical Study to validate the innovative technology of non-contact health screening kiosk for COVID-19 patients visiting Kasturba Hospital	Dr Muralidhar Varma	Philips India Ltd, Bangalore	5,30,849.00	16 November 2020 to 31 December 2022
9	Protocol No 082-20 title "A prospective, Open-Label, Multi-centered, Non-Randomized, Non-Comparative Active Post-Marketing Surveillanceto test the safety and efficacy of Diperoxochloric Acid (DPOCL) topical solution in patients with diabetic neuropathic ulcers of skin and subcutaneous tissue	Dr Shivashankar K N	Centaur Pharmaceuticals Pvt Ltd	1,29,800.00	25 January 2022 to 31 December 2022

**Microbiology**



1	Regional Centre for Antimicrobial Resistance Surveillance Network	Dr Chiranjay Mukhopadhyay	ICMR, New Delhi	5,94,790/-	1 July 2018 to 30 June 2023
2	Capacity building and strengthening of Hospital Infection Control to Detect and Prevent Antimicrobial Resistance in India	Dr Chiranjay Mukhopadhyay	JPN Apex Trauma Centre, All India Institute of Medical Sciences, New Delhi	11,00,000.00	30 September 2017 to 29 September 2021
3	Evaluation Program of Vitek2 Critical Care Card	Dr Vandana K E	BioMerieux India Pvt Ltd	41,000.00	13 September 2021 to 12 November 2021

**Nephrology**

1	Protocol No. PHI200807 A phase 3 randomized open-label (Sponsor-blind) active-controlled parallel-group multicentre, event-driven study in dialysis subjects with anaemia associated with chronic kidney disease to evaluate the safety and efficacy of daprodustat compared to recombinant human erythropoietin following a switch from erythropoietin-stimulating agents	Dr Ravindra Prabhu	PPD Pharmaceutical Development India Pvt Ltd	64,900/-	24 November 2017 to 23 May 2022
2	A phase 3 randomized, open-label active-controlled parallel-group, a multicenter event-driven study in non-dialysis subjects with anaemia associated with chronic kidney disease to evaluate the safety and efficacy of GSK1278863 compared to darbepoetin alfa Protocol No. PHI200808	Dr Ravindra Prabhu	PPD Pharmaceutical Development India Pvt Ltd	64,900/-	24 November 2017 to 23 May 2022
3	Protocol No. GS-US-223-1017 "A Phase 3, Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Multicenter Study Evaluating the Efficacy and Safety of	Dr Ravindra Prabhu	Klinera Global Services, Mumbai	59,000.00	05 February 2021 to 04 February 2026



	Selonsertib in Subjects with Moderate to Advanced Diabetic Kidney Disease"				
4	Prediction method to assess Diabetic Nephropathy (DN) Risk & its Complication in relation to Diabetic Retinopathy(DR)	Dr Shankar N Prasad	Carl Zeiss India, Pvt Ltd	34,220.00	23 April 2021 to 30 September 2021
5	Prediction method to assess Diabetic Nephropathy (DN) Risk & its Complication in relation to Diabetic Retinopathy(DR)Changes using machine learning ML method in diabetic population	Dr Shankar Prasad N	Carl Zeiss India, Pvt Ltd	4,48,400.00	23 April 2021 to 30 September 2021
6	Comparison of Pharmacokinetics principles of anti-tuberular drugs in Tuberculosis (TB) Patients with and without Chronic kidney disease (CKD)	Dr Ravindra Prabhu	ICMR, New Delhi	10,03,941.00	01 October 2021 to 30 September 2024
7	Role of remote ischaemic conditioning in prevention of contrast induced nephropathy following percutaneous coronary intervention: a randomised controlled trial	Dr Indu Ramachandra Rao	ICMR, New Delhi	11,92,122.00	03 January 2022 to 02 January 2025
8	Effect of Integrated Focused Renal Supportive Care on Symptom Burden, Quality of life and Advance Care Planning in End stage Renal disease Patients: A Randomized Controlled Trial	Dr Shankar Prasad Nagaraju	ICMR, New Delhi	4,68,100.00	15 October 2021 to 14 October 2024
<b>Neurology</b>					
1	Establishment of the Indian Stroke Clinical Trial Network (INSTRuCT)	Dr Aparna R Pai	ICMR, New Delhi	3,40,454/-	30 March 2017 to 29 March 2022
2	Secondary Prevention by Structured Semi-Interactive Stroke Prevention Package in India (SPRINT)_INDIA	Dr Aparna R Pai	ICMR, New Delhi	63,322.00	30 Mar 2017 to 29 Mar 2021



3	Protocol No. VIB0551.P3.S1 : A Randomized, Double-blind, Multicenter, Placebo-Controlled Phase 3 Study with Open-label Period to Evaluate the Efficacy and Safety of Inebilizumab in Adults with Myasthenia Gravis	Dr Arvind N Prabhu	Medpace Clinical Research India Pvt Ltd	59,000.00	06 July 2021 31 to December 2022
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**Obstetrics and Gynaecology**

1	Collaboration to undertake two research projects in order to achieve its objective of developing assistive AI Systems for fetal Ultrasonography	Dr Akhila Vasudeva	Chennai Origin Health Software Technologies Pvt Ltd	11,80,000/-	28 August 2020 to 27 August 2022
2	Clinical Phenotypes and genetic regulation of endometriosis in Indian women	Dr Muralidhar V Pai	ICMR-National Institute for Research Reproductive Health, Mumbai	38,000/-	29 October 2020 to 28 October 2024
3	Research plan for data Acquisition study for developin AI Algorithms to predict preterm Labor & Averse Perinatal outcome	Dr Akhila Vasudeva	Philips India Ltd, Bangalore	21,26,894.00	01 June 2021 to 31 July 2023

**Orthopaedics**

1	SRPL-OA-16-17/001	Dr Vivek Pandey	Ecron Acunova Limited	1,96,824.00	13 November 2018 to 12 November 2021
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**Paediatric Surgery**

1	Cluster randomized Trial od sterile glove and instrument change at the time of wound closure to reduce surgical site infection (CHEETAH) in India	Dr Vijay Kumar	Christian Medical College, Ludhiana	4,20,000.00	01 August 2020 to 30 June 2022
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**Paediatrics**

1	Protocol : C3591024 title: A Phase 2A, 2-Part, Open-Lable, Non-Randomized, Multicenter, Single and Multiple Dose Trial to Evaluate Pharmacokinetics, safety and Tolerability of	Dr Leslie Lewis	Inventiv International Pharma Services Pvt Ltd	83,557.84	28 January 2021 to 31 December 2022
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	Ceftazidime and avibactam in Neonates and infections due to Gram-Negative Pathogens Requiring Intravenous Antibiotic Treatment				
2	Protocol No 53718678RSV3001 "A Phase 3, Randomized, Double-blind, Placebo-controlled study to evaluate the efficacy and safety of Rilematovir in infants and Children and Subsequently in Neonates Hospitalized with Acute Respiratory"	Dr Leslie Edward S Lewis	Johnson & Johnson Pvt Ltd	1,41,600.00	13 January 2021 to 31 December 2022
<b>Pathology</b>					
1	Biomarker Expression Analysis in Breast Cancer	Dr Kanthilatha Pai	Applied Materials India Pvt Ltd	14,11,280.00	29 July 2019 to 28 July 2022
<b>Palliative Medicine and Supportive Care</b>					
1	Developing a model for real time analgesia for drug delivery by assessing nociceptive chemical mediators	Dr Naveen Salins	ICMR, New Delhi	8,46,660.00	15 February 2021 to 14 February 2024
<b>Pharmacology</b>					
1	Role of sirtuins in gender based neuro-developmental toxicity in fluorosis: a preclinical study	Dr Smita Shenoy	ICMR, New Delhi	9,80,313.00	17 January 2022 to 16 January 2023
<b>Radiotherapy</b>					
1	Protocol No TX05-03 title" A randomized, double-blind, parallel group, Phase III trial to compare the efficacy, safety, and immunogenicity of TX05 with Herceptin in subjects with HER2 positive early breast cancer	Dr Krishna Sharan	JSS Medical research India Pvt Ltd	7,75,079.70	01 June 2019 to 31 March 2021

Awards/Recognitions:  
Faculty Members

Sl. No.	Name	Details	Date
<b>Medical Genetics</b>			
1	Department	Department received grants to establish a Centre for Rare Disease Diagnosis, Research and Training from	16 June 2021



		DBT Welcome Trust India Alliance worth 13 crores INR.	
<b>Paediatrics</b>			
1	Department of Paediatrics	Received the Fist GRANT	5 March 2021
<b>Pharmacology</b>			
1	Dr Shivaprakash G	INSA program award - INSA Fellowship - 2021 held from 23 October 2021 to 23 January 2022	20 October 2021
<b>Radiotherapy</b>			
1	Dr Krishna Sharan	Received a grant of 20,000/- INR by Shastri Indo- Canadian Institute	30 November 2021

KMC Mangalore

Sl. No.	Project Name	Principal Investigator	Funding Agencies	Total Grants Received (INR)	Date(s)
<b>Audiology and Speech Language Pathology</b>					
1	Technique to optimize perception of spatial cues and spatial release from masking	Dr Arivudai Nambi, Dr Jayashree S Bhat	Indian Council of Medical Research	24,08,436.00	24 February 2021
2	Sangyanonnati – A multicentre customized cognitive communicative wellbeing program for middle-aged adultsc	Dr Gagan Bajaj, Dr Jayashree S Bhat and Dr Vinitha	Department of Science and Technology (DST)	16,82,129.00	18 March 2021
3	Pranayama and Voice Related Quality of Life among Teachers	Dr Jayashree Bhat	Government of India, Ministry of Science and Technology, Department of Science and Technology	42,03,200.00	31 March 2021
4	Tele-based speech therapy for children with language disabilities during the COVID-19 pandemic	Sudhin Karuppall	Science and Engineering Research Board (SERB) New Delhi	2,20,000.00	23 August 2021
5	The Contribution of Envelop Cues for the Perception	Dr Vibha Kanagokar	ICMR ,New Delhi	17,01,952.00	9 September 2021



	of Inter-aural Time Difference among Young Adults				
6	Development and Validation of a Novel Non-Invasive Device for identification of Aspiration risk	Dr Radish Kumar B, Mr Rahul, Dr Chaprapani, Mr Sudharshana Acharya(MSIS), Dr Prasantha Ghosh (IISc)	Biotechnology Industry Research Assistance Council ( BIRAC)	37,00,000.00	31 December 2021
7	Cross-Sectional Study Based Assessment of Cognitive Communicative Abilities in Preschool Children: A development Profile	Malavika A	National Council of Educational Research and Training-- Towards the ERIC Research grant	4,10,000.00	31 December 2021
8	'NeuroCognitive Linguistic Processing Skills In Children with Learning Disabilities, An Insight into identification and Management	Dr Jayashree Bhat	Government of India, Ministry of Science and Technology, DST, New Delhi	20,51,480.00	31 December 2021
9	Association of Occupational Ionizing Radiation Exposure with Hearing Among Hearing Among Health Professionals	Dr Arivudai Nambi	ICMR, New Delhi	10,53,198.00	31 December 2021
<b>Community Medicine</b>					
1	Incentives To Pregnant Mother During Antenatal Care For Better Maternal And Non-Neonatal Outcome	Dr Ramesh Holla	ICMR, New Delhi	9,08,370.00	24 February 2021
2	Hospital-Based Cancer Registries Data Management	Dr Unnikrishnan	ICMR, New Delhi	34,20,510.00	10 July 2021



	Software Under NCDIR, Bengaluru				
3	An Affordable therapeutic solution for rehabilitation of cerebral palsy children with crouch gait	Dr Unnikrishnan B	Science and Engineering Research Board (SERB) New Delhi	77,000.00	23 August 2021
4	Consultancy Service -Survey of Tertiary Level healthcare Hospitals of Various Districts in the state of Karnataka	Dr Vaman Kulkarni	Ministry of Health AND Family Welfare, Government Of India represented by NVR and Associated Ltd, New Delhi	10,17,500.00	31 December 2021
5	Building Capacity for prevention and control of vector-borne diseases in the rural communities of Mangalore	Dr B Unnikrishnan	Technip Relief and Development Fund, Paris, France	8,03,566.30	31 December 2021
6	AIIMS SRS Verbal Autopsy Project under the aegis of the Office of the Registrar General of India (ORGI) and Ministry of Home Affairs (MHA), Government of India.	Dr Vaman Kulkarni	All India Institute of Medical Sciences (AIIMS) New Delhi)	1,74,300.00	31 December 2021
7	Modular Intervention to Improve Paternal involvement and support for better Infant and Young Child Feeding (IYCF) in Dakshina Kannada District of Karnataka -A	Dr Prasanna Mithra P	PUBLIC HEALTH FOUNDATION OF INDIA (PHFI)	25,58,160.00	31 December 2021



	Randomized Controlled Trial				
8	Case Studies of Successful FAIMER Fellows using Success Case Method	Dr Animesh Jain	FAIMER, USA	9,71,869.23	31 December 2021
9	Evaluation of ONGC-MRPL wing of ladygoshen hospital building as corporate social responsibility	Dr Unnikrishnan	ONGC-MRPL	2,36,775.00	31 December 2021
10	NTF Project entitled; Descriptive Epidemiology of Unintentional Childhood injuries in India': An ICMR Task Force Multisite Study	Dr Nithin Kumar	ICMR	22,78,600.00	31 December 2021

**Microbiology**

1	Clinical, phenotypic and genotypic characterization of Healthcare-Associated Methicillin-Resistant Staphylococcus aureus	Ms Sreejisha M (PhD Student)	Department of Science and Technology (DST), New Delhi INSPIRE Fellowship	4,21,760.00	11 September 2021
2	Attitude and Knowledge of Antibiotic usage among people of Dakshina Kannada District and estimation of the burden of antibiotic-resistant gut bacteria in humans and poultry – A community-based study	Guide: Dr Shrikala Baliga Co-Guide: Dr Suchitra Shenoy	DBT SRF PhD Scholarship, DBT New Delhi	4,13,560.00	30 October 2021





3	Contract agreement addressed to Dr Akshata Mani	Dr Shrikala Baliga	PFIZER LIMITED	20,75,000.00	22 November 2021
4	Detection of common diarrheagenic bacterial and viral pathogens in faecal samples of paediatric patients by a polymerase chain reaction	PI: Dr Dhanashree B: CoI - Dr Suchetha S Rao, Dr Sevitha Bhat, Dr Archana Bhat and Dr Vidyalakshmi K	MAC ID	2,00,000.00	31 December 2021
5	Utility of direct detection of mecA gene in the clinical specimen for detection of Methicillin-Resistant Staphylococcus aureus	PI: Dr Sevitha Bhat, CoI: Dr Gopalakrishna Bhat, Dr Shalini Shenoy, Dr Pooja Rao	MAC ID	2,00,000.00	31 December 2021
6	ASPIRE STUDY (A Surveillance study on The Antibiotic Susceptibility Pattern of Bacterial Isolates collected from Patients at various Indian Tertiary Care Hospitals – A Multicentric PAN India study)	PI: Dr Shrikala Baliga, CoI: Dr Suchitra Shenoy	Wockhardt Limited	4,39,346.00	31 December 2021
7	Nanoparticle – encapsulated antibiotics to combat bacterial biofilms	Dr Suchithra Shenoy	MAC ID SEED MONEY	2,00,000.00	31 December 2021
8	TB fish assays for diagnosis of tuberculosis and mycobacteria other than tuberculosis	Dr Shrikala Baliga	ID Fish Technology INC	16,48,800.00	31 December 2021
9	Surveillance of antimalarial drug efficacy and characterization of	Ms Rakshita Maskeri	DST	22,09,352.00	31 December 2021



	drug resistance-associated genetic polymorphisms among Plasmodium falciparum and Plasmodium vivax in Mangalore				
<b>Orthopaedics</b>					
1	Study of Acoustic Dynamics and Volumetric Flow Analysis to Access arterial perforators by Doppler Ultrasound and its quantification by Computer Simulations and Bio Fluid Physics	Dr. Surendra Kamath	VGST	40,00,000.00	31 December 2021
<b>Paediatrics</b>					
1	Rotasiil Vaccine Impact Assessment study in Kerala, Karnataka, Maharashtra and Gujarat, India	Dr Nutan Kamath	Melinda Gates Foundation USA through CMC Vellore Association, Tamilnadu	1,76,204.00	16 September 2021
2	Rotasiil vaccine intussusception surveillance in Kerala, Karnataka, Maharashtra and Gujarat, India: RIS	Dr Kamalakshi G Bhat	Melinda Gates Foundation USA through CMC Vellore	4,88,048.00	31 December 2021
<b>Pathology</b>					
1	Utility of Serum Procalcitonin and CD64 ratio expressed on neutrophil, lymphocyte and monocyte subsets in the diagnosis of early onset Neonatal Sepsis	Dr Shridevi	MAC ID SEED MONEY	2,00,000.00	31 December 2021
2	Development of a label free Stokes-Muller polarization microscopy for tissue	PIP Dr Nirmal Mazumder Col: Dr Sharada Rai	SERB	39,92,560.00	31 December 2021



	characterization 2017, Dr Sharada Rai, Science and Engineering Research Board (SERB)				
<b>Pharmacology</b>					
1	Prevalence of Vitamin D deficiency in HIV Positive Patients and Effect of its Supplementation on Response to Antiretroviral Therapy, a prospective, Randomised Cross-Over study	Dr Priyanka Kamath	Science and Engineering Research Board (SERB) (Department of Science and Technology, Government of India)	14,82,250.00	31 December 2021
<b>Physiology</b>					
1	Smart brain of India versus tricky drugs	Dr Rashmi K S	IBRO	1,30,284.37	31 December 2021

MCOPS

Details of Research Grants:

Sl. No.	Project Name	Principal Investigator	Funding Agencies	Total Grants Received (INR)	Date(s)
<b>Administration</b>					
1	Development of multifunctional engineered nanocarrier delivery systems for oral administration of follicle-stimulating hormone	Dr Srinivas Mutalik	DST, New Delhi	6,80,413.00	1 January 2021 to 31 December 2021
<b>Pharma Quality Assurance</b>					
1	Assessment of MULMINA Amla Orange and the possible	Dr K Nandakumar	Jagdale Industries Pvt Ltd	1,17,292.00	1 January 2021 to 31 December 2021



	synergistic effect of its individual constituents by oxygen radical absorbance capacity (ORAC) assay				
<b>Pharmaceutical Biotechnology</b>					
4	Inspire Fellowship under INSPIRE Program-for Students pursuing full-time doctoral (PhD) program at MAHE	Ms Beena Thazhackavayal Baby Under Guide Dr Jesil Mathew A	Inspire Fellowship under INSPIRE Program	4,21,644.00	1 January 2021 to 31 December 2021
<b>Pharmaceutical Chemistry</b>					
1	A combined approach of structure-based drug design and drug repurposing strategy for the discovery of small molecules as inhibitors of Mycobacterium tuberculosis mmp13 (Mycobacterial membrane protein Large 3)	Dr Gautham Shenoy	AICTE, New Delhi	15,45,098.00	1 January 2021 to 31 December 2021
<b>Pharmaceutics</b>					
1	Development of Arteether Long Acting Depot Injection	Dr Srinivas Mutalik	Themis Medicare Ltd	3,44,560.00	1 January 2021 to 31 December 2021
<b>Pharmacology</b>					
1	Strategy to combat statins induced diabetes and its complication	Dr K Nandakumar	SERB, New Delhi	6,00,000.00	1 January 2021 to 31 December 2021
<b>Pharmacy Management</b>					



1	Life Cycle Management (LCM) Optimization Project	Dr Manthan D Janodia	Novartis Healthcare Pvt Ltd	1,18,000.00	1 January 2021 to 31 December 2021
<b>Pharmacy Practice</b>					
1	Development and implementation of mobile application as a teaching tool to enhance the practice of Evidence-Based Medicine (EBM)	Dr Girish Thunga	ICMR, New Delhi	4,73,600.00	1 January 2021 to 31 December 2021

MCODS Manipal

All other activities in the department relating to the program/course:

Sl. No.	Activity	Particulars	Date(s)
<b>Prosthodontics and Crown and Bridge</b>			
1	CAD-CAM workshop by Dentsply Sirona	Product demo and workshop for faculty, postgraduates and technicians.	7 December 2021

**Details of Research Grants:**

Sl. No.	Project Name	Principal Investigator	Funding Agencies	Total Grants Received (INR)	Date(s)
<b>Oral Medicine and Radiology</b>					
1	A novel X-ray beam positioning guide for accurate dental radiography	Dr Shruti Singh	BIRAC BIG-15	49.89 Grant sanctioned in August 2020, Money released in January 2021	
<b>Pedodontics and Preventive Dentistry</b>					
2	Remineralization potential of self-assembling peptide P11-4 on early enamel caries: An in-vitro study	Shruti Shetty, N Sridhar	Credentis, Switzerland	12,000 INR	years
3	Effect of paediatric syrups on colour stability of tooth coloured	Dr Susmitha Dr Deepika Pai	Ivoclar Vivadent	3,000 INR	2 years



	restorations used in paediatric patients: An vitor study				
<b>Public Health Dentistry</b>					
4	Partial waiver for manuscript processing charges for a payment processed in June 2021 Title: Profile of local dental emergencies and mitigation strategies – a survey among private dental practitioners of south India	Tina P P, Kalyana C P, Vidya Saraswathi M, Srikanth G, Rajshekhar N	Bentham Publishers	443 USD	6 months
5	Effectiveness of DISCOM (Distancing Individual From Smokers Community) intervention on oral Streptococcus mutans levels in an adolescent population of scheduled tribes exposed to Second Hand Smoke (SHS) in Udupi district: RCT	Dr Karthik M	ICMR – NCS Nurturing Clinical Scientist scheme	39 Lakhs INR	3 years
<b>Oral Pathology and Microbiology</b>					
6	Characterization of novel TGF- $\beta$ 1/SMAD regulated microRNAs in the rat model of oral submucous fibrosis	Dr Raghu Radhakrishna	DST SERB	34,48,500 INR	25 September 2018 to 25 September 2021
7	Epithelial Reprogramming of HOX Genes by Epigenetic Mechanisms and its the implication to Oral Cancers	Dr Raghu Radhakrishna	DBT Wellcome Trust India Alliance	3,22,97,737 INR	1 September 2019 to 1 September 2024
8	Bioincubator in Biopharma	Dr Raghu Radhakrishnan (Co PI)	Govt of Karnataka	5,60,00,000 INR	1 January 2018 to 1 January 2023

MCODS Mangalore

Details of Research Grants:


Sl. No.	Project Name	Principal Investigator	Funding Agencies	Total Grants Received (INR)	Date(s)
<b>Public Health Dentistry</b>					
1	A community survey on self-reported oral health measures among adults of Koila Village, Karnataka	Dr Sushma Rao, Dr Ramya Shenoy	Rotary Club, Puttur	10,000.00	1 December 2021 to 31 December 2021





	<p>9</p> <p>INDUSTRY INNOVATION AND INFRASTRUCTURE</p>				
2.	<p>Impact of COVID-19 on accessibility to dental health services among adult patients in Koila, Karnataka – A qualitative study</p> <p>9</p> <p>INDUSTRY INNOVATION AND INFRASTRUCTURE</p>	Dr Aishwarya, Dr Ramya Shenoy	Rotary Club, Puttur	10,000.00	1 December 2021 to 31 December 2021
3.	<p>Sexual dimorphism in the shape of the human premolars and molars: a 3D geomorphometric analysis</p> <p>9</p> <p>INDUSTRY INNOVATION AND INFRASTRUCTURE</p>	Dr Srikant N, Dr Junaid Ahmed	SERB	1,37,500.00	16 February 2021
4.	<p>Analysis of the differential response of human gingival fibroblasts and evaluation of the bacterial activity of surface characterized Titanium healing abutments using a physical sputtering method</p> <p>9</p> <p>INDUSTRY INNOVATION AND INFRASTRUCTURE</p>	Dr Akshara Bajaj, Dr Umesh Pai	ITI	88,000.00	28 July 2021
5.	<p>Comparative evaluation of the Cytotoxic effect of Dual cured cement on human gingival fibroblasts and its effect on the nature of the collagen: An Invitro Study</p> <p>9</p> <p>INDUSTRY INNOVATION AND INFRASTRUCTURE</p>	Dr Amrita Bellap, Dr Umesh Pai	ITI	35,000.00	28 July 2021
6.	<p>Efficacy of medicinal herbal tea on smoking cessation: a randomized controlled trial</p> <p>9</p> <p>INDUSTRY INNOVATION AND INFRASTRUCTURE</p>	Dr Aparna K S	IAPHD (Indian Association of Public Health Dentistry)	20,000	20 December 2021
7.	<p>Impact of COVID-19 on Accessibility to Elective Dental Care among Older adults -A qualitative study</p>	Dr Mridula Jain, Dr Boothapaty Faith Rana Jason,	IAPHD (Indian Association of Public Health Dentistry)	5,000.00	20 December 2021



<b>9</b>  INDUSTRY INNOVATION AND INFRASTRUCTURE		Dr Ramya Shenoy Kudpi			
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MCON

Details of Research Grants:

Sl. No.	Project Name	Principal Investigator	Funding Agencies	Total Grants Received (INR)	Date(s)
1	Establishing a cross-disciplinary Partnership to Explore Women's Everyday Experiences and Infrastructural Challenges of Healthcare Systems in Relation to Maternal and Neonatal Health to Scope Opportunities for Digital Health Technologies in the Global South	Dr Judith Angelitta Noronha, Professor and HoD and Associate Dean, Department of OBG Nursing, MCON	University of Leicester, UK	of 1,00,829.30	01 April 2019 to 30 June 2019
2	Developing family and community capacity to provide evidence-informed advanced dementia care and reduce risks of dementia-related elder abandonment and abuse.	Dr Elsa Santombi Devi, Professor and Head, MCON	University of the West of Scotland	of 6,66,640.00	01 April 2019 to 30 September 2019



3	Indigenizing Evidence Synthesis and Systematic Reviews for International Development and Global Challenges	Dr Baby S Nayak, Professor and HoD, Department of Child Health Nursing, MCON	Scheme for Promotion of Academic and Research Collaboration (SPARC), GOI	10,00,000.00	01 July 2019 to 31 July 2019
4	Indigenizing Evidence Synthesis and Systematic Reviews for International Development and Global Challenges	Dr Baby S Nayak, Professor and HoD, Department of Child Health Nursing, MCON	Scheme for Promotion of Academic and Research Collaboration (SPARC), GOI	15,00,000.00	11 July 2019 to 31 December 2021
5	Effectiveness Of Nursing Intervention Module On Knowledge, Adherence, Complications And Quality Of Life Of Persons Receiving Anticoagulation Therapy-A Randomized Controlled Trial	Mrs Janet Prameela D'Souza, Assistant Professor, Department of Medical Surgical Nursing, MCON, Manipal	Indian Council of Medical Research (ICMR), New Delhi	5,35,020.00	01 August 2019 to 31 July 2022
6	Impact of a customized nutritional package on macro and micronutrients (MAMN) in wound management among patients of Kasturba Hospital	Dr Latha T, Assistant Professor, Department of Medical Surgical Nursing, MCON	Indian Council of Medical Research (ICMR), New Delhi	4,51,500.00	01 September 2019 to 31 August 2022
7	Effectiveness of a mobile health	Dr Sonia R B D'Souza,	Public Health Foundation of	1,92,092.00	01 September 2019



	(mHealth) Cardio-vascular Diseases' Care Program (mHealth CVDCP) for premenopausal and perimenopausal women	Professor, Department of OBG Nursing, MCON Manipal	India and Department of Science and Technology (DST, India)		
8	Effectiveness Of Peanut Ball Device During Labour On Maternal and Neonatal Outcomes And Stress Level In Low-Risk Primigravid Women-A Randomized Controlled Trial	Mrs Pratibha, Assistant Professor, Department of OBG Nursing, MCON, Manipal	Indian Council of Medical Research (ICMR), New Delhi	17,96,065.00	01 September 2019 to 31 August 2022
9	Structure, Staffing, and factors affecting (SSF) Infection Control Nurses (ICNs): National Based Hospital Study	Dr Anice George, Professor and Dean, MCON	Indian Council of Medical Research (ICMR), New Delhi	7,74,000.00	15 October 2019 to 14 October 2022
10	Effectiveness of a mobile health (mHealth) Cardio-vascular Diseases' Care Program (mHealth CVDCP) for premenopausal and perimenopausal women	Dr Sonia R.B D'Souza, Professor, Department of OBG Nursing, MCON Manipal	Public Health Foundation of India and Department of Science and Technology (DST, India)	10,52,720.00	24 October 2019 to 23 October 2020
11	One Day Awareness Programs on	Dr Binil V, Associate Professor,	National Institute of Social Defence,	4,00,000.00	14 November 2019 to 08 February 2020




	Drug Abuse Prevention for College of Nursing, MAHE, Manipal	Department of Mental Health Nursing, MCON, Manipal	Ministry of Social Justice and Empowerment, Government of India, New Delhi		
12	Effectiveness of yogic mudras and reflexology on climacteric symptoms, sleep, stress, bio-physiological parameters, fatigue, and quality of life among 40-55 years of women in selected areas of Udupi taluk, Karnataka	Mrs Ranjani P, Assistant Professor (senior scale), Department of OBG Nursing, MCON, Manipal	Department of Science and Technology (SATYAM), Government of India, New Delhi	3,18,200.00	3 March 2020
13	Effectiveness of Capacity Building: Integrating the Palliative Care and Symptom relief into Primary Health Care – An Evaluative approach	Dr Malathi G Nayak, Associate Professor, Department of Community Health Nursing, MCON, Manipal	Indian Council of Medical Research (ICMR), New Delhi	24,40,025.00	5 Nov 2020

### MMMC

#### Details of Research Grants:

Sl. No.	Project Name	Principal Investigator	Funding Agencies	Total Grants Received (INR)	Date(s)
Pharmacology					
1	Studies on the role of Histone deacetylase (HDAC) inhibitors in reprogramming cancer cell metabolism to reverse cisplatin	Dr Vasudha Devi, Professor, Department of Pharmacology	ICMR	9,54,000	25 February 2021



resistance in patient-derived xenograft model of ovarian cancer				
				

MCHP

Details of Research Grants:

Project Name	Principal Investigator	Funding Agency	Total Grants Received (INR)	Date(s)
<b>Cardiovascular Technology</b>				
The role of undersized balloon pre-dilation before thrombus aspiration and saline auto-perfusion on reperfusion in patients with ST-elevation myocardial infarction- A prospective cohort study	Ms Rekha V	Sahajanand Medical Technologies Pvt Ltd.	1,00,000/-	20 March 2020 to 19 March 2024
Impact of single and dual chamber cardiac function and mechanics using tissue deformation imaging in a cohort study	Mr Umesh Pai	St Jude Medical India Pvt Ltd	1,00,000/-	15 January 2019 to 31 December 2022
<b>Medical Imaging Technology</b>				
Artificial Intelligence Enabled Acute Ischemic Stroke's Infarct's Volume Estimation, Intracranial Emergent Large Vessel Occlusions Quantification	Dr Saikiran P	Philips India Ltd	50,000/-	28 May 2021 to 28 May 2023
Establishing diagnostic reference levels and optimization of radiation dose for head and neck and pelvic computed tomography protocols	Ms Shree Kripa, Co-Investigator-Dr Suresh Sukumar	ICMR	18,00,000/-	16 August 2020 to 15 August 2023





in radiation therapy planning				
<b>Medical Laboratory Technology</b>				
Validation of CERVA STRA - A point of care system for the screening of cervical cancer, with the conventional Pap smear method Phase II	Dr Saleena Ummer V	Alndra Systems Pvt Ltd	5,87,125/-	01 December 2020 to 30 September 2022
<b>Medical Radiation Physics Program</b>				
Establishing diagnostic reference levels and optimization of radiation dose for head and neck and pelvic computed tomography protocols in radiation therapy planning	Shreekripa	ICMR	35,00,000/-	16 August 2021 to 16 August 2024
<b>Nuclear Medicine</b>				
Development and assessment of P-32 labelled arabinogalactan and cu-64 labelled arabinogalactan for asialoglycoprotein receptor director therapy of hepatocellular carcinoma	Dr Sanjay Bharati	ICMR	12,37,813/-	30 March 2021 to 29 March 2022
<b>Optometry</b>				
Evaluation of occupational ocular hazards and preventive strategies among farmers in India	Dr Krithica S	Optometry Council of India, Bangalore	39,500/-	8 October 2021 to 8 September 2024
Mobile eye-tracking technology for early detection of glaucoma	Dr Shonraj Ballae Ganeshrao	DST India	12,55,700/-	26 May 2020 to 25 May 2023
Visual functional deficits in Primary Angle Closure Glaucoma	Dr Shonraj Ballae Ganeshrao	SERB India	1,00,000/-	18 January 2020 to 17 January 2022



Physiotherapy				
Design and Development of LASER Shoe for the Management of Diabetic Peripheral Neuropathy Pain in People Living with Type 2 Diabetes Mellitus	Dr G Arun Maiya	DST, New Delhi	23,30,000/-	02 July 2018 to 31 March 2021
SPARSH – Innovative new device for the early detection of diabetic peripheral neuropathy	Dr G Arun Maiya	Yostra Labs Private Limited	7,71,750/-	24 March 2017 to 23 March 2022
ARISE: Effects of warm oxygen therapy on biomarker and healing dynamics of diabetic foot Ulcer-Prospective pre-post design	Dr G Arun Maiya	Yostra Labs Private Ltd	7,98,400/-	25 June 2019 to 31 October 2021
Effects of warm oxygen therapy (Kadam) on healing dynamics of type 2 diabetes with neuropathic ulcer	Dr G Arun Maiya	Yostra Labs Private Ltd	5,99,676/-	25 June 2019 to 24 June 2021
Exosomes in pulmonary arterial hypertension with and without exposure to exercise	Dr Abraham Samuel Babu	ICMR, New Delhi	48,83,882/-	01 August 2019 to 31 July 2022
The effectiveness of a capacity building education and training module on the caregivers of children with cerebral palsy through a family centred approach to the quality of life and family empowerment	Mrs Deepalaxmi Paresh Poojari	NCERT, New Delhi	4,51,500/-	23 June 2020 to 22 September 2021
Effect of Matrix Rhythm Therapy on Neuropathic Pain Specific Markers in Diabetic Peripheral Neuropathy	Dr G Arun Maiya	International Medical Technologies	4,20,000/-	01 September 2020 to 31 August 2021




Effectiveness of Yoga and Lifestyle Modification program on leptin resistance and quality of life in Metabolic Syndrome	Dr G Arun Maiya	DST, New Delhi	33,32,375/-	21 March 2020 to 20 March 2023
Efficacy of Pulmonary rehabilitation program on quality of life and functional capacity in patients with interstitial lung disease	Dr Vaishali K	ICMR, New Delhi	24,00,000/-	29 September 2021 to 27 September 2024
<b>Renal Replacement Therapy and Dialyses Technology (RRT and DT)</b>				
Effect of integrated focused renal supportive care on symptom burden, quality of life and advance care planning in end-stage renal disease patient: A Randomized Controlled Trial	Dr Shankar Prasad/Ms Bharathi (PhD topic)	ICMR	14,04,300/-	15 October 2021 to 15 October 2024
<b>Respiratory Therapy</b>				
Driving Pressure in Acute respiratory distress syndrome	Ms Pratibha Todur	ICMR	12,48,076/-	1 October 2021 to 31 March 2024
<b>Occupational Therapy</b>				
A scoping review of family-centred occupational therapy interventions for dementia: A cross country collaboration	Dr Sebestina Anita Dsouza	SPOT Global Health	2,01,086.73/-	01 January 2021 to 31 December 2021
Digital health technology use and potential for people living with chronic diseases in low, middle, and high-income countries: A synthesis of the evidence	Dr Vinita Acharya	SPOT Global Health	2,01,086.73/-	01.01.2021 to 31.12.2021
Effectiveness of a mother mediated occupational therapy early intervention program with mobile-enabled adherence	Ms Rupambika Sahoo, Dr Sebestina Anita Dsouza,	ICMR	32,04,616/-	12 March 2021 to 11 March 2024




strategies to support the mother's self-efficacy and infant development				
Managing time in dementia	Dr Sebestina Anita Dsouza, Dr Vinita Acharya	ICMR	8,75,610/-	27 February 2021 to 26 May 2022
The impact of mobile-based fall education application on the fall risk factor in the older adult.	Dr Sebestina Anita Dsouza, Dr Sumita Rege	ICMR	37,07,752/-	08 September 2021 to 07 September 2024
<b>Nuclear Medicine</b>				
Anticancer effect of mitochondria-targeted antioxidant, Mito-TEMPO against N-nitrosodiethylamine-induced murine hepatocarcinogenesis: A mechanistic study	Mr Sachin Shetty	ICMR, New Delhi	4,73,600/-	04 July 2021 to 04 June 2024

## PSPH


### Details of Research Grants:


Sl. No.	Project Name	Principal Investigator	Funding Agencies	Total Grants Received (INR)	Date(s)
<b>Data Science</b>					
1	Academic Stress, Depression and Anxiety among Grade 11 and 12 Learners of Coastal Karnataka: A Cross-Sectional Study	Dr Shreemathi Mayya	Indian Council of Social Science Research (ICSSR)	10,00,000.00	1 May 2019 to 30 May 2021
					



2	Matrices, Generalized Inverses, and Applications 	Dr K Manjunatha Prasad	Engineering Research Board (SERB)	19,54,832.00	29 March 2019 to 29 March 2022
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**Global Health**





1	To implement a Comprehensive Cancer Care and Support project at MAHE, with an aim to improve the quality of life of individuals diagnosed with cancer and their family members, through comprehensive cancer care 	Dr Lena Ashok	Cyno Pharmaceuticals, New Delhi	7,07,040.00	5 September 2019 to 4 September 2022
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2	Assessing the health status of the community surrounding UPCL 	Dr Lena Ashok	Udupi Power Corporation Limited, Udupi	10,62,000.00	27 November 2021
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**Health Information**

1	Inclusive Cities through Equitable Access to Urban Mobility	Professor Dr Ajay Bailey	NWO-WOTRO Science for Global Development	4,00,00,000.00	1 March 2019 to 1 March 2023
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	Infrastructures for India and Bangladesh 				
<b>Health Policy</b>					
1	Strengthening of Oxygen Ecosystem in the state of Karnataka 	Dr Sanjay Pattanshetty	D A Prasanna endowment fund	14,90,000.00	1 November 2021 to 30 June 2022
2	Non-invasive Haemoglobin detection for Anaemia among patients in Healthcare settings of Bengaluru, Bellary, Mangalore, Udupi and Koppal taluk 	Dr Rahul Clare	Robert Bosch Engineering and Business Solutions Pvt Ltd.	23,16,208.00	1 January 2020 to 07 February 2021
3	Risk Management and Prevention of Antibiotics Resistance- PREVENT IT 	Dr Helmut Brand	European Commission funded Erasmus+ Grant - PREVENT IT	90,00,000.00	6 June 2019 to 31 December 2021






Details of Research Grants:

Sl. No.	Project Name	Principal Investigator	Funding Agencies	Total Grants Received (INR)	Date(s)
1	Evaluation of rationally Designed Influenza vaccines (ENDFLU)	Dr Anitha J	DBT, Government of India	68,16,240.00	1 January 2021 to 31 December 2021

MTMC

Details of Research Grant

Sl. No.	Project Name	Principal Investigator	Funding Agencies	Total Grants Received (INR)	Date(s)
1.	Verification of Sub-national claims for progress towards TB free status in India, 2020 for Seraikela-Kharsawan district 	Dr Ratnesh Sinha	ICMR-NIE	4,88,000/-	January 2021 to March 2021

MIT

Details of Research Grants:

Sl. No.	Project Name	Principal Investigator	Funding Agencies	Total Grants Received (INR)	Date(s)
<b>Aeronautical and Automobile Engineering</b>					
2	Active and Passive Cooling of Lithium-Ion Battery of an Electric Vehicle	Dr Pramod Salunkhe	MAHE Seed Money	19,760/-	1 October 2021 to 1 September 2023
<b>Biomedical Engineering</b>					
3	Dynamically Tunable Hydrogels for Modulating cell behaviour	Dr Mathew Peter	Intramural by MAHE	4,45,000/-	19 July 2021 to 19 July 2024
<b>Biotechnology</b>					
5	Optimization of thermostable GH5 enzyme production from	Dr Kannan	MAHE Seed Grant	50,000/-	1 October 2021 to 30 September 2023



	microorganism for food applications				
<b>Chemical Engineering</b>					
3	Modular Design Water Filtration System	Dr Gautham Jeppu	KSCST	6,500	1 February 2021 to 30 June 2021
<b>Civil Engineering</b>					
1	Network project	Dr K Balakrishna	Ministry of Earth Sciences	25,80,400/-	28 March 2019 to 31 March 2022
<b>Electrical and Electronics Engineering</b>					
1	Spectrally Tunable LED luminaire for improving system energy efficiency, comfort and health of occupants	Dr Ciji Pearl Kurian	AICTE	18,23,529/-	15 December 2020 to 15 December 2023
<b>Electronics and Communication Engineering</b>					
3	Development of MEG-MRI coregistration tool with automatic landmarks detection for the magnetic source imaging”	Dr Anitha H	ICMR	12,00,000/-	15 December 2021 to 14 December 2024
<b>Humanities and Management</b>					
1	A study on innovation performance of Technology incubation centres located across technical institutes of Karnataka	Dr K V Sriram	Department of Science and Technology (DST)	5,00,000/-	1 January 2021 to 31 December 2021
<b>Information and Communication Technology</b>					
2	Effectiveness of a mother-mediated occupational therapy early	Dr Balachandra	ICMR	32,04,616/-	19 March 2021 to 18 March 2024




	intervention program with mobile-enabled adherence strategies to support mother's self-efficacy and infant development				
<b>Instrumentation and Control Engineering</b>					
1	Synthesis and evaluation of antiviral action of copper nanoparticle formulations with pathogenic viruses	Dr Kapil Sadani	IIT B	3,22,000/-	6 October 2021 to 6 October 2023
<b>Mechanical and Manufacturing Engineering</b>					
1	“Design and Development of Selective Catalytic Reduction Modules for NOx Reduction from Compression Ignition Engines”	Dr Dinesha P, Associate Professor	VGST grant from the Government of Karnataka	3,00,000/-	1 February 2021 to 31 January 2022
<b>Printing and Media Engineering</b>					
1	Synthesis of Cu nanoparticles and Metal complex based conductive Ink for Application in Flexible PCBs, Flexible Sensors and	Dr Selva Kumar M and Mr Ramakrishna Nayak	MAHE	50,000/-	1 January 2020 to 31 December 2021



	Flexible Supercapacitor				
<b>Physics</b>					
1	Collaborative Research Scheme	Dr Ashwatha Narayana Prabhu	UGC DAE CSR Mumbai	44,547/-	1 January 2021 to 31 December 2021

#### MSAP

Books/chapters authored by faculty members:

Sl. No.	Name of the Book	Chapter(s) name (if authored, chapters only)	Faculty members	Publisher	Date
1	Industry, Innovation and Infrastructure  INDUSTRY INNOVATION AND INFRASTRUCTURE	Income Generation Through Infrastructure, Industry, and Innovation (Book Chapter)	Rituka Kapur (Co-Author)	Springer, Cham	9 January 2021


#### MSIS

Details of Research Grants:

Sl. No.	Project Name	Principal Investigator	Funding Agencies	Total Grants Received (INR)	Date(s)
2.	Design and development of Wearable Electrolarynx with minimal human intervention and speech enhancer	Dr Madhushankara M	BDTD	11,89,900/-	1 January 2021 to 31 December 2021

#### MIM

Details of Research Grants:

Sl. No.	Project Name	Principal Investigator	Funding Agencies	Total Grants Received (INR)	Date(s)
1	NABARD  INDUSTRY INNOVATION AND INFRASTRUCTURE	Dr Joshi	NABARD	4,35,000.00	1 April 2021 to 31 March 2021



## DAMP

### Details of Research Grants:

Sl. No.	Project Name	Principal Investigator	Funding Agencies	Total Grants Received (INR)	Date(s)
1	Development of a miniaturized and portable laser-induced Breakdown Spectroscopy LIBS set-up for fast identification and sorting of different plastic classes	Dr Unnikrishnan V K, Dr Santhosh Chidangil and Dr E Bhoje Gowd	DST, New Delhi	35,76,423/-	2019 to 2021
2	Establishing a Bio-Photonics Research facility for the development and demonstration of Screening for early detection of Cervical Cancer using Laser Spectroscopy techniques	Dr Santhosh Chidangil and Dr Muralidhar V Pai	VGST	40,00,000/-	2016 to 2021
3	Liquid Biopsy for Oral Cancer Screening using Super-hydrophobic Surface-Enhanced Raman Plasmonic Droplet Assay	Dr Sajan Daniel George, Dr Keerthilatha M Pai and Santhosh Chidangil	DST	30,52,136/-	2019 to 2022
4	Development of inexpensive surface Plasmon resonance SPR based biosensor for the detection of cardiovascular diseases	Dr Rajeev Kumar Sinha and Dr Tom Devasia	DST	21,52,000/-	2019 to 2022
5	Development of a vortex beam based plasmonic Raman tweezers setup for single, live cell-membrane studies	Dr Aseefhali Bankapur, Dr Santhosh Chidangil	SERB	22,25,000/-	2020 to 2023
6	Portable surface-enhanced Raman spectroscopy set up for the screening of lung cancer by breath analysis	Dr Aseefhali Bankapur, Dr Vyshak U S, Dr Santhosh Chidangil	DST	35,08,533/-	2020 to 2023



7	Femtosecond laser-assisted fabrication of wetttable and anti-microbial contact lenses	Dr Sajan D George, Dr Santhosh Chidangil	SERB	35,57,300/-	2020 to 2023
8	"Fingerprinting authenticity of Ayurvedic preparations using ambient electro-spray deposition Raman spectroscopy (AERS), a home-grown method for rapid analysis"	Investigators: Dr T Pradeep, IIT Madras and Santhosh Chidangil Co-Principal Investigator: Dr Basavaraj	DST	22,05,520/-	2021 to 2024

### MCH

Details of Research Grants:

Project Name	Investigator	Funding Agency	Total Grant (INR)	Dates
Culture, Context and Ageing: Narratives of Older Indians from India and Beyond	Jagriti Gangopadhyay	Shastri Publication Grant	1,00,000.00	9 November 2020 to 28 February 2021

### MCNS

Details of Research Grants:

Sl. No.	Project Name	Principal Investigator	Funding Agencies	Total Grants Received (INR)	Date(s)
1	Variability of the UV sky using UVIT onboard ASTROSAT	Dr Debbijoy Bhattacharya	DOS sponsored research program (RESPOND)	27,66,000.00	1 January 2021 to 31 December 2021
2	Study of emission mechanism of blazars in AstroSat era	Dr Debbijoy Bhattacharya	Indian Space Research Organisation (ISRO)	16,93,000.00	1 January 2021 to 31 December 2021






### MIRM

Details of Research Grants:



Sl. No.	Project Name	Principal Investigator	Funding Agencies	Total Grants Received (INR)	Date(s)
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1	Development of potent anti-angiogenic small peptides Wnt inhibitor, CSC201, as powerful anti-tumorigenic drug compounds using stem cell-derived, blood vessel organoids	Dr Sudha Warriar	ICMR, New Delhi	25,03,500/-	15 December 2021 to 14 December 2024
					
2	Role of P21-activated kinase-1 in the regulation of proteotoxicity induced endo-lysosomal pathology in the cellular models of Alzheimer's disease	Dr Sangeeta Nath	SERB, New Delhi	18,39,000/-	29 December 2021 to 28 December 2023
					
3	Lysosomal pathology in relation to translocation of PAK1, synaptic dysfunction, and modulation of membrane actin protrusions: in Alzheimer's patient-derived iPSC model	Dr Sangeeta Nath	ICMR, New Delhi	15,49,618/-	15 September 2021 to 14 September 2024
					
4	Fabrication of synthetic and biological material based on 3D uterine myometrial tissue patches	Dr Manasa Nune	SERB, New Delhi	2,00,000/-	21 September 2021 to 27 February 2022
					
5	Exploring the molecular mechanism underpinning arterial calcification in ADCC/CALJA (a rare disease marked by NTSE gene mutations) by CRISPR-CAS9 mediated gene editing	Dr Jyothi Prasanna	ICMR, New Delhi	11,70,723/-	4 August 2021 to 13 August 2023
					
6	Investigating the role of USPI deubiquitinase in generating matured insulin-producing B-cells using iPSC based model system	Dr Anujith Kumar	ICMR, New Delhi	18,91,341/-	22 March 2021 to 21 March 2024



					
7	<p>In-depth evaluation of Mesenchymal stem cells from Oral precancerous Lesions and OSCCs towards the development of novel treatment strategies aimed at the manipulating the stromal networks in the tumorigenic niche</p> 	Dr Vineetha Christopher	ICMR, New Delhi	7,19,360/-	6 April 2021 to 5 April 2024

### MCHP, Bengaluru

#### Details of Research Grants:

Project Name	Principal Investigator	Funding Agency	Total Grants Received (INR)	Dates
Effect of Yoga in Telomere length in Type II Diabetes Mellitus - A Randomized Controlled Trial.	Dr Prem V	DST India	1,45,800/-	
Comparison of yoga in dynamic neuromuscular stabilization on multifidus muscle using MRI in chronic low back pain – A Randomized controlled trial.	Dr Prem V	DST India	18,50,060/-	
Enabling functional mobility through advanced gait analysis and virtual reality.	Dr Prem V and Dr Karthik Babu S	BIRAC	10,00,000/-	

### MAHE Dubai Campus

#### Details of Research Grants:

Sl. No.	Project Name	Principal Investigator	Funding Agencies	Total Grants Received (INR)	Date(s)
<b>MAHE-Dubai</b>					
1	Building Solar powered home	Dr Ravishankar Dudhe and Dr Bhakti More	Dubai Electricity and Water Authority (DEWA), Solar Decathlon	82,93,794.00	1 January 2019 to 31 December 2021



			Middle East 2021		
2	Building Solar Powered home	Dr R S Dudhe and Dr Bhakti More, Mr Deep Aranha	Emirates Electrical Engineering (Solar PV), Master Builders (EFIS Cladding), Electrolux (Electrical Appliances), Airzone + BETA + Daikin (HVAC + Air filters), Energie (Solar water heater) Ideal Standard (Sanitaryware), Smart IoT (Automation), ANID (Carpentry), Standard Carpet (Carpet), 3-Phase services (Energy monitoring and control)	56,39,780.00	1 January 2019 to 31 December 2021
3	VIBrain	Dr Sophia Rahaman	Expolive Innovation Program	5,43,860.00	1 February 2019 to 30 September 2019
4	Analysis of the anti-cancer potential of Bioactive compounds luteolin and Myricetin in Human cervical cancer cells”	Dr Arif Hussain (Co-PI)	Research Incentive Fund Grant of Zayed University-Dubai	42,64,000.00	1 April 2019 to 31 March 2021
5	Architectural and Urban Development of Sharjah: Spatial Analysis of Museums Typology	Dr Ashok Iyer	Sharjah Museum	1,75,000.00	12 June 2019 to 16 December 2019
6	Design and Development of a	Dr S V Kota Reddy	ASHRAE	2,13,659.00	8 July 2019 to 8 July 2020



	Solar Desalination System assisted by thermoacoustic cooling				
7	Baja Project	Mr Sampath Suranjan, Dr Rajiv Selvam	Sparklet	7,76,943.00	10 July 2019 to 10 January 2020
8	Final Phase III- Analysis of classification of approaches of learning in Architectural Education through NVivo 12 and SPSS	Dr Ashok Iyer	MAHE Dubai	2,04,185.00	1 November 2019 to 1 October 2020
9	EXPOLIVE research support from CSE	Dr Sophia	EXPOLIVE University Innovation	5,55,914.00	1 January 2020 to 30 June 2020
10	Experimental Investigation of Fabric Reinforced polymer composite laminate for Ballistic Applications	Dr Rajiv Selvam (PI)	MAHE Dubai	1,98,541.00	1 January 2020 to 31 October 2020
11	SOLIDWORKS licence	Professor Sampath	SOLIDWORKS	24,81,760.00	1 January 2020 to 30 September 2020
12	Team Tawazun	Dr Ravishankar	SDME, DEWA	79,41,630.00	1 January 2020 to 31 October 2021
13	Team Tawazun	Dr Ravishankar	Spencer Interiors	99,270.00	1 January 2020 to 31 October 2021
14	M1 DOBOT - Collaborative Robot Arm and various other accessories	Prof. Ganesan, Mr Farzeen, Dr Amit Kumar Mondal	EdNex as a part of Industry engagement to support Labs, Projects, and Research activities	7,94,163.00	1 February 2020 to 31 May 2021
15	Blockchain mobile application	Prof. Ganesan	Blockchain Innovative challenge	1,98,541.00	01 February 2020 to 30 June 2020
16	Design Solar Desalination System Thermoacoustic cooling	Dr S V Kota Reddy	ASHRAE	2,18,395.00	01 February 2020 to 31 December 2020



17	Design & Fabrication of Hybrid Desiccant and vapour compression cycle dehumidification system	Dr S V Kota Reddy and Professor Sampath	MAHE Dubai	99,270.00	01 June 2020 to 31 October 2020
18	Collaborative Research Project on Epoxy Diluents	Dr Vandana Sakhre	Masters Builders Construction Chemicals (BASF), Dubai	3,26,568.00	1 September 2020 to 31 August 2021
19	Collaborative Research Studies on Epoxy Resin Diluent	Dr Vandana Sakhre	BASF	1,48,906.00	1 October 2020 to 31 March 2021
20	“Analysis of anti-cancer effects of the dietary agent in human cervical cancer cells”	Dr Arif (Co-PI)	College of Applied Medical Science, Qassim University-KSA	7,80,000.00	1 January 2021 to 30 June 2022
21	“Molecular characterization of microorganisms from water/wastewater and soil environments”	Dr Faheem (Co-PI) Dr Naushad (Co-PI)	Zayed University Department of Life and Environmental Sciences	12,00,000.00	1 January 2021 to 31 December 2021
22	To build a LEAD zero Solar based home that strikes the perfect balance between vernacular design and modern technologies	Dr Ravishankar Dudhe	TAWAZUN: Solar-decathlon Middle east 2020 Dubai Electricity and Water Authority (DEWA)	82,93,794.00	1 April 2021 to 31 December 2021
23	Team Tawazun Solar Decathlon Middle East	Dr R S Dudhe, Dr Bhakti More, Ms Deep Aranha	Solar power system for NetZero Solar powerhouse	56,39,780.00	1 April 2021 to 31 December 2021
24	Octabin prototype development	Dr Sophia Rahaman	Research and Development Program (R&DP), MAHE Dubai	1,45,141.00	1 April 2021 to 31 March 2022
25	A self-Navigation robotic platform for	Dr Abdulla K P	Research and Development Program	1,65,875.00	1 April 2021 to 31 March 2022



	research and development		(R&DP), MAHE Dubai		
26	Design and Simulation of a Hemodialyzer membrane using FME	Dr Ravishankar Dudhe	Research & Development Program (R&DP), MAHE Dubai	3,73,220.00	1 April 2021 to 31 March 2022
27	Design and Fabrication of rotary type humidifier in arid regions	Professor Sampath	ASHRAE	2,80,000.00	1 September 2021 to 31 January 2022
28	Centrifugal Humidifier	Professor Sampath	ASHRAE	84,500.00	1 September 2021 to 31 January 2022
29	“Study of anti-cancer properties of Naringenin/Apigenin on human cancer cells”	Dr Arif Hussain (PI) Dr Faheem SM (Co-PI) Dr Naushad Rais (Co-PI)	MAHE Dubai Internal Grant	1,80,000.00	1 December 2021 to 30 November 2022
30	Hydraulic Connectivity of surface water groundwater reserves: A regional Assessment	Professor Deepa Varghese	Manipal Research Grant	1,00,000.00	1 December 2021 to 30 November 2022
31	Urban Studio Research Project USRP-humane Living conditions for Migrant workers in Dubai	Dipti Shukla	MAHE Dubai	30,000.00	1 January 2022 to 31 December 2024
32	TRIZ Principles as an Innovation Aid to Design Thinking in the context of Product Design Coursework (An Application)	Vidya Rao	MAHE Dubai	40,000.00	1 January 2022 to 31 December 2023
33	Analysis of bonding of eternally bonded fibre reinforced polymer to RC beams	Dr Surumi R	Research and Development Program (R&DP), MAHE Dubai	2,07,344.00	1 April 2022 to 31 March 2022