

**JSS AHER**  
**JSS MEDICAL COLLEGE, MYSURU**  
**ONGOING RESEARCH PROJECTS - 2020 - NATIONAL**

Sl. No.	Title of the Project	Name of the Principal Investigator/Mentor & Département	Sanctioned by	Project Sanctioned letter No. & Date	Grants Sanctioned	Duration of the Project
1	Isolation of colorectal Cancer stem cells based on biomarker expression & test efficacy of piper Nigrum as an anticancer agent for further use in translational studies	Dr.Akila Prashant Asso.Professor Professor Dept. of Biochemistry JSS MC, Mysuru	VGST	VGST/P-7/CESEM/2011-12/1141,dated:22-12-2011	6000000	03 Yrs.
2	Assessing functional role of Nrf2 signaling in vitamin D deficiency induced cognitive dysfunction in Type 2 Diabetes Mellitus	Dr. Rajalakshmi R Professor & Head Dept. of Physiology JSS MC, Mysuru	DST	SR/CSRI/44/2016 Dt: 24.11.2016	5147600	03 Yrs.
3	Development of Moringa- Isothiocyanate as Nutraceutical activator of Nrf2 signaling for mitigation of dyslipidemia	Dr.Rajesh Kumar Thimmulappa Associate Professor Dept of Biochemistry JSS MC, Mysuru	DST	DST/INT/South Africa/P-13/2016 Dt: 18.11.2016	3281350	03 Yrs,
4	Dysfunctional HDL: A diagnostic target for atherosclerosis risk in Type 2 diabetes Mellitus	Dr.Swetha N K Asst. Professor Dept. of Biochemistry JSS MC, Mysuru	DBT	BT/PR18776/BIC/101/245/2016 Dated: 14.12.2017	3652319	03 Yrs.
5	A study of RT-PCR quantification of 16SRNA and 18-kDa antigen gene targets in assessing the efficacy of multi-drug therapy in leprosy	Dr.Ranugha P.S.S. Assistant Professor Dept. of Dermatology JSS MC, Mysuru	IADVL Research Grants	Through E-mail Dated: 11.08.2017	443000	03 Yrs.
6	Discovering Phytochemicals for promoting Longevity and Healthy Ageing using drosophila model	Mrs.Veena R SRF Dept. of Biochemistry JSS MC, Mysuru	ICMR	No.45/08/2018- PHA/BMS/OL, Date: 10.04.2018	910400	03 Yrs.
7	Understanding the role of Vitamin D on Glomerular Basement Membrane (GBM) constituents during diabetic nephropathy	Dr.Paramahans Salimath Director (Research) JSSMC, Mysuru	SERB	EMR/2017/001754 08.05.2018 EMR/2017/001754 Dt: 08.09.2018	5130000	03 Yrs.

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8	Loop-mediated Isothermal Amplification (IAMP) directed diagnosis of bacterial born neonatal sepsis and characterization of pathogenic bacteria utilizing multiplexed real time quantitative polymerase chain Reaction (QPCR) in a Tertiary care hospital	Mr.Anshu Kumar Yadav Sr.Research Fellow Dept. of Biochemistry JSS MC, Mysuru	ICMR	RBMH/FW/2018/9 Dt: 18.06.2018	869348	03 Yrs.
9	FIST PROGRAMME - 2018 (TPN-20003)	Dr.Subbarao M V S S T Professor Dept. of Biochemistry JSS MC, Mysuru	DST	NO. SR/FIST/LS- I/2018/178(C) Dt: 03.01.2020	56,40,000.00	05 Yrs.
10	The role of RNA-induced silencing complex in the development and progression of Nonalcoholic steatohepatitis and Hepatocellular Carcinoma: The molecular intervention using natural compounds.	Dr.Prasanna Kumar S Asso. Professor Dept of Biochemistry JSS MC, Mysuru	DBT	BT/RLF/Re-entry/19/2017 Dt: 17.01.2019	1,13,60,000.00	05 Yrs.
11	Molecular mechanisms underlying high fat diet (HFD)-induced hepatocellular carcinoma (HCC): specific role of TNF- $\alpha$ converting enzyme (TACE)) and apoptosis antagonizing transcription factor (AATF)	Dr.Divya Prasanna Kumar Asst. professor Dept. of Biochemistry JSSMC, Mysuru	DBT	BT/RLF/Re-entry/58/2017 Dt: 15.02.2019	1,13,60,000.00	05 Yrs.
12	Evaluation of Fluorescein diacetate (FDA) sputum-smear staining in comparison with culture for assessing microbiological conversion during follow-up of pulmonary DR-TB patients in Karnataka, India	Dr.Teashree.A. Professor Dept. of Microbiology JSSMC, Mysuru	RNTCP	No:LWSTC/RNTCP/PPM/01/2 019-20 dated:02.04.2019	1,26,000.00	2 Years



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13	Targeting key signaling cascades using D-Formin (A combination of Vitamin-D and Metformin) for inhibiting carcinomas of breast in vitro and in vivo	Dr.MVSST Subbarao Professor Dept. of Biochemistry JSS MC Mysuru	DBT	BT/PR29598/PFN/20/1392/ 2018 Dt: 05.03.2019	49,69,600.00	03 Yrs.
14	Oxidized phospholipids and Lipoprotein(a) as a predictor of severity of coronary artery disease in diabetic patients	Ms.Kavya Sugur SRF Dept. of Biochemistry JSS MC, Mysuru	ICMR	5/3/8/23/ITR-F/2019-ITR DATED: 26.03.2019	5,07,200.00	03 Yrs.
15	Development of Electro Thrombogam(ETG) a Point of Care Electronic Device to Assess the Blood Coagulation Status	Dr.Srinivasa Murthy Professor Dept. of Peadiatrics JSS MC Mysuru	DST	DST/BDTD/EAG/2018 Dt:02.01.2019	27,00,000.00	2 Yrs
16	Spatio-Temporal Analysis of Tuberculosis in Mysuru, District: An Approach to detect areas of Zero incidence	Dr.Madhu B Asso. Professor Dept. of Community Medicine JSS MC, Mysuru	RNTCP	LWSTC/RNTCP/PPM/23/201 8-19 Dt: 11.02.2019	1,85,000.00	2 Yrs
17	Chronic Respiratory disease Innovation and Solution Program (CRISP)	Dr.MVSST Subba Rao Professor Dept. of Biochemistry JSS MC, Mysuru	CSIR IICB	Memorandum of Understanding (MOU) 31.03.2019	7,32,792.00	2 Yrs
18	Elucidation of Proteasome Dysfunction and Endoplasmic Reticulum Stress In The Pathogenesis Of Lung Injury Exposed To Urban Air Pollutants	Mr.Sumit Kuamr Dey Ph.D Research Scholar Dept. of Biochemistry JSS MC, Mysuru	ICMR	Through mail Dt:02.05.2019 3/1/2/4/Env/2019-NCD-I Dt:22.08.2019	2,53,600.00	02 Yrs.
19	Comparative Assessment of Phenolic Compounds, Extracted From Millets, For Inhibiting the Growth of Colorectal and Breast Carcinomas	Mr.Mahadevaswamy K G Ph.D Research Scholar Dept. of Biochemistry JSS MC, Mysuru	ICMR	Through mail Dt:07.05.2019 Order No. 3/2/2/105/2019/NCD-III Dated:17.07.2019	8,54,874.00	03 Yrs.

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20	Upregulation of hydroxy-prostaglandin dehydrogenase (HPGD) using hydroxy - Chloroquine as a novel therapeutic strategy in cervical carcinoma	Dr.Suma M N Vice - Principal & Professor & Head Dept. of Biochemistry JSS MC, Mysuru	ICMR	54/06/2019-HUM/BMS Dt:06.09.2019	22,93,316.00	03 Yrs.
21	Improving the capacity of Health system and community for sickle cell diseases screening and management an intervention study	Dr. Deepa Bhat Asso. Professor Dept. of Anatomy JSS MC, Mysuru	ICMR	NTF/SCD/2019/HSR/04 Dt:11.07.2019	53,42,986.00	02 Yrs. 09 Months
22	National Registry for rare and other inherited disorders (NRROID)	Dr.Akila Prashant Professor Dept. of Biochemistry JSS MC, Mysuru	ICMR	5/7/1571/2016-CH Dt:22.10.2019	2,44,250.00	05 Yrs
23	A Phase 2/3, observer-blind, Randomized, controlled study to determine the safety and immunogenicity of COVISHIELD (COVID-19 vaccine) in Healthy Indian Adults	Dr. Praveen Kulkarni Asso. Professor Dept of Comm. Medicine JSSMC, Mysuru	ICMR (NIRT)	No.DIR/NIRT/Covid-19/JSS/2020-21/1481 Dated:04.09.2020	60,16,387.00	08 months
24	Analysis of Resident Memory T(TRM) cells and IL15 levels in vitiliginous patches as predictors of response to treatment and prognosis	Dr.Vinutha Rangappa Asst Professor Dept of Dermatology	IADVL	Through mail 14.09.2020	4,42,480.00	02 Yrs
25	Study to evaluate the effectiveness of BCG vaccine in reducing Morbidity and Mortality in Elderly individuals in COVID-19 Hotspots in India	Dr. Pratibha Pereira Professor & HOD Dept of Geriatrics	ICMR	DIR/NIRT/BCG/JSS/2020-21 Dated:22.09.2020	69,22,270.00	09 months
26	Apoptosis Antagonizing Transcription Factor (AATF): A Novel Oncogenic Driver in Hepatocellular Carcinoma	Dr.Divya Prasanna Kumar Assistant Professor Dept of Biochemistry JSS Medical College, Mysuru	ICMR	5/3/8/55/2020-ITR Dated:17.11.2020	9,87,770.00	03 Yrs




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27	Longitudinal effects of Air Pollution Exposures on Lung growth and development of biomarker of lung function deficit in Urban Children	Dr.P A Mahesh, Professor, Dept of Respiratory Medicine, JSS Medical College, Mysuru	DBT	Order No. IA/TSG/19/1/600026, Dated: 25.09.2020	9,98,44,800.00	5 Yrs
28	Co-targeting key oncogenic signalling cascades regulating breast cancer development using vitamin D and anti diabetic agents	Ms.Chaithanya G B SRF Dept of biochemistry	ICMR	3/2/2/32/2020-NCD-III dated:07.12.2020	15,21,600.00	3 Yrs
29	Oral bacterial microbiome analysis by PCR and salivary Interleukin 17 estimation in Oral Lichen Planus (OLP) of the IADVL	Dr Ashwini Pk Associate Professor Dept of Dermatology	IADVL	Through mail 18.01.2021	4,50,000.00	2 Yrs
30	Influencers in adopting terminal methods (both tubectomy and vasectomy) of contraception among target couples of urban and rural areas	Ms. Nivedya Krishnan C MBBS Student	ICMR	Jun-20	20,000.00	06 months
31	Relationship between frailty glycemic control and Nutritional status among elderly with Diabetes Mellitus residing in an Urban Community of Mysuru.	Ms.PoorvikaK.Babu MBBS Student	ICMR	Jun-20	20,000.00	06 months
32	Assessment of indoor air quality and its implication on health in an urban slum of Mysuru City, Karnataka.	Mr.SamyakTushar Shah MBBS Student	ICMR	Jun-20	20,000.00	06 months
33	A study on risk factors and adverse drug reactions among drug sensitive and drug resistant tuberculosis patients.	Ms.ShantviKumari MBBS Student	ICMR	Jun-20	20,000.00	06 months

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34	A comparative study on cognition and its association with perceived stress, body mass index and lung functions in medical students with and without physical activity	Mr. Ankireddy Ritish Reddy MBBS Student	ICMR	Jun-20	20,000.00	06 months
35	Assessment of fungiform papillae among geriatrics using digital camera	Ms A AnushkaRao MBBS Student	ICMR	Jun-20	20,000.00	06 months
36	Prevalence of Carbapenem resistance among enterobacteriaceae and the number of past hospital admissions, age and diabetic status	Mr. RohanKarkara MBBS Student	ICMR	Jun-20	20,000.00	06 months
37	Effectiveness and challenges perceived by mother ancommunity health worker during the home based new born care visits	Ms. Riya Jain MBBS Student	ICMR	Jun-20	20,000.00	06 months
38	Evaluation of visual communication board among communication compromised patients in intensive care units of a tertiary care hospital	Ms. Rudrani Mukharjee MBBS Student	ICMR	Jun-20	20,000.00	06 months
39	Drug utilization and prescribing pattern of antipsyhotic and anti dementia drugs in geriatric patients	Ms.ReetuArora MBBS Student	ICMR	Jun-20	20,000.00	06 months
40	A cross sectional study evaluating relationship between nicotine use, body mass index and impaired sleep with cognitive functions in eldely population in a tertiary care facility	Mr.Mahnmohan YashMahajan MBBS Student	ICMR	Jun-20	20,000.00	06 months
41	A study to assess knowledge, attitude and practice of insulin therapy in patients with Diabetes Mellitus	Mr. Mehak Gera MBBS Student	ICMR	Jun-20	20,000.00	06 months



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42	Effect of Raja Yoga on quality of sleep and pain symptoms in inpatients	Mr.Krishna MBBS Student	ICMR	Jun-20	20,000.00	06 months
43	Effects of obesity indices on severity of menopausal symptoms in urban and rural women	Mr.Pranav B Kashyap MBBS Student	ICMR	Jun-20	20,000.00	06 months
44	A multimodal interventional strategy to increase the hand hygiene compliance in intensive care unit of a tertiary care hospital in South India	Mr.Shashwath G MBBS Student	ICMR	Jun-20	20,000.00	06 months
45	Assessment of Calcium and Vitamin D levels in thalassemic children in a tertiary care unit	Ms.ShikhaAgarwal MBBS Student	ICMR	Jun-20	20,000.00	06 months
46	Cytological diagnostics and prognostics methods using immunocyto chemistry (estrogen receptor marker) for surgical management of breast cancer	Mr. Rohith R Nair MBBS Student	ICMR	Jun-20	20,000.00	06 months

  
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