



# Kristu Jayanti College

**AUTONOMOUS** Bengaluru  
Reaccredited A++ Grade by NAAC | Affiliated to Bengaluru North University

## Department of Life Sciences

Academic Year 2024-2025

### Details of Research Projects

#### I. Details of Sponsored Research Projects (Completed/Ongoing/Applied)

Total : 09  
Completed : 04  
Ongoing : 04  
Applied : 01

S. No.	Title	Name of Investigators	Funding agency	Duration	Amount sanctioned with date	Status
1.	Bacteriocin - Nanoconjugate: Active Antimicrobial Packaging Material for Food Industry	Dr. Sangeetha Menon, Dr. Arpita Mishra	Karnataka State Council for Science and Technology	19/04//2024 - 18/07/2024	Rs. 6500/-, 19 <sup>th</sup> April 2024	Completed
2.	Endophytic Fungi from Mangroves: A road Map for Commercialization to Compact the Disease in Pearl Millet	Dr C M Reena Josephine and Dr P Roopa	Karnataka State Council for Science and Technology	19/04//2024 - 18/07/2024	Rs.7000/-, 19 <sup>th</sup> April 2024	Completed
3.	Exploration of Potential Endophytic Actinomycetes Derived from Mangrove Ecosystem and Harnessing the Efficacy as Plant Growth Promoting and Bio-Control Agent to Control Disease in Pearl Millet.	Dr C M Reena Josephine and Dr. Arpita Mishra	Karnataka State Council for Science and Technology	19/04//2024 - 18/07/2024	Rs.7000/-, 19 <sup>th</sup> April 2024	Completed
4.	Unveiling the therapeutical potential of <i>Coleus aromaticus</i> : medicinal insights and synergistic products through advanced encapsulation	Dr. Shinomol George K	Karnataka State Council for Science and Technology	19/04//2024 - 18/07/2024	Rs.7000/-, 19 <sup>th</sup> April 2024	Completed
5.	Valorization of Agro Wastes Through the Cultivation and Evaluation of Neurotrophic Properties of Lion's Mane Mushroom ( <i>Hericium Erinaceus</i> ). Fostering Circular Economy	Dr. Sangeetha Menon, Dr. Arpita Mishra	Karnataka State Council for Science and Technology	14/03//2025 - 18/07/2025	Rs. 4500/-, 14 <sup>th</sup> March 2025	Ongoing

S. No.	Title	Name of Investigators	Funding agency	Duration	Amount sanctioned with date	Status
6.	Phytochemical Enhanced Cellulose Membrane for Effective Heavy Metal Removal from Water	Dr. Shinomol George K	Karnataka State Council for Science and Technology	14/03//2025 - 18/07/2025	Rs. 6000/-, 14 <sup>th</sup> March 2025	Ongoing
7.	Unveiling the Whole Genome of Endophytic Actinomycetes: Dual Role in Plant Growth Promotion and Biocontrol of Maize Pathogens	Dr. C.M. Reena Josephine, Dr. P. Roopa	Karnataka State Council for Science and Technology	14/03//2025 - 18/07/2025	Rs. 5000/-, 14 <sup>th</sup> March 2025	Ongoing
8.	Exploring Potential Postbiotic Compounds Extracted from Probiotics to Develop Dietary Supplements Effective in Enhancing Health and Wellness	Dr. C.M. Reena Josephine, Dr. P. Roopa	Karnataka State Council for Science and Technology	14/03//2025 - 18/07/2025	Rs. 6000/-, 14 <sup>th</sup> March 2025	Ongoing
9.	Investigation of poly (lactic-co-glycolic acid) – tethered Zinc oxide nanocomposite biosynthesized with using Curcuma caesia for antiproliferative effect against cervical cancer	Dr. Nathiya T, Dr.Sonia Angeline	SERB Women Scientist Grant, Department of Science and Technology (DST)-Science and Engineering Research Board (SERB)	-	Rs.3000000/-	Applied

## II. Details of Institutional Research Projects (Completed/Ongoing/Applied)

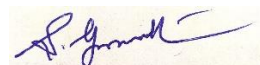
Total : 09  
 Completed : 01  
 Ongoing : 04  
 Applied : 04

S. No.	Title	Name of Investigators	Name of the scheme	Duration	Amount sanctioned	Status	Type
1.	Waste Recycling for Mushroom Cultivation to Promote Circular Economy and Revenue Generation	Dr. Sangeetha Menon (PI), Dr.Challaraaj Emmanuel E S (Co-PI)	Bodhi Niketan Trust-Shodh Pravartan Research Grant-Minor Research Project	04/12/2023 - 04/12/2024	Rs. 90,000/-	Ongoing	Research Project

S. No.	Title	Name of Investigator s	Name of the scheme	Duration	Amount sanctioned	Status	Type
2.	Isolation, Purification and characterization of novel protease inhibitor from plant samples and its application as potential fungicide against collar rot and yellow mold disease of groundnut	Dr. Arpita Mishra (PI), Lt. Kushbu R (Co-PI)	Bodhi Niketan Trust-Shodh Pravartan Research Grant-Minor Research Project	04/12/2023 - 04/12/2024	Rs.1,00,000/-	Ongoing	Research Project
3.	Antimicrobial Peptides from agrowastes as a Novel Tool in Combating Plant Pathogens in Eco-Agriculture	Dr. Roopa Prasad (PI), Dr. CM Reena Josephine (Co-PI)	Bodhi Niketan Trust-Shodh Pravartan Research Grant-Minor Research Project	04/12/2023 - 04/06/2025	Rs.1,50,000/-	Ongoing	Research Project
4.	Synthesis and Characterization of Nanoparticles from Mimosa pudica, and Evaluation of Angiotensin-Converting Enzyme Activity in Mimosa pudica, and Evaluation of Angiotensin-Converting Enzyme Activity in Adult Zebrafish	Dr. Saraswathi (PI), Dr. Arun Kumar S (Co-PI)	Bodhi Niketan Trust-Shodh Pravartan Research Grant-Minor Research Project	04/12/2023 - 04/06/2025	Rs.1,50,000/-	Ongoing	Research Project
5.	Impact of JPMR on the anxiety and perceived stress of female Domestic workers in Bangalore urban districts	Dr. Sangeetha Menon (PI), Dr. Rema M K (Co-PI)	Bodhi Niketan Trust-Shodh Pravartan Research Grant-Collaborative Community Project	04/12/2023 - 04/12/2024	Rs.20,000/-	Completed	Community Research project

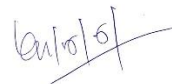
S. No.	Title	Name of Investigator s	Name of the scheme	Duration	Amount sanctioned	Status	Type
6.	Proteome Exploration Facilitated Druggable Targets Mining in Pectobacterium Carotovorum and Finding Inhibitors Through Bioinformatics Approach	Dr. Gurunathan S (PI), Dr. Frankline Noah K (Co-PI)	Bodhi Niketan Trust- Shodh Pravartan Research Grant-Minor Research Project	October 2024	Rs.2,00,000/-	Applied	Research Project
7.	Production of Liquid Fuel Using Food Waste and Its Characterisation.	Dr. Esther Shoba R (PI), Dr. Sonia Angeline M (Co-PI)	Bodhi Niketan Trust- Shodh Pravartan Research Grant-Minor Research Project	October 2024	Rs.2,00,000/-	Applied	Research Project
8.	Synthesis and applications of nanoparticles from green plants and its efficacy in water purification	Dr. Deepak P	Bodhi Niketan Trust- Shodh Pravartan Research Grant-Minor Research Project	October 2024	Rs.2,00,000/-	Applied	Research Project
9.	The effect of Justicia Adatoda on the interaction of ACE2 and SARS COV2 spike proteins - An invitro study	Dr. Austin Richard S (PI), Dr. Prasanna Kumar (Co-PI)	Bodhi Niketan Trust- Shodh Pravartan Research Grant-Minor Research Project	October 2024	Rs.85,000/-	Applied	Research Project

**Prepared by**



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**Verified by**



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