

**Publications / Patents from the Research Projects Under**  
**Seed Money Grant Scheme**  
**Year 2020-2021**

<b>Sl. No</b>	<b>Project Name</b>	<b>Name of the Principal Investigator ( PI )</b>	<b>Title of the Paper</b>	<b>Details of Journal / Conference</b>
1	Genetic Investigation of bla NDM variants among multidrug resistant Escherichia coli isolates	Dr. Susweta Das	Essential oil and phytoconstituent (Linalool) from Homalomena aromatica Schott. rhizomes exhibit antibacterial and synergistic effects with beta-lactam antibiotics against Carbapenem-resistant Enterobacteriaceae (CRE) and Methicillin Resistant S. aureus (MRSA) pathogens	Industrial Crops and Products, Volume 198, August 2023, 116666, DOI: 10.1016/j.indcrop.2023.116666
2	Genetic Investigation of bla NDM variants among multidrug resistant Escherichia coli isolates	Dr. Susweta Das	Identification of a potential inhibitor for New Delhi metallo- $\beta$ -lactamase 1 (NDM-1) from FDA approved chemical library- a drug repurposing approach to combat carbapenem resistance	Journal of Biomolecular Structure and Dynamics, April 2022, DOI: 10.1080/07391102.2022.2123402
3	Genetic Investigation of bla NDM variants among multidrug resistant Escherichia coli isolates	Dr. Susweta Das	Potential biocontrol agents and treatment options for bacterial pathogens	Clinical Microbiology Newsletter, Volume 44, Issue 5, March 2022, Pages 41-50, DOI: 10.1016/j.clinmicnews.2022.02.002
4	Genetic Investigation of bla NDM variants among multidrug resistant Escherichia coli isolates	Dr. Susweta Das	Isolation and Identification of a bacteriophage against carbapenem	International e symposium – IAVPHS 2021, May 2021

			resistant NDM – producing Escherichia coli isolates	
5	Genetic Investigation of bla NDM variants among multidrug resistant Escherichia coli isolates	Dr. Susweta Das	Phytocompound (Linalool) restores the activity of meropenem antibiotic against carbapenemases producing bacterial pathogens – a plant based antibiotic adjuvant to unlock carbapenem resistance	62 <sup>nd</sup> International Conference of Association of Microbiologist of India (AMI) – Microbes and Society hosted by university of Mysuru September 2022
6	Finite Element Wear Behaviour Modelling of Al-Alloy Reinforced with ZrSiO <sub>4</sub> and Carbon Hybrid Metal Matrix Composites (HMMCs)	Prof. Ravitej Y. P	Effect of Reinforcement and Copper Chill on LM13/ZrSiO <sub>4</sub> /C Hybrid Metal Matrix Composites (HMMCS)—An Experimental and Statistical Analysis	An Experimental and Statistical Analysis[J]. China's Refractories, 2021, Volume 30 Issue 4 Page No 12-18 DOI: 10.19691/j.cnki.1004-4493.2021.04.003
7	Finite Element Wear Behaviour Modelling of Al-Alloy Reinforced with ZrSiO <sub>4</sub> and Carbon Hybrid Metal Matrix Composites (HMMCs)	Prof. Ravitej Y. P	Dry Sliding Friction and Wear Behavior of LM13/Zircon/Carbon (HMMC's): An Experimental, Statistical and Artificial Neural Network Approach	Tribology in Industry; Volume 44, Issue 3, (2022): Page No 374-393. DOI:10.24874/ti.1223.11.21.03
8	Finite Element Wear Behaviour Modelling of Al-Alloy Reinforced with ZrSiO <sub>4</sub> and Carbon Hybrid Metal Matrix Composites (HMMCs)	Prof. Ravitej Y. P	Fabrication, micro structural and mechanical characterization of Zircon Particles (ZrSiO <sub>4</sub> ) reinforced Aluminum alloy (MMCs)	Indian Journal of Engineering & Materials Sciences Volume 28, December 2021, Page No 549-553, DOI:
9	Finite Element Wear Behaviour Modelling of Al-Alloy Reinforced with ZrSiO <sub>4</sub> and Carbon Hybrid Metal Matrix Composites (HMMCs)	Prof. Ravitej Y. P	Evaluation of copper chill on tribological behaviour of LM13/ZrSiO <sub>4</sub> /C hybrid metal matrix composites	Journal of Mines, Metals and Fuels, Volume 69, Issue 12A, Page No 142-146. DOI: 10.18311/jmmf/2021/30143
10	Identification, Characterization Of Chemical constituents present in extract of Neurocalyx Calcinus for antioxidant activity with wound healing	Prof. Anita A	A Comprehensive Review on The Wound Healing Property of Neurocalyx Calcinus Extract	Eur. Chem. Bull. 2023, Volume 12 (Special Issue 1), Page No 1959-1967

11	Synthesis and Biological Activities of Heterocycle Linked Melamine Piperazine Derivatives	Dr. V. Srinivasa Murthy	Design, Synthesis and Docking studies of Novel 4-Aminophenol-1,2,4-Oxadiazole hybrids as apoptosis inducers against Triple Negative Breast Cancer Cells Targeting MAP Kinase	Journal of Biomolecular Structure & Dynamics, June 2023
12	Isolation and Bioengineering of Gamma-cgtase for production of industrially important Gamma Cyclodextrins	Dr. Aneesa Fasim	Isolation, Identification and Optimization of Alkalophilic $\Gamma$ -Cgtase For the Production of Industrially Important $\Gamma$ -Cyclodextrins	National Conference on "Contextual Approaches in Applied Microbiology" June 8th and 9th 2023