


<b>Faculty Name</b>	Shobha G	
<b>Designation</b>	Assistant Professor	
<b>Educational Qualification</b>	M.Sc, M.Phil, (Ph.D)	
<b>Experience</b>	10.5 years	
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**Area of Interest:**

Enzyme technology

Agrinotechnology

**Membership in Professional Bodies:**

**NIL**

**Awards/Recognitions/achievements:**

1. Best project award for Bioplastic Extraction from Waste Grease Produced in Industries Using as Glycerol as a Substrate from Karnataka State council for Science and Technology in the year 2019

**Grants Obtained:**

1. 42S\_B\_BE\_003 Bioplastic Extraction from Waste Grease Produced In Industries Using As Glycerol As A Substrate, funded by Karnataka State council for Science and Technology KSCST, student project in the year 2019.
2. 41S\_B\_BE\_076 - Design and Lab scale ultrasound batch reactor for the production of biodiesel from the slaughter waste, funded by Karnataka State council for Science and Technology KSCST, student project in the year 2018.
3. 39S\_B\_BE\_050 - Simarouba Oil cake: The solid low value substrate to produce lipase with potential application in Biodiesel extraction and to assay the toxicity of phytochemical in inhibition of lipase activity, funded by Karnataka State council for Science and Technology KSCST, student project in the year 2016.
4. 38S\_B\_BE\_038 - The potential utilization of processed areca catechu water an agrowaste for bioethanol production by fermentation process, funded by Karnataka State council for Science and Technology KSCST, student project in the year 2015.
5. 37S\_B\_BE\_022 – Biological conversion of poultry waste to biodiesel using bacteria isolated lipase for transesterification, funded by Karnataka State council for Science and Technology KSCST, student project in the year 2014.

## **Publications: International/National Journals**

1. In Vitro Cytotoxicity Study of Green Synthesized Copper Nanoparticles, Research Journal of Biotechnology, 2019, Vol 14 (8):105-111
2. Nano-cuprous oxide enhances seed germination and seedling growth in *Lycopersicon esculentum* plants, Journal of Drug Delivery & Therapeutics, 2019, 9(2):296-302
3. Enzyme assisted bioactive extraction from *Flacourtia montana* and investigation of its in-vitro antioxidant and anti-diabetic activity, International Journal of Pharmacy and Biological Sciences, 2018, 8 (1):384-390
4. Biodiesel Production from Simarouba Deoiled-Cake By Transesterification And Phytochemical Analysis, International Journal Of Pharmacy And Biological Sciences, 2017,7 (3):36-42
5. Plant Pathovars Inhibition from Copper Based Nanoparticles Synthesized from Leaf Extract Of Flacourtia Montana, Journal Of Bionanoscience, 2017, 11(12):1–8, 2017
6. Production of bioethanol from agrowaste processed Areca catechu Water. International Journal of Pharma and bioscience, 2016, 7(2):530-536
7. Power Generation from Kitchen and Industrial Waste Water using Microbial Fuel Cells (MFCs) with Graphite Cathode and Anode.s Journal of Alternate Energy Sources and Technologies, 2016,7(1):14-22
8. Isolation, characterization and optimization of process variables for partially purified immobilized  $\alpha$  -amylase isolated from Indian chicken feather, Int J Pharm Bio Sci, 2015, 6(2): (B) 1165 - 1171
9. Study on induce defense related enzymes in *Capsicum annuum* infected with *Xanthomonas vesicatoria*, International journal of Advanced research, 2014, 2(10):720-724
10. Biological transesterification of poultry waste to biodiesel using bacteria isolated from chicken feather, International journal of recent scientific research, 2014, 5(9):1729-1732
11. Biological Synthesis of Copper Nanoparticles and its impact - a Review, *International Journal of Pharmaceutical Science Invention*, 2014, 3(8):28-38
12. Phytochemical profile, Antibacterial and Antidiabetic effect of crude aqueous leaf extract of *Datura stramonium*, Pharmacophore, 2014, 5(2):273-278
13. A study on caffeine effect of tea on health, International Journal of Advanced Biotechnology and Research, 2014, 15(3):59-363
14. Study on advanced application of mint oil, Journal of Advanced Scientific Research, 2014, 5(4): 01-03
15. Estimation of crude caffeine in different types of tea, J Adv Sci Res, 2014, 5(4): 39-42

16. Antagonistic effect of the newly isolated PGPR *Bacillus* spp on *Fusarium oxysporum*, International Journal of Applied Science and Engineering, 2012, 1(3): 463-474

### **International/National Conferences**

1. **Oral Presentation** on “**Genotoxicity of Cuprous oxide nanoparticle on *Lycopersicon esculentum***” at National Seminar on New trends in biotechnology, 14 th conference of Society of Cytologist and geeticists and Bio entrepreneurship Summit held during 6<sup>th</sup> - 8<sup>th</sup> March 2019 at Bapuji Institute of Engineering and Technology, Davangere College.
2. **Oral Presentation** on “**Rapid Biosynthesis of Copper nanoparticle and their effect on growth of *Lycopersicon esculentum***” at National conference on “Smart Synergy”- Emerging trends in application of Smart materials held during 14<sup>th</sup> February 2019 at Maharani Lakshmi Ammanni College for Women
3. Presented a poster on , “**A collaborative approach of waste fruit peels and activated carbon developed from the seed shell of *Tamarindus Indica* for the treatment of heavy metals in the waste water**” in Environment, Health and policy Nexus held on 27-28 July 2017 at Jagadguru Sri Shivarathreshwara University, Mysuru
4. Presented a paper on, “**A collaborative approach of waste fruit peels and activated carbon developed from the seed shell of *Tamarindus Indica* for the treatment of heavy metals in the waste water**” in National conference on Sustainable Engineering and Management held on 26-27 May 2017 at The Oxford college of engineering, Bengaluru.
5. Presented poster on “**Effect of synthesized copper based nanoparticles using *Flacourtia montana* on antibacterial activity and growth of *Lycopersicon esculentum***” in International conference on science and technology: Future challenges and solution – 2016” held during 8-9<sup>th</sup> August 2016 at Vijnana Bhavan, University of Mysuru.
6. Presented poster on “**Effect of green synthesied nanoparticle on *Flacourtia montana* on Antioxidant defence related enzymes in *Lycopersicon esculentum***” International conference on science and technology: Future challenges and solution.
7. Participated and presented a paper on “**Phytochemical profile, Antibacterial and Antidiabetic effect of crude aqueous leaf extrct of *Datura stramonium***”**“In international conference on convergence of science, engineering and management in education and research – A gobal perspective, held by Centers for Post graduate studies Dayananda Sagar institutions, Bengaluru from 26-27<sup>th</sup> Sept 2013**

8. Participated in the National Seminar Sponsored by Indian Council of Medical Research on Nanomedicine – The concepts and Therapeutic applications on 29<sup>th</sup> November 2013 by Dayananda Sagar College of Pharmacy.