

SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU-57

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi) #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru– 560 057

DEPARTMENT OF BIOTECHNOLOGY

FACULTY PROFILE					
Name of the faculty		Dr. SHOBHA G			
Designation		Assistant professor			
Contact Number		9964591024		- 2	ELAN
Email ID		shobhag@sapthagiri.edu.in			
EDUCATIONAL QUALIFICAT	ION				
Degree		pecialization	Universi	-	Year of Passing
Ph.D	Biot	echnology	VTU, Beng		2020
M.Phil	Biot	echnology	Jain colle Bengalu		
M.Sc Bi		oscience	University of M Hemagango Hassan,	•	2006
WORK EXPERIENCE					
Teaching		Research		Industry	
13		05		-	
PUBLICATIONS					
National/International		National/International		Books	
Journals		Conferences		Authored/Edited	
17		00			-
Area of Interest					
Enzyme technology			Agrinanotechnology		
Biochemistry					
MEMBERSHIP IN PROFESSIONAL BODIES/UNIVERSITY BODIES/ORGANIZATION					
Society for Biotechnologist					

PUBLICATIONS NATIONAL/INTERNATIONAL JOURNALS

SI.No	Year	Publications
1	2020	G. Shobha & K. S. Shashidhara & Chandrashekhar Naik, Cuprous Oxide Nanoparticles Induced Antioxidant Response and Genotoxicity in Lycopersicum esculentum, Oct 2020, BioNanoScience, pp 1- 12,https://doi.org/10.1007/s12668-020-00796-0
2	2020	Shobha G, Shashidhara KS, Chandrashekhar Naik, Effect of Green Synthesized Cuprous Oxide Nanoparticles on Agronomical Traits Of Tomato (<i>Lycopersiconesculentum</i>), Journal of Seybold Report, VOl 15(9),Sep 2020, pp 1792-1802, ISSN NO: 1533-9211
3	2019	In Vitro Cytotoxicity Study of Green Synthesized Copper Nanoparticles, Research Journal of Biotechnology, Vol. 14 (8) August (2019), 105-111.
4	2019	Nano-cuprous oxide enhances seed germination and seedling growth in Lycopersicum esculentum plants, Journal of Drug Delivery & Therapeutics, 9(2):296-302
5	2018	Enzyme assisted bioactive extraction from <i>Flacourtia montana</i> and investigation of its in-vitro antioxidant and anti-diabetic activity International Journal of Pharmacy and Biological Sciences ISSN: 2321-3272 (Print), ISSN: 2230-7605 (Online) IJPBS, Volume 8 (1), JAN-MAR- 2018, 384- 390.
6	2017	Biodiesel Production from Simarouba Deoiled-Cake By Transesterification And Phytochemical Analysis, International Journal Of Pharmacy And Biological Sciences, ISSN: 2321-3272 (Print), Issn: 2230-7605 (Online) IJPBS, Volume 7 (3), 36-42, 2017.
7	2017	Plant Pathovars Inhibition from Copper Based Nanoparticles Synthesized from Leaf Extract Of Flacourtia Montana, Journal Of Bionanoscience, Vol. 11(12), 1–8, 2017. Doi:10.1166/Jbns.2017.1481
8	2016	Production of bioethanol from agrowaste processed Areca catechu Water. International Journal of Pharma and bioscience, 7(2):530-536, 2016.
9	2016	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, 7(1):14-22, 2016.
10	2015	Isolation, characterization and optimization of process variables for partially purified immobilized α -amylase isolated from Indian chicken feather, Int J Pharm Bio Sci 2015 April; 6(2): (B) 1165 - 1171
11	2015	A review on various types of toxins, Pharmacophore, 2015, vol. 6 (4), 181- 188

12	2014	Study on induce defense related enzymes in <i>Capsicum annuum</i> infected with <i>Xanthomonas vesicatoria,</i> international journal of Advanced research,
		2014:2(10), 720-724
13	2014	Biological transesterification of poultry waste to biodiesel using bacteria isolated from chicken feather, international journal of recent scientific research, 2014:5(9), 1729-1732
14	2014	Biological Synthesis of Copper Nanoparticles and its impact - a Review, International Journal of Pharmaceutical Science Invention, 2014:3(8),28-38
15	2014	Phytochemical profile, Antibacterial and Antidiabetic effect of crude aqueous leaf extract of <i>Datura stramonium</i> , Pharmacophore, 2014:5(2), 273-278
16	2014	A study on caffeine effect of tea on health, International Journal of Advanced Biotechnology and Research, 2014: l5(3), 59-363
17	2014	Study on advanced application of mint oil, Journal of Advanced Scientific Research, 2014, 5(4), 01-03
18	2014	Estimation of crude caffeine in different types of tea, J Adv Sci Res, 2014, 5(4): 39-42
19	2012	"Antagonistic effect of the newly isolated PGPR <i>Bacillus</i> spp on <i>Fusarium oxysporum</i> " International Journal of Applied Science and Engineering, 2012:1(3), 463-474

NATIONAL /INTERNATIONAL CONFERENCES

		PAPER AND POSTER PRESENTATION			
1	2019	Oral Presentation on "Genotoxcity 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 th -8 th March 2019 at Bapuji Institute of Engineering and			
		Technology, Davangere College			
2	2019	Oral Presentation on "Rapid Biosynthesis of Copper			
		nanoparticle and their effect on growth of <i>Lycopersicon esculentum</i> "			
		at National conference on "Smart Synergy"- Emerging trends in			
		application of Smart materials held during 14th February 2019 at			
		Maharani Lakshmi Ammanni College for Women.			
3	2019	Oral Presentation on "Effect of Nano Cuprous Oxide particle on			
		Seed germination of Tomatoes (Lycopersicon esculentum)" at			
		National conference on Biochemistry- Transcending and			
		Intergrating Life Sciences (NCBTIL) held during 17-18 th Jan 2019 at			

		Kristu Jayanti College, Bengaluru
4	2017	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 Shivarathreeshwara University,
		Mysuru
5	2017	Presented a paper on , "A collaborative approach of waste fruit
		peels and activated carbon developed from the seed shell of
		<i>Tamarindus Indica</i> 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.
6	2016	Presented poster on "Effect of synthesized copper based
		nanoparticles using <i>Flacourtia montana</i> on antibacterial activity and
		growth of Lycopersicon esculentum" in International conference on
		science and technology: Future challenges and solution – 2016"
		held during 8-9 th August 2016 at Vijnana Bhavan, University of
		Mysuru. Pp 100. 2016. Shobha G, Shasidhara KS,
		Vishwaprakash Mahadimane P, Ananda S
7	2016	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.Pp 101. 2016.
		Madhuribhat S, Rakshitha S, Varsha Prakash, Shobha G, Ananda S
8	2013	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 th Sept 2013
9	2013	Participated in the National Seminar Sponsored by Indian Council of
		Medical Research on Nanomedicine – The concepts and Therapeutic
		applications on 29th November 2013 by Dayananda Sagar College of
		Pharmacy.
10	2012	Participated and presented a poster on "Characterization of newly
		isolated Bacillusspp and their effect on Fusariumoxysporum" in the
		99 th Indian Science National Congress at KIIT University,

		Bhubaneswar, Odisha (3 -7/1/2012).		
11	2006	Participated and presented a paper on "Involment of peroxidase		
		enzyme in Bacterial Spot pathogenis of tomato", in National		
		symposium on "Biotechnological Methods for crop & diseases		
		management" organized by Department of Plant Pathology, Faculty		
		of Agriculture, Annamalai University, Tamilnad during 3-4 th		
		March 2006		

FACULTY DEVELOPMENT PROGRAMME PARTICIPATED

- Participated in one-week faculty development program on "Bimolecular Separation techniques", conducted at Department of Biotechnology, BMS college of Engineering from 27th Feb 3rd March, 2017
- Participated in one day "Faculty development program" conducted in Sapthagiri college on 22nd of Jan 2015
- Participated in the FDP on "DNA finger printing technology, Molecular Markers and bioinformatics" organized by Department of Biological Sciences, Dayananda Sagar institutions, Bengaluru and Karnataka Science and Technology Academy, Department of Science and technology, Government of Karnataka on 28th Feb – 1st March 2014
- Participated in the FDP on "Pesticide residue analysis and HPLC" organized by Department of Biotechnology, PES institute of technology, Bengaluru sponsored by TEQIP from 14th Feb – 16th March 2013

WORKSHOP ATTENDED

- 1. Participated in one day workshop on "Wine processing and Wine Tasting" on 2016, conducted at Heritage Grape Winery, Madhur.
- Participated in the three-day Workshop on "Research Methodologies and Latex" organized by VTU e- learning center, Mysuru from 29th to 31st December 2014 at Vidya Vikas Institute of Engineering and Technology, Mysuru
- Participated in "Advanced Mission 10X" conducted in Sapthagiri college of engineering from 30th Jan to 3rd Feb 2012
- 4. Participated in the "Skill development programme" organized by Jain university at Center for

research in social sciences and education held on 23-24th September 2011

AWARDS/RECOGNITION/ACHIEVEMENT/OTHERS

- **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
- Best 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 14th February 2019 at Maharani Lakshmi Ammanni College for Women.
- Ph.D in Applied Science (Biotechnology)– "Rapid biosynthesis of copper nanoparticle and its effects on agronomical traits of *Lycopersicon esceltum" Under VTU awarded in 2020*

Projects Sanctioned

Sl.No	Project No	Project	Amount
1	KSCST -BF 2020	43S-BE-0378 Development of Bioplastic by cross linking of Agar and glycerol dervied from Biodisel	5,500
2	VGST-RGSF	Development of Ecofriendly Biopolymer by cross linking of	3 Lakh
	2019-2020	Agar and Glycerol derived from Biodiesel for domestic purpose	
3	KSCST -BF 2019	42S_B_BE_003 Bioplastic Extraction from Waste Grease Produced In Industries Using As Glycerol As A Substrate	5,000
4	KSCST -BF 2018	41S_B_BE_ 076 - Design and Lab scale ultrasound batch reactor for the production of biodiesel from the slaughter waste	8,500
5	KSCST - BF	39S_B_BE_050 - Simarouba Oil cake: The solid low value	13,000
	2016	substrate to produce lipase with potential application in Biodiesel extraction and to assay the toxicity of phytochemical in inhibition of lipase activity	
6	KSCST - BF	38S_B_BE_038 - The potential utilization of processed areca	7,000
	2015	catechu water an agrowaste for bioethanol production by fermentation process, from	
7	KSCST-BF 2014	37S_B_BE_022 – Biological conversion of poultry waste to biodiesel using bacteria isolated lipase for trans esterification	9,500