

#### Biodata

- Name: Dr. Sumanth B.
- Phone Number: 9980752561/8073563339
- Email ID:<u>simplesumanth007@gmail.com</u>
- Higher Education: Ph.D. in Microbiology
- Exams qualified:
  - Cleared the KSET examination in the year 2014.
  - Cleared ICAR- ASRB NET examination in the year 2018.

#### Experience

- **Research:** 07 years
- Teaching: 03 years
- Industry: NA

#### Achievements

- Recognitions and awards
- Best Paper Presentation:
- National conference on "Phytochemicals and Microbial bioactive compounds role in agriculture and human welfare" organized by Dept. of Microbiology and Biotechnology, Bangalore University and UGC.
- Presented a paper in the National Conference 'Bioactive compounds and therapeutics' organized by P.G. Department of life sciences, Oxford College of Science, and won first prize for the poster.
- Presented a paper in National Conference 'Emerging trends in chemistry with emphasis on Environment' organized by the Department of Chemistry and Biochemistry, Vijaya College, and **won first prize for the poster** entitled "Dimethyl Sulfoxide- a wonder drug".

• Presented a paper in the International conference "Nanobio, Biomimetic materials, and its applications" organized by Hindusthan College of arts and science, Coimbatore, and **won second prize in oral presentation** for the paper entitled "Green synthesis of ZnO nanoparticles using *C. roseus* and its applications".

Young achiever award	Institute of Scholars awarded the Young achiever award for the year 2020 for one of the publications in the year 2020
Young researcher award	RSquarel awarded the Young researcher category of RSquarel for the year 2021
Research excellence award	RSquarel awarded Research excellence category of RSquarel for the year 2021

- Project procured: NA
- Grants received: NA

## Teaching

## Subject handled

- General Microbiology
- Microbial diversity
- Biochemical and microbial techniques
- Eukaryotic microbiology
- Microbial Biotechnology
- Fermentation and Bioprocessing

### Publications

### • Papers

Author(s)	Title of Article	Name of	Vol. No	ISSN	Impact
		Journal	Year and		Factor
			Page		
			Number		
Sumanth, B., Lakshmeesha, T.	Mycogenic synthesis of				
R., Ansari, M. A., Alzohairy, M.	extracellular zinc oxide				
A., Udayashankar, A. C.,	nanoparticles from				
Shobha, B., & Almatroudi, A.	Xylaria acuta and its	Internationa			
	nanoantibiotic potential	l Journal of	15, 8519.	1178-	( <b>I.F</b>
		Nanomedici		2013	6.4)
		ne			
Shobha, B., Lakshmeesha, T. R.,	Mycosynthesis of ZnO	•			
Ansari, M. A., Almatroudi, A.,	nanoparticles using				
Alzohairy, M. A., Sumanth B.	Trichoderma spp.				
& Chowdappa, S.	isolated from	Journal of	6(3), 181.	2309-	(I.F
	rhizosphere soils and its	Fungi		608X	5.27)

	ann anaistia antileastarial			T	1
	synergistic antibacterial				
	effect against				
	Xanthomonas oryzae				
	PV. oryzae.				
Narasimhamurthy Konappa,	Green synthesis				
Shreya M. Joshi, Nirmaladevi	of Callicarpa				
Dhamodaran, Soumya	tomentosa routed zinc	Biomass		2190-	( <b>I.F</b>
Krishnamurthy, <b>Sumanth</b>	oxide nanoparticles and	Conversion	1-12	6823	4.13)
Basavaraju, Srinivas	their bactericidal action	and			
Chowdappa & Sudisha Jogaiah	against diverse	Biorefinery			
	phytopathogens				
Basavaraju Sumanth,	Diversity analysis and				
Balagangadharaswamy Shobha,	seasonal variation of				
Krishnappa Rahul, Marappa	endophytic fungi from	Internationa			
Rajganesh, Chowdappa	Santalum album.	l Journal of	6(2): 299-	2455-	
Srinivas.		Botany	305.	541X	
		Studies			
Balagangadharaswamy Shobha,	Isolation and				
Basavaraju Sumanth, and	Identification of				
Chowdappa Srinivas.	Xanthomonas oryzae	Internationa	12(1): 27–	0976-	
	<i>PV. oryzae</i> a Causative	l Journal of	31.	5670	
	Organism for Bacterial	Agricultural			
	Leaf Blight of Rice.	sciences.			
Balagangadharaswamy Shobha,	Biological control and				
Harish Bodaguru Maregowda,	plant growth promotion				
Sumanth Basavaraju,	using co-culture of	Internationa	6(1): 267-		
Thimappa Ramachandrappa	Trichoderma spp. and	l Journal of	271	2455-	
Lakshmeesha, Srinivas	its molecular docking	Botany	2/1	541X	
Chowdappa.	studies against bacterial	Studies			
Chio il duppui	leaf blight of rice	States			
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# • Book chapter

Title	Status of	Publisher	Place	Year of	ISBN
	Authorship*			Publication	
Fungal Biogenesis of NPs and Their Limitations. In Microbial Nanotechnology: Green Synthesis and Applications	First Author	Springer	Singapore	2021	978-981- 16-1922-9

## **Research:**

**Research area of Interest:** Microbiology (Fungal metabolites and Nanotechnology)

# **Project guided**

Title	UG/PG	Important Contribution/Research Achieved
Diversity and antimicrobial	PG	The endophytic load of each season in the western
potential of endophytic fungi	2016	Ghats of Karnataka (Bisle region) was known and
from medicinal plants of		effective isolates were screened for antimicrobial
Western Ghats of Karnataka		potential.
Fabrication and	PG	An eco-friendly and low-cost protocol for the
Characterization of Zinc	2017	biosynthesis of ZnO NPs using culture filtrate of
oxide nanoparticles isolated		Xylaria acuta and Nigrospora oryzae has been
from endophytic fungi		demonstrated in this study. The formation of ZnO
(Xylaria acuta and		NPs in extracellular secretion at room temperature
Nigrospora oryzae) and their		can be easily handled during downstream
bioactive potential		processing.
Extraction, Characterization,	PG	A large number of bioactive metabolites of
and Purification of Bioactive	2018	endophytic fungi have been extracted and
compound from Xylaria		characterized and these belong to diverse structural
acuta (Millingtonia hortensis		groups i.e. alkaloids, steroids, terpenoids, peptides,
L.)		flavonoids, quinones, phenols, etc. ellagic acid was
		the compound purified.
Fungal synthesis of Zinc	PG	The nanoparticle formed outside (extracellular) the
Oxide Nanoparticles using	2019	cell is devoid of unnecessary cellular components,
Xylaria acuta & its bioactive		they can be used directly in various biomedical
potential		applications.