

BIO-DATA

DR. M. SHAMINA

(ASSISTANT PROFESSOR, DEPARTMENT OF BOTANY, UNIVERSITY OF CALICUT)

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Academic Qualification (Undergraduate Onwards)

	Degree	Year	Subject	University/ institution
1	B.Sc. Botany	1998	Botany	Govt. Arts and Science college, University of calicut
2	M.Sc. plant Science	2000	Botany	Dept. of Botany, University of calicut
3	UGC-CSIR NET	2000		

Ph.D Title: Characterisation of the cyanobacteria *Scytonema cincinnatum* Thuret ex born et flah. (Scytonematacea) and *Westiellopsis prolifica* Janet (stigonemataceae) of acidic soils of Kerala.

Work experience

Sl No.	Position held	Name of Institute	From	To
1.	Guest lecturer	Govt. Arts and Science College, University of Calicut	2004	2009
2	Asst. Professor	PSMO College, University of Calicut	2010	2012
3	Asst. Professor	Dept. of Botany, University of Calicut	2012	Continue till this date

Professional Award

Best paper presentation award in the International conference on Algae, fungi and plants: systematic to applications Organised by CAS, Dept. of Botany, University of Calcutta and Botanical survey of India in 2020.

Total Publications: 27

Recent Publications:

1. Geethu V. & **M. Shamina** 2018. Antioxidant activity of cyanobacterium *Nostoc spongiformae* C. agardh ex born. & Flah . Journal of algal biomass utilization. Journal of algal biomass utilization 9(1): 26-30.
2. **M. Shamina** 2020. First Report on Cyanobacteria from Masirah Island, Sulthanate of Oman. International Journal on Algae, 2020, 22(4): 347–358.
3. Geethu V. & **M. Shamina**. 2021. Filamentous cyanobacteria from western ghats of north kerala, India. Bangladesh journal of plant taxonomy. 28(1): 83-95.
4. **M. Shamina**. 2021. Response of paddy field cyanobacterium *westiellopsis prolifica* Janet to the inorganic fertilizers. Current Botany. 12: 72-74.
5. Roona P.P. & M. Shamina. 2022. The cyanobacterial application as biofertilizer for sustainable paddy cultivation: An overview. Journal of plant science and research. 9(1):216-219
6. Geethu V. & **M. Shamina**. 2022. Cyanobacterial flora in the tropical forest of kerala state: Diversity of the Unicellular genera. Indian Hydrobiology. 21(1):1-8.
7. **M. Shamina**. 2022. A review on cyanobacterial biofertilizer for organic rice cultivation: technology improvement and future prospects. International Journal on Algae. 24(1): 89-103.
8. **M. Shamina**. 2022. Improved farming practices for the cultivation of spice, clove (*Syzygium aromaticum*) in India. Bharatiya Krishi Anusanthan patrika. 37(1):97-101
9. Archana Pachath and **M. Shamina**. 2022. A review on secondary metabolites in cyanobacteria as nutraceuticals. Egyptian journal of Phycology (Accepted)

Total Seminars/conferences attended : 46

Recent Seminars/ conferences attended:

1. **M. Shamina**. 2020. The cyanobacterial genus *Hapalosiphon Nageli* of Western Ghats of Kerala, India. In international conference on Algae, fungi and plants: systematic to applications. Org by CAS, Dept. of Botany, university of Calcutta and Botanical survey of India, p-231.
2. Neenu V. P. and **M. Shamina**. 2021. Response of the *Nostoc* species to the cadmium heavy metal stress. In 33rd Kerala Science Congress.
3. **M. Shamina**. 2020. Cyanobacterial biofertilizer for sustainable agriculture. In Science Day 2020. Org. Department of Plant Science, Central University of Kerala (**Invited talk**)
4. **M. Shamina**. 2021. Algae and cyanobacteria: An overview. In. International webinar on recent trends in biological sciences. Org. St. Josephs college, Devagiri (**Invited talk**)

5. Neenu V. P. and **M. Shamina**. 2021. Response of the *Nostoc* species to the cadmium heavy metal stress. In 33 rd kerala science Congress, P-28.
6. **M. Shamina**. 2021. Some unicellular cyanobacteria from tropical evergreen forest of Kerala. In. Proceedings of the International conference on applied sciences and advances in sustainable development. Org. by International multidisciplinary research foundation and Raja bahadur Venkata Rama Reddy Womens college, Hyderabad. p-60, ISBN-978-93-90146-30-7
7. V.P. Neenu & **M. Shamina** 2022. Response of the cyanobacterium *Nostoc* to lead heavy metal stress. In National Seminar Proceedings on Biodiversity conservation and ecosystem restoration. Org. The Biodiversity club, Department of Botany, Vimala college and Kerala state Biodiversity Board, Trivandrum, pp-247-253. ISBN- 978-81-950842-9-6.
8. Archana Pachath & **M. Shamina**. 2022. Germination pattern of Brassica seeds in response to the cyanobacterium *Nostoc muscorum*. In National Seminar Proceedings on Biodiversity conservation and ecosystem restoration. Org. The Biodiversity club, Department of Botany, Vimala college and Kerala state Biodiversity Board, Trivandrum, pp-69-72. ISBN- 978-81-950842-9-6.
9. Archana Pachath & **M. Shamina**. 2022. The effect of the cyanobacterium *Nostoc muscorum* on the HPLC profile of the methanol extract of *Brassica juncea* L. In International conference on advanced biology 2022. Org by Inter university centre for evolutionary and integrative biology (ICEIB), University of Kerala. P-73.

Research Projects

1. Systematic studies of freshwater and marine cyanobacteria of Kerala and their conservation (DST – SERB project)
2. Biodegradation of coir pith using fresh water cyanobacteria of Kerala, *Westiellopsis prolifica* Janet: assessment of cyanopith bio-fertilizer on the growth of some vegetables (UGC project)