

LARAMBHA COLLEGE, LARAMBHA

Faculty Profile

Name: Dr. JAYANTA KUMAR SAHU

Designation: Lecturer in Botany

Department: Botany

Areas of Interest/Specialization: Eco-Physiology and Molecular
Phylogeny of Cyanobacteria.

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1. Educational Qualifications:

SI No	Qualification	Institution	Year
1	Post doc	University of South Bohemia, Czech Republic	2010
2	Ph. D	Utkal University	1999
3	M.Phil.	Sambalpur University	1993
4	M.Sc.	G.M.(Auto)College, Sambalpur	1992

2. Teaching Experience (in year):

SI No.	Organization	Position Held	Experience (years)
1	Larambha College, Larambha	Lecturer	28.06.2025 - Till date
2	Mahatma Gandhi Higher Secondary School (erstwhile Junior College), Bhukta	Lecturer	06.10.2016 - 21.06.2025
3	Trust Fund Degree College, Bargarh	Lecturer	21.12.1998 - 05.10.2016

3. Research Publication:

Publications

A) Books:	
1	Epilithic Cyanobacteria on Temples and Caves of Western Odisha (Lap and Lambert Academic Publishing Riga, Latvia)
B) Book Chapters:	
1	Cyanobacterial Biotechnology
2	Applied Botany

3	Phytodiversification and Human Welfare	
4	Biofertilizer Technology for Rice Based Cropping System	
5	Advances in Environmental Biopollution	
C)Research Papers:		
	Title of the paper	Name of journal
1	Growth response and acetylene reduction activity of two Nitrogen fixing Cyanobacteria to commercial fertilizers.	Algological Studies
2	Effect of UV-C on thylakoid arrangement, pigment content, and nitrogenase activity in the cyanobacterium <i>Microchaetesp.</i>	Indian Journal of Experimental Biology
3	Antimicrobial Activity of the Liches <i>Parmotremaandium</i> and <i>Dirinariaapplanata</i> .	Journal of Applied Biology and Biotechnology
4	Relative tolerance and nitrogenase activity of eight heterocystous cyanobacteria to herbicide, Hiltachlor, 50EC.	International Journal of Toxicological and Phamacological Research
5	<i>In vitro</i> antimicrobial, antioxidant and molecular study of <i>Nostoc punctiforme</i> isolated from the rice field	South Asian Journal of Experimental Biology

4. FDP

- Training course in blue–green algae (cyanobacteria) sponsored by the Dept. of Biotechnology at National Facility for blue – green algal collections IARI, New Delhi from 11 – 23March, 1996.
- Training course on Molecular Biology Techniques sponsored by the Dept. of Biotechnology at Institute of Life sciences, Bhubaneswar from 14 – 18March, 2005.
- Determination course of Cyanobacteria at Faculty of Science, Department of Botany, University of South Bohemia,CzechRepublic from 13-17July, 2009.
- Seminar-cum-Workshop on “Capacity Building in Taxonomy of Algae and Cyanobacteria” at Centre for Biotechnology, Institute of Science, Visva-Bharati, Santiniketan, West Bengal from 10-11February, 2012.

5. Work Experience:

- Basic biochemical analysis using U2000 UV visible spectrophotometer (Hitachi Japan)

- b) Measurement of Photosynthetic oxygen evolution and Respiratory oxygen uptake with clark type oxygen electrode (Hansatech UK).
- c) Nitrogen fixation (acetylene reduction assay) with Amil Nucon 5765 microprocessor based Gas Chromatograph.
- d) Practical experience in different advanced techniques used in frontier areas of biotechnology viz. Gel electrophoresis, PCR, Elution of DNA from gel, Restriction digestion, Cloning into vector, Transformation, Plasmid DNA preparation, DNA isolation, Nucleic acid blotting, Hybridization and DNA sequencing.

6. Research Guidance:

Co-supervised 2 Ph. D. students to successful completion and degree award at Sambalpur University.

Refresher Course

1. UGC sponsored special Summer Course in Science "Research Methodology in Basic Sciences" organized by UGC Academic Staff College, Sambalpur University from 10 - 30 May, 2013.