CURRICULUM VITAE

Dr. Sparsha Pattnaik

Designation: Guest Faculty, Department of Botany
Qualification: Ph.D. Botany
Date of Birth: 29/07/1992
Date of Joining: 01/07/2024
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Area of Interest: Microbiology, Phycology, Economic Botany, Industrial Microbiology, Environmental Science

Courses Taught:

Postgraduate Level: Industrial Microbiology, Phycology, Plant Physiology
Undergraduate Level: Plant anatomy, Embryology of plants, Economic Botany, Phycology, Environmental Science

Career:

Guest Faculty, College of Basic Science and Humanities, O.U.A.T(2021-2022)
Guest Faculty, Rama Devi Women's University, (2024-present)

Teaching Experience:

Postgraduate level: 1.5 years
Undergraduate level: 1.5 years

Research Experience:

Ph.D.: 5 years (O.U.A.T)
Worked as Project fellow DST sponsored Major Research Project entitled "**Screening and extraction of biologically active compounds from sheathed cyanobacteria isolated from building facades and monuments of Odisha"** in P. G. Department of Botany, College of Basic Science and Humanities, O.U.A.T for 3 years.

Publications

Total publications:5

Journal publications

- **Pattnaik, S.,** Mishra, B.B. and Singh, L. (2020). Isolation and Characterization of Novel Antimicrobial Compound from sub-aerial cyanobacterium *Fischerella sp*. isolated from Building facades. *Applied Biological Science*, **23**(1) (ISSN No: 0974-4517, NAAS rating: 5.07).
- **Pattnaik, S.,** Rath, C.C. and Singh, L. (2020). Isolation Identification and Screening for Bioactive Compounds with Antimicrobial Activities from Sub-Aerial Cyanobacteria of Eastern Region, Odisha. *International Journal of Pharmaceutical Science and Research*, **12**(7) (ISSN No: 2320- 5148, Impact factor: 1.23).
- **Pattnaik, S.** and Singh, L. (2020). Cyanobacteria Bioactive Compound, their Production and extraction with pharmaceutical applications – A Review. *International Journal of Current Microbiology and Applied Sciences*, **9**(6): 3394-3405. (ISSN No: 2319-7706, NAAS rating: 5.38).
- **Pattnaik, S.** and Samad, LK. (2018). Spectral analysis of biologically active compounds and antibacterial activity of *Scytonema ocellatum* isolated from sub-aerial habitats. *International Journal of Current Research*, **10**(9): 73218-73224. (ISSN No: 0975-833X, SJIF Impact factor: 7.41).
- **Pattnaik, S.** and Samad, LK. (2018). Morphological and biochemical characterization of Sub-aerial cyanobacteria isolated from building facades and monuments of Odisha. *International Journal of Current Microbiology and Applied Sciences*, **7**(6): 556-571. (ISSN No: 2319-7706, NAAS rating: 5.38).

Publication of Books

- **Pattnaik, S.** and Singh, L. (2021). Extremophile Cyanobacteria: A remedial antidote in Pharmocology LAP Lambert Academic Publisher, ISBN.

Full paper in conference proceedings

- Sparsha Pattnaik (2018). "Diversity analysis of sub-aerial Cyanobacteria in eastern and western regions of Odisha", **Oral presentation** in National Seminar on Science for Society on the occasion of 20th "Odisha Bigyan O Paribesh Congress" held on 17th and 18th November, National Institute of Science Education and Research (NISER), Bhubaneswar, Odisha.

- Sparsha Pattnaik (2018). "Detection of functional group and antimicrobial activity of sub-aerial Cyanobacteria extracts against human pathogenic strains", **Poster presentation** in National Biodiversity Authority & Department of Science and Technology (DST-SERB) sponsored National Conference on VISTAS in Biotechnology in Biodiversity, Biology, Biotechnology and Nanotechnology of Algae (VBBBNA 2018) held on 20th - 22nd September, Madras Christian (Autonomous) College, Chennai, Tamil Nadu.

- Sparsha Pattnaik (2017). "Biochemical and Phytochemical Characterization of sub-aerial Cyanobacteria", **Poster presentation** in International Symposium on Microbes for Sustainable Development: Scope & Applications (MSDSA-2017), 58th Annual Conference of Association of Microbiologists of India (AMI) held on 16th - 19th November, Babasaheb Bhimrao Ambedkar (A Central) University, Lucknow.