



Dr. K. Vanitha
ADJACENT FACULTY

Address : Department of Botany
Alagappa University, Karaikudi, Tamil Nadu, India

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Academic Qualifications

Degree	Institution	Year	Branch	Class
Ph.D.	Annamalai University	December 2014	Marine Biology	Awarded
M.Phil.	Bharathidasan University	Jan- 2008	Botany	First class with distinction
M.Sc.	H.H. The Rajah's College, Pudukottai	April- 2006	Botany	First class with distinction
B.Sc.	S.A.College for Women, Pallathur- Karaikudi	April-2004	Botany	First class

Teaching ExperienceContact

Total Teaching Experience : 6 Years 4 Months

Position	Institution	Duration
Adjunct Faculty	Alagappa University	November 2022 to till date
Assistant Professor	Dr. Umayal Ramanathan College for Women, Karaikudi	July 2022 to November 2022
Assistant Professor	Vidhyaa Giri College of Arts And Science, Puduvayal,	February 2021 to June 2021
Assistant Professor	Dr. Umayal Ramanathan College for Women, Karaikudi	December 2018 to April 2019.
Guest Lecturer	H.H. The Rajah's College, Pudukottai	August-2009 to July-2010.
Lecturer	S.A. College for Women, Pallathur	July- 2006 to April- 2009.

Research Experience

Total Research Experience : 6 Years

Position	Institution / University	Duration
Adjunct Faculty	Alagappa University,	November 2022 to till date
JRF and SRF (SAC project)	Annamalai University	May-2012 to March- 2014
Project Fellow (MoEn & F project)	Annamalai University	August-2010 to April- 2012.

Academic and Additional Responsibilities

S. No	Position	Departmental Bodies	Period	
			From	To
1.	Department level Co-ordinator	NIRF Coordinator	Nov.2022	Till date
2.	Department level Co-ordinator	Alumni and Parent Teacher Association	Nov.2022	Till date
3.	Department level Co-ordinator	Vivekananda Cadet Corps/ Employability Skills/ Career Guidance	Nov.2022	Till date
4.	Department level Co-ordinator	Academic Audit	Nov.2022	Till date
5.	Department level Co-ordinator	VEP Report	Nov.2022	Till date

Areas of Research

- **Mycology and Dermatology:** Investigating fungal species associated with human foot corns.
- **Phytochemical Analysis and Pharmacology:** Exploring the chemical composition and biological activity of *Dicliptera cuneata* Nees for potential drug discovery and medicinal purposes.
- **Integrated Analytical Chemistry and Pharmacology:** Utilizing spectroscopic techniques and biological assays to identify bioactive compounds in *Barleria buxifolia* L. leaves, with implications for organic chemistry, pharmacology, and analytical chemistry.
- **Phytochemical Screening and Pharmacology of Medicinal Vines:** Assessing the phytochemical composition and pharmacological properties of *Trichosanthus tricuspidata* Lour, contributing to understanding its medicinal potential.
- **Ethnobotany:** Documenting traditional herbal medicinal plant usage in a specific geographic area, Nerinjikudi Village, Pudukkottai District, Tamil Nadu, India.
- **Phytochemical Screening and Pharmacology of *Barleria longiflora* L.F.:** Similar to the third project, investigating the phytochemical composition and pharmacological activities of *Barleria longiflora* L.F. leaves.
- **Phytochemical Analysis and Pharmacology of *Antigonum leptopus* Hook & Arn. Tuber:** Exploring the chemical constituents and pharmacological properties of *Antigonum leptopus* Hook & Arn. tubers for potential medicinal applications.
- **Botanical Studies:** Conducting systematic anatomical, histochemical, and cytotoxic investigations on seagrasses in India to better understand their structure and taxonomy.

Research Supervision/Guidance

Program of Study		Completed	Ongoing
Project	PG	3	6

- Isolation and identification of fungus from human foot corn samples
- Study of analysis phytochemical and biological activity in *Dicliptera cuneata* Nees.
- Profiling of Bioactive Entities Using FT-IR,GCMS and Antibacterial, Antioxidant, Anti-Inflammatory Activity of *Barleria buxifolia* L. Leaf Crude
- Phytochemical Screening, Antibacterial, Antioxidant, Anti-Inflammatory Activity of Leaf Extract in the Medicinal Vine *Trichosanthus tricuspidata* Lour.
- Documentation of The Usage of Traditional Herbal Medicinal Plants In Nerinjikudi Village, Pudukkottai District, Tamil Nadu, India
- Phytochemical Screening and Study of Anti-Bacterial, Anti-Inflammatory and Antioxidant Activity of Extracts from Leaf of *Barleria longiflora* L.F.

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books/ Chapters/ Monographs/Manuals
5		2	3	1

Cumulative Impact Factor (asperJCR) :4.4

h-index :4

i10 index :1

Total Citations :29

International Publications

- Kumar, T., T.V. R. Murthy, C. Prabakaran, **K. Vanitha**, T. Thangaradjou and R. Mani murali, 2017. Modeling photosynthetic rates of Indian red mangroves (*Rhizophoramucronata*Poir.) to climatic factors. *Tropical Ecology* 58(4): 717-729,

<http://www.tropecol.com/journal>(**impact factor-1.126 and Scopus Index- 05643295**)

- **Vanitha K.**, Pon. Subhashini and T. Thangaradjou, 2016. Karyomorphometric analysis of somatic chromosomes of seagrasses in India. *Aquatic Botany*, 133:45-49.
<https://www.elsevier.com/journals/personal/aquatic-botany>(**impact factor-1.714 and Scopus Index - 03043770**)
- Bharathi, K., Pon. Subhashini, S. Raja, R. Ranith, **K. Vanitha** and T. Thangaradjou, 2014. Spatial variability in distribution of seagrasses along the tamilnadu coast. *International Journal of Current Research*, 6(10): 8997--9005,
<http://www.journalcra.com/ijcr-journal>
- **Vanitha, K.** and S. Thangarasu, 2013. Phytochemical profiling and GC-MS study of *Antigonum leptopus* Hook & Arn. *Internat. J. Chemtech. Res.*, 5(4): 1630-1640.
<http://www.sphinxssai.com> (**impact factor-0.598 and Scopus Index -09744290**)
- Subhashini, P., **K. Vanitha** and T. Thangaradjou, 2013. Observation on reproductive structure and phenology of seagrasses in India. *Seagrass watch*. Issue 48.
www.seagrasswatch.org/magazine .

National Publications

- **Vanitha, K.**, E. Dilipan and T. Thangaradjou, 2013. Improved fixing and image interpretation techniques for counting chromosomes in seagrass *Halodule pinifolia* (Miki) den Hartog. *Indian J. Geo-mar. Sci.* 43(10):1-4.
<http://www.niscair.res.in/sciencecommunication/researchjournals/rejour/ijms>(**impact factor-0.172 and Scopus Index -09751033**)
- Bharathi, K., **K. Vanitha**, P. Subashini and T. Thangaradjou, 2013. Carbon sequestration potential of seagrass ecosystem of Gulf of Mannar Biosphere Reserve, India. *Indian J. Geo-mar. Sci.* ISSN: 0379-5136
<http://www.niscair.res.in/sciencecommunication/researchjournals/rejour/ijms>(**impact factor-0.172 and Scopus Index -09751033**)
- Subhashini Pon., **K. Vanitha** and T. Thangaradjou, January 2014 with 6 reads, In Book: training manual on Biodiversity of marine flora. MHRD, Chapter: Seagrasses, pp. 43-55.

Events Participated

Number of Conferences/Seminars/Workshops: 14

National Conferences

- **National level conference** on Recent Trends in Microbiology, conducted by Department of Microbiology, Alagappa University, Karaikudi on 5th & 6th January 2023.

- **Presented a paper** Spacial changeability and Distribution of Seagrasses along the Tamilnadu Shoreline, **National conference** on “ Crossroads of Biological Science and it’s applications” post graduate department of zoology, Berhampur University, BhanjaBihar, Odisha, on 15th to 16th February, 2019.
- **National Level Conference** on “Recent Advances in Modern Microbiology” held on 29th January 2016 at Department of Microbiology and CLT, Dr.Umayal Ramanathan College for Women, Karaikudi.
- **National conference** on Mangrove wetland and near shore marine ecosystem from sustainability issue to management & restoration, School of environmental sciences, Jawaharlal Nehru University, **New Delhi** from 5th – 6th March 2012. **Presented a paper** Internal structure of Indian seagrasses of the family Potamogetanaceae.
- **Presented a paper** Phytochemicals of *Antigonum leptopus* Hook&Arn., Leaf and Tuber, **UGC National conference** on “Future Perspective of Botanical Research”, Department of Botany, Annamalai University, on 18th -19th February 2011.
- **National level conference** on Recent Trends in Bioethics, conducted by Department of Botany, H.H. The Rajah’s college (Autonomous), Pudukkottai, on 18th September 2009.
- **National Conference** on Recent trends in Mycological Research held from 28th and 29th December -2006 at Department of Botany, Microbiology and Gene Technology, J.J.College of Arts and science, Pudukkottai.

State level Seminars

- **State level Seminar** on Harms of Media Violence on Women and Children, Centre for Women Studies, Alagappa University, Karaikudi on 14th March 2009.
- **State level Seminar** on “Technology of Organic Farming for Rural Development, Department of Botany, Alagappa College on 25th -26th September 2008.
- **Seminar** on Recent Trend in Medicinal plants, Department of Botany, Govt Arts College for Women, Pudukkottai on 2nd February 2006.

Workshop and Training programme

- **One-Day National level Workshop on** “Patenting and Collaborations with Industries” organized by Industry and Consultancy wing & University Business Collaboration Centre on 30 January 2023.
- **International Workshop** cum Seminar on “Advances in Modern Biotechnology and Molecular Techniques in Veterinary Parasitology: Diagnosis, Chemotherapy and Control” the School of Biotechnology, Alagappa University, 17th -21st March, 2008.

- **Workshop** on marine Corrosion and Surface Engineering at the Centre of Advanced Study in Marine Biology, Faculty of Sciences, Annamalai University, Parangipettai from 24th to 26th November 2011.
- **Training Programme** on Mushroom Cultivation, Vermicompost and Biofertilizer, Jan Shikshan Sansthan, Sponsored by The ministry of Human Resource Development, Department of elementary Education & Literacy, Govt. of India, Kundrakudi on 31st January 2007.

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