

Alphonsa Vijaya Joseph, M. Phil., Ph.D.

Associate Professor and Head

Department of Botany

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Area of Specialisation: Mycology, Microbial Genetics

RESEARCH EXPERIENCE:

- **M. Phil.:** Studies on the Genus *Entoloma* (Entolomataceae, Basidiomycetes) from Kerala State, India (University of Calicut)
- **Junior Research Fellow** at the Department of Mycology, Tropical Botanic Garden and Research Institute, Thiruvananthapuram.
- CSIR Senior Research Fellow at Department of Botany, University of Calicut
- **Ph. D.:** Characterization and Pathogenicity Studies on *Vibrio cholerae* and *Vibrio vulnificus* from Marine Environments (Dept. of Biotechnology, Cochin University of Science and Technology, Cochin).

CAREER ACHIEVEMENTS:

- First Rank holder in M.Sc. Botany (University of Calicut), St. Joseph's College, Devagiri, Kozhikode
- Awarded CSIR Senior Research Fellowship, 1994
- The research work on "**Bio-compatible ZnS:Mn nanocrystals conjugated with L-citrulline, as fluorescent probes for DNA visualization and for finger print analysis in forensic studies**" has been published in the Indian Patent Journal in May, 2016
 - The patented product is a nanoparticle that can be used as a DNA stain which is cost-effective and non-toxic and is a breakthrough in genetic and molecular studies with DNA.
- Seven new species of mushrooms (*Entoloma* species) have been discovered from the Western Ghats of Kerala and are deposited and registered at Kew Gardens, London.
- A total of 86 sets of sequences are used as reference at GenBank, National Centre for Biotechnology Information
- 10 International publications in peer reviewed journals
- Resource person for various seminars and extension activities related to mushroom biodiversity and cultivation

- The interdisciplinary projects guided for the Plus Two students have bagged prizes at the National level.

Publications:

Ten International publications in peer-reviewed journals

1. Kirthana Raj B. and **Alphonsa Vijaya Joseph** (2016). Comparative Study on Antibacterial Potential of Phytochemicals and Ayurvedic Formulations against Urinary Tract Infectious Bacteria. *The International Journal of Science & Technoledge*. Vol 4(4): 46-50.
2. Kirthana B. Raj and **Alphonsa Vijaya Joseph** (2016). Antibacterial Potential of Phytochemicals against Urinary Tract Infectious Bacteria. *International Journal of Innovative Research and Development*. 5 (4): 178-183
3. **Alphonsa Vijaya Joseph**, Raghul Subin S., Harisree P. Nair and Sarita G. Bhat. Occurrence of Potential Pathogenic *Aeromonas* species in Tropical Seafood, Aquafarms and Mangroves off Cochin Coast in South India. Accepted for publication in *Veterinary World* Vol.6 No.6 June2013. Ref No. VW/Accept/205/20L2.
4. **Alphonsa Vijaya Joseph** and P. Manimohan (1998). Rediscovery of two rare agaricoid Basidiomycetes. *Mycological Research* 102(4): 476-478.
5. Vrinda K.B., C.K. Pradeep, **Alphonsa Vijaya Joseph** and T.K. Abraham (1996). A new *Inocybe* (Cortinariaceae) from Kerala State, India. *Mycotaxon* 57: 171-174.
6. Pradeep C.K., **Alphonsa Vijaya Joseph**, T.K. Abraham and K.B. Vrinda (1996). *Hygrocybe punicea*- an edible mushroom new to India. *Acta Botanica Indica* 24: 103-104.
7. Pradeep C.K., **Alphonsa Vijaya Joseph**, K.B. Vrinda and T.K. Abraham (1996). New records of Agaricales from India. *Journal of Economic and Taxonomic Botany* 20(1): 233-239.
8. Abraham T.K., K.B. Vrinda, C.K. Pradeep and **Alphonsa Vijaya Joseph** (1995). Edible Chantharelle from Southern India. *Mushroom Research* 4:73-76.
9. **Alphonsa Vijaya Joseph**, T.K. Abraham, K.B. Vrinda and C.K. Pradeep (1995). New agarics from South India. *Mushroom Research* 4: 1-6.
10. Manimohan P., **Alphonsa Vijaya Joseph** and K.M. Leelavathy (1995). The genus *Entoloma* in Kerala State, India. *Mycological Research* 15-35.

Role in Academics and Governance:

- Teaching experience of 21 years at UG and PG level
- Member of the Governing Council, St. Teresa's College (Autonomous), Ernakulam
- Chairperson, Board of Studies in Botany, St. Teresa's College (Autonomous), Ernakulam
- Joint Coordinator of IQAC, St. Teresa's College (Autonomous), Ernakulam
- Member, Advisory Board, St. Teresa's College (Autonomous), Ernakulam
- Member of the Panel of Question paper setters of Calicut and Kerala University
- Member of the Ernakulam Agri-Horticultural Society
- Life Member, Association of Microbiologists of India
- Life Member, Association of Biotechnologists of India
- Life Member of Kerala Botanical Society