
DR. ALPHONSA VIJAYA JOSEPH

Designation : Associate Professor and HOD
Qualification : M.Sc., M.Phil., Ph.D.
Area of Specialization : Microbial Genetics
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Profile in Detail

Academic records



- **Ph.D.** : 2014
 - Department of Biotechnology, Cochin University of Science and Technology
 - Topic: Characterization and Pathogenicity Studies on *Vibrio cholerae* and *Vibrio vulnificus* from Marine Environments (Dept. of Biotechnology, Cochin University of Science and Technology, Cochin).
- **M.Phil.** : 1993
 - Department of Botany, University of Calicut
 - Topic: Studies on the Genus *Entoloma* (Entolomataceae, Basidiomycetes) from Kerala State, India
- **M.Sc.** : 1990-1992
 - First Rank in M.Sc. Botany, University of Calicut.
 - St. Joseph's College, Devagiri, Kozhikode.
- **B.Sc.** : 1987-1990
 - Providence Women's College, Calicut.

Professional/Teaching Experience



Years - 25

- Name of Institution : St. Teresa's College (Autonomous), Ernakulam
- Position held : Associate Professor
- Period : From 1995 to present
- Subject handled & Nature of duties: Teaching UG and PG classes

Research Experience & Expertise



- **Key areas of Research**
 - Taxonomy of Basidiomycetes
 - Microbial Genetics
- **Patent:** 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
- 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
- **FDP for Ph.D.** at Department of Biotechnology, Cochin University of Science and Technology, Cochin (2010-2013)
- **CSIR Senior Research Fellow** at Department of Botany, University of Calicut (1994-1995)
- **Junior Research Fellow** at the Department of Mycology, Tropical Botanic Garden and Research Institute, Thiruvananthapuram (1993 – 1994)

Administrative responsibilities and Positions held in College



- Dean, 2020-2021
- Head of the Department of Botany (2018-2021)
- Nominated Member of the Governing Council, St. Teresa’s College (Autonomous), Ernakulam (2014-2018)
- Member, Advisory Board, St. Teresa’s College (Autonomous), Ernakulam
- Member of the Academic Council
- Chairperson, Board of Studies in Botany, St. Teresa’s College (Autonomous), Ernakulam (2018-2021)
- Joint Secretary, IQAC (2018-’19)
- Dean of Student Affairs (2008-’09; 2019-’20)
- Member of NAAC Core Committee, 4th Cycle of Accreditation (2019)
- Teacher in Charge of NSS, Arts Club, Counselling Cell

Extension activities



- Training in Mushroom cultivation for Panchayaths and Kudumbasree Units
- Teacher in charge of TROP activities (2016-17)

Publications in peer reviewed national/international journals



1. Priya Parvathi Ameena Jose, M. S. Kala, **Alphonsa Vijaya Joseph**, Nandakumar Kalarikkal, and Sabu Thomas.(2020) "Reduced graphene oxide/silver nanohybrid as a multifunctional material for antibacterial, anticancer, and SERS applications." *Applied Physics A* 126, no. 1: 1-16.
2. 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.
3. 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
4. **Alphonsa Vijaya Joseph**, Raghul Subin S., Harisree P. Nair and Sarita G. Bhat. (2013). Occurrence of Potential Pathogenic *Aeromonas* species in Tropical Seafood, Aquafarms and Mangroves off Cochin Coast in South India. *Veterinary World* Vol.6 No.6.
5. **Alphonsa Vijaya Joseph** and P. Manimohan (1998). Rediscovery of two rare agaricoid Basidiomycetes. *Mycological Research* 102(4): 476-478.
6. 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.
7. 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.
8. 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.
9. Abraham T.K., K.B. Vrinda, C.K. Pradeep and **Alphonsa Vijaya Joseph** (1995). Edible Chantharelle from Southern India. *Mushroom Research* 4:73-76.
10. **Alphonsa Vijaya Joseph**, T.K. Abraham, K.B. Vrinda and C.K. Pradeep (1995). New agarics from South India. *Mushroom Research* 4: 1-6.
11. Manimohan P., **Alphonsa Vijaya Joseph** and K.M. Leelavathy (1995). The genus *Entoloma* in Kerala State, India. *Mycological Research* 15-35.

Delivered invited lectures/resource person/chaired session



Resource person for the seminar on International Year of Pulses 2016 organized by Department of Biosciences, MES College, Marampilly on September 30, 2016. **Topic:** *Pulses: The Pulse of Life.*

Resource Person for the seminar on ‘Climate is Changing, Food and Agriculture must too’ in connection with World Food Day Celebrations, organized by the Dept. Of Clinical Nutrition and Dietetics., St. Teresa’s College, on 18th October. 2016. **Topic:** *Role of Pulses in Sustainable Food Production.*

Resource Person for the seminar on Act Fast: First aid and Safety Techniques organized by Postgraduate Department of Chemistry, St. Teresa’s College, Ernakulam on 9th November, 2018. **Topic:** *Biosafety in Biolabs.*

Membership/Professional affiliations in academic societies



- Life Member, Association of Microbiologists of India
- Life Member, Association of Biotechnologists of India
- Life Member, Ernakulam Agri-Horticultural Society
- Member, Kerala Botanical Society

Dr. Alphonsa Vijaya Joseph

3 November, 2020