

# Dr. MUMTHAS YAHIYA

## CURRICULUM VITAE



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**Official Address** : Assistant Professor  
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MRA Nagar 130 D, Mundakkal West, Kollam. 691001  
: Kerala, India

**Sex** : Female

**Date of Birth** : 14/05/1986

## EDUCATION

**2023** : Recognized **Research Guide of University of Kerala**  
Guideship Order : 5656/2024/UOK dated 06/07/2024  
Specialization: Biodiversity and Toxicology

**2018** : Ph.D (Marine Benthic Diversity and Toxicology)  
PG& Research Department of Zoology,

Fatima Mata National College, Kollam  
University of Kerala,  
Kariavattom Campus, Thiruvananthapuram  
Thesis: '*Anthropogenic stressors and its impact on the  
Macrobenthic Invertebrate Assemblages along the Southern  
Coast of Kerala, India*'

**2016** : **State Eligibility Test (SET – Natural Science)**  
Directorate of Higher Secondary Education

**2012** : **KUJRF General Aptitude Test (PhD Entrance)**  
University of Kerala – III<sup>rd</sup> Rank

**2016** : **M.Sc. Zoology**  
Milad-E-Sherief Memorial College, Kayamkulam, Kollam  
Marks Obtained: 80% - First Position in college

Thesis: A study on the cytotoxicity and mitotic activity of Heavy metals  
(Cu, Zn) using *Allium cepa* root tip chromosome aberration assay

**2009** : **B.Ed. Natural Science**  
Fathima Memorial Training College, Mylapore, Kollam  
**Marks Obtained: 82% - I<sup>st</sup> Position in College**

**2007** : **B.Sc. Zoology**, Fatima Mata National College, Kollam  
**Marks Obtained: 71%**

## **CERTIFICATIONS**

- **2017** Certificate of Completion – Making Powerful Multimedia Presentations
- **2010** Certificate of Merit – Peachtree, Microsoft Office
- **2007** Certificate of Merit – Equivalence to level 4 of ICB Qualifications
- **2007** Certificate of Merit – Tally Financial Accounting

## **TEACHING EXPERIENCE**

- Working as Assistant Professor at TKM College of Arts and Science, Kollam since 22/12/2021 to till date
- Working as Assistant Professor (Adhoc) at TKM College of Arts and Science, Kollam since 02/09/2019 to 31/03/2020
- Working as Assistant Professor (Adhoc) at Fatima Mata National College, Kollam since 08/10/2018 to 31/08/2019
- Worked as Higher Secondary School Teacher at KMJ Central School, Pallimukku, Kollam
- Worked as a IT Teacher at MEA English Medium School, Kollam

## **RESEARCH EXPERIENCE**

- Over 10 years of Research experience and data analysis

- Completed one UGC project
- Completed 09 M.Sc. Projects and 05 Degree Projects
- Proficient with Microsoft Office programmes
- Proficient with Statistical Programmes (SPSS V.24, PAST 3.14, XL statistics 2015, MATLAB and PRIMER 7)
- Proficient with Instrument operations (GC, GC-FID, Water Analyzer, Olympus CX21i, Labomed, ICP-AES Etc.,

## PATENT/AWARD /HONORS

Sl.No	Title of Patent /Award/Honours	Institute /Agency /Organization	Year of Award
1.	Certificate of Appreciation	Wetland Division of Ministry of Environment, Forest and Climate Change, Govt.of India	2025
2.	Certificate of Appreciation	Maths conference,as Organizing committee member, TKM College of Arts and Science,Kollam	2025
3.	Kerala Vanitha Mithram Puraskaram	Kerala Congress, Kollam District	2024
4.	Women Environment star Award	Souhridha vedhi, NGO, Kollam	2023
5.	Educational appreciation award	FMN College, Kollam	2020
6.	Educational Excellence award	NGO, Kollam	2019
7.	Certificate of Merit – <b>First place&amp; Best Oral Presentation award –Life Sciences</b>	Department of Biotechnology, Govt. College, Kariavattom	2016
8.	Certificate of Merit <b>Best Paper Award – Life Sciences</b>	School of Life Sciences University of Kerala, Kariavattom	2016
9.	Mother Teresa Open Merit Scholarship	FMN College, Kollam, (Affiliated to University of Kerala)	2008
10.	Best Outgoing Student Award	FMT, Kollam, (Affiliated to University of Kerala)	2008
11.	Certificate of Appreciation	FMT, Kollam, (Affiliated to University of Kerala)	2008

- ❖ Attended the National Level UGC Sponsored Faculty Orientation/Induction programme at HRDC, Calicut University 12.07.2023 to 10.08.2023.
- ❖ Attended the **Refresher Course** in Women's Studies and Women Empowerment (Multidisciplinary-Online) is from 04-12-2024 to 17-12-2024 at University/College teachers conducted by the UGC-Malaviya Mission Teacher Training Centre, University of Kerala, sponsored by the University Grants Commission.

## REVIEWING ARTICLES IN SCOPUS-INDEXED INTERNATIONAL JOURNALS

1. Kiri Rodgers <sup>1\*</sup>, Holly Walder <sup>2</sup>, Ronnie Mooney <sup>2</sup>, Tatyana Peshkur <sup>2</sup>, Iain McLellan <sup>3</sup>, Roderick Williams <sup>1</sup>, Andrew S. Hursthouse <sup>3</sup>, Fiona L. Henriquez <sup>2</sup> and Charles W. Knapp (2025) Source tracking of polyaromatic hydrocarbons in estuarine sediments and the influence of dioxygenase biodegradation. *PeerJ Life & Environment*. <https://peerj.com/life-environment/>
2. Qu Chen Equal first author, 1, Tianwen Song Equal first author, 2, Jingjing Kong 1, Jingjing Zhang 1, Lei Zhu 1, Hailong Li 1, Yizhe Wang 3, Di Xiao 1, Tingting Tang 1, Haili Zhang 1, Zichu Zhao 1, Qingli Zhang Corresp. "Occurrence, composition, sources, and ecological-health risk assessment of polycyclic aromatic hydrocarbons in Chinese water bodies: A review" (#2025:05:119008:0:2:REVIEW) *PeerJ Life & Environment*. <https://peerj.com/life-environment/>
3. Faunal assemblages and biota-substrate interactions in tropical Nigerian tidal flats: influence of sediment grain size and physicochemical parameters. Manuscript Number: Ms\_AJEE\_139362. *Asian Journal of Environment & Ecology* (ISSN: 2456-690X).

## POPULAR ARTICLES

1. Dr Mumthas Yahiya 'Interaction of Human with Nature'- Gadgil Report and Conservation of Western Ghats Ashtamudi Live news 2021.
2. Dr Mumthas Yahiya International day of observing wild life week – Detailed Report Ashtamudi Live news 2021
3. Dr Mumthas Yahiya Joy and Income from pets Ashtamudi Live news 2021
4. Dr Mumthas Yahiya & Dr. Jasin Rahman V. K Students need to line up for Ecosystem restoration Ashtamudi Live news 2021
5. Dr Mumthas Yahiya 1 International Oceans Day Ashtamudi Live new 2021.

## SCIENTIFIC PUBLICATIONS

### ***Books***

1. Proceedings of the International Seminar on Blue Growth Initiative Sustainable fishery development strategies and advanced technologies for aquaculture(BISFAA).2019. Dr Sherly Williams E, Prof. Nisha Thomas P, **Dr Mumthas Y**, Dr Vijayasree AS and Mrs. Lekshmi priya V. PG & Research Department of Zoology, Fatima Mata National College(Autonomous), Kollam. ISBN 978 93-5382-468-6.
2. Zooplankton as Bio-indicators of Pollution. 2018.Mary Miranda, **Mumthas Yahiya**, Don D'Cruz, Lap Lambert Academic Publishing, Mauritius – ISBN 978-613-9-87461-3.

3. Impact of Anthropogenic Stressors on Marine Benthos. 2018. **Mumthas Yahiya**, Mary Teresa P Miranda, Don Wallace Freeman D'Cruz, Lap Lambert Academic Publishing, Mauritius – ISBN 978-613-9-89105-4.
4. Effects of pollution on Marine Benthic Assemblages. 2018. Mary Miranda, **Mumthas Yahiya**, Don D'Cruz, Lap Lambert Academic Publishing, Mauritius – ISBN 978-613-9-91103-5.
5. Fish Diversity of Ashtamudi Lake, A Ramsar site India. 2018. Usha NS, George F D'Cruz and **Mumthas Yahiya** Lap Lambert Academic Publishing, Mauritius – ISBN (*in Press*).

### ***Book chapters***

1. George F D'Cruz and **Mumthas Yahiya** (2019). Kerala Science Congress detailed presentation, Sasthrakeralam, April 2019.
2. MTP Miranda and **Mumthas Y** and Bincy PK, Value added products from fish and shell fishes Book – 2015, CMFRI, Kochi.
3. MTP Miranda and **Mumthas Y**, Marine Litter: Issues and Concerns, Science India - Year Book 2014, Science India Forum, UAE.

## **PAPERS PUBLISHED IN JOURNALS**

### ***International***

1. Latha, C., & Yahiya, M. (2025). *Macrobenthic Communities as Bio Indicators of Water Quality in the Mangrove Ecosystem of Ayiramthengu, Kerala, India*. Indian Hydrobiology, **24**(1), 201–208. ISSN: 0971-6548. [UGC-CARE listed journal since 2019]. <https://indianhydrobiology.yolasite.com/>
2. C. Latha, Neena Narayanan, **Mumthas Yahiya** and S. Seethal Lal, 2025. Microplastic Accumulation in Edible Fish Species from Kayamkulam Kayal, Kerala. Indian Hydrobiology, 23(2): 431–446, 2024 Received: 29.10.2024; Accepted: 01.12.2024. ISSN 0971-6548 UGC-CARE List since 2019. <https://indianhydrobiology.yolasite.com/>
3. Remya Babu R, Sherly Williams E, **Mumthas Yahiya**, Seethal Lal S , Lekshmi Priya V. 2024. Analysis of heavy metal concentration and its bioaccumulation in *Gerres filamentosus* (Cuvier, 1829) from Ashtamudi Lake, Kollam, Kerala, South India. Copyright (c) 2024. Journal of Advanced Zoology. Vol. 45 No. 3 (2024). <https://jazindia.com/index.php/jaz/article/view/4494>. <https://doi.org/10.53555/jaz.v45i3.4494>
4. Pranay Punj Pankaj, Ravneet Kaur, Tanmay Ghosh and **Mumthas Yahiya**. 2024. Exploring The Intricate Web: How Fishery Management And Zoology Unite In The Governance Of Aquatic Diseases, Journal of Advanced Zoology, Volume:45 (S2), Pages:394–400. ISSN:0253-7214 Impact Factor:0.1. <https://doi.org/10.53555/jaz.v45iS2.4178>.

5. **Mumthas Yahiya**, Seethal Lal S and Latha C., 2023. Environmental Risk of Heavy Metals in the Southern Coast of Kerala, India, Journal of Chemical Health Risks. ISSN:2251-6727 Impact Factor:0.22. <https://www.jchr.org/index.php/JCHR/article/view/983>.
6. **Mumthas Yahiya** & MTP Miranda, Comparison of Proximate and Mineral Analysis of Pila Scutata (Mousson,1848). 2023. Eur.Chem.Bull., Volume:12(Special Issue5), Pages:560–570. ISSN:2063-5346 Impact Factor:0.5. [https://www.eurchembull.com/archives/volume-12/special%20issue-5\(part-a\)/2706](https://www.eurchembull.com/archives/volume-12/special%20issue-5(part-a)/2706).
7. **Mumthas Yahiya**, and MTP Miranda, 2020. Distribution, Sources and Potential Toxicological Significance of Polycyclic Aromatic Hydrocarbons (PAHs) in the South West Coast of Kerala, India. Material today Proceedings. **Elsevier Material today Proceedings. Materials Today: Proceedings MATPR16724. PII. S2214-7853(20)35550-4 Elsevier.** <https://www.academia.edu/43311406>.
8. **Mumthas Yahiya** & Latha Chin.2019. Macrobenthic Invertebrate Assemblages along the Ayiramthengu Mangroves, West Coast of India. International Journal of Research and Analytical Reviews (IJRAR) E-ISSN 2348-1269, P- ISSN 2349-5138 | Impact factor: 5.75. Volume 6 | Issue 2 | 2019.
9. **Mumthas Yahiya**, Kanni J. Mohan & Miranda M T P.2018. Trace metal accumulation in marine molluscs (Perna indica & Bursa sp) along the southern coast of Kerala, India. International Journal of Fisheries and Aquatic Studies 2018; 6(6): 332-335.
10. **Mumthas Y**, and MTP Miranda,2016. Planktons as Indicators of Heavy Metal Pollution along South West Coast of India International Journal of Science and Research (IJSR) ISSN (Online): 2319-7064 Index Copernicus Value (2015): 78.96 | Impact Factor (2015): 6.391.
11. Ambili, T., **Mumthas.Y.**, Reenamole, GR., Athira Raj and George D'Cruz .2018. Ecological aspects of Ayiroor river in south India with special reference to hydrographical characteristics. *International Journal of Current Research in Life Sciences* Vol. 07, No. 03, pp.1335-1341, March, 2018.

## **National**

1. **Mumthas Yahiya**. 2022. Comparison of Hydrological Parameters along the TS canal in relation with Microbial content and Plankton diversity. TKM Arts College International Journal for Multidisciplinary Research (TIJMR) Vol. 2 No. 2 July, 2022, Pp 24-36.
2. **Mumthas Y** and Miranda MTP, 2017. Assessing Multiple Stressors on Macrofaunal communities along the coastal ecosystems of southern Kerala coast. J. Mar. Biol. Ass. India,59(1) doi: 10.6024/jmbai.2017.59.1.1954-06.
3. **Mumthas Y**, and MTP Miranda, 2016. Effects of organic and inorganic pollution on macrobenthic communities along the coast of Kerala, south west coast of India Journal of Applied Science and Research, 2016, 4 (2):1-11, ISSN 2348-0416 - USA CODEN: JASRHB- (IF:4.427).
4. Reenamol GR, **Mumthas Y**, Ambili T and George D'Cruz F. 2016 – Conservation Needs of Vellayani Fresh water lake, Kerala with reference to the Assessment of Productivity. Millennium Zoology Vol.17(1), 2016. ISSN 0973-1946.
5. **Mumthas Y** and MTP Miranda, 2015 - Macro benthos and anthropogenic stressors – the need for bio-monitoring along the Coast of Kerala, India, Ind.J.Sci.Res.and Tech.2015,3 (5):62-71/ISSN: 2321-9262.

## PAPERS PRESENTED IN SEMINARS/ SYMPOSIA

### **International**

1. **Mumthas Y**, Soumya Mathunny, Meharunnisa K.M, Sooria S, Alfiya. N, Fathima . A & Mahamutha Thazneem Gastropod diversity along the inter-tidal coast of Kavaratti Island, Lakshadweep, India. 2022. MInternational Conference Impact on Impact of climate change on Aquatic Life and Mitigation Measures For a sustainable Blue Economy ICCAMS -2022 organized by PG & Research Department of Zoology, Fatima Mata National College, Kollam on 23-25 November 2022.
2. Mumthas Yahiya & Latha Chin. 2020. International Conference on “Conservation of Mangrove Ecosystem: Synergies for Fishery Potential” (CMESFP- 2020) Department of Environmental Sciences, University of Kerala, Thiruvananthapuram, Kerala, India & Estuarine & Coastal Sciences Association, U 2020 ISSN 2321-340X.
3. **Dr Mumthas Yahiya**, Maria Jenifer, Arya, and Annet mathew. Metazoan Parasites in Two Edible Fish Species. 2019. International Seminar on Blue Growth Initiative Sustainable fishery development strategies and advanced technologies for aquaculture (BISFAA).2019. PG & Research Department of Zoology, Fatima Mata National College (Autonomous), Kollam- ISBN 978 93-5382-468-6.
4. Dr Geethu G and **Dr Mumthas Yahiya**. 2019. Optimization of *Drosophila melanogaster* culture media to study the developmental stages. International Seminar on Blue Growth Initiative Sustainable fishery development strategies and advanced technologies for aquaculture (BISFAA).2019. PG & Research Department of Zoology, Fatima Mata National College (Autonomous), Kollam- ISBN 978 93-5382-468-6.
5. **Dr Mumthas Yahiya**, Nisha Thomas P and Athira R. 2019. Comparison of sedimentological parameters along the Kollam canal relation with microbial content. International Seminar on Blue Growth Initiative Sustainable fishery development strategies and advanced technologies for aquaculture (BISFAA).2019. PG & Research Department of Zoology, Fatima Mata National College (Autonomous), Kollam- ISBN 978 93-5382-468-6.
6. **Mumthas Y**, NG Deepthi, and Miranda MTP, 2018 – Toxic effects of copper and zinc on cell division and chromosomal morphology of *Allium cepa* - Poster presented at International Conference on innovations and sustainable research in Environment and Life Sciences conducted in the PG and Research Department of Zoology (DST- FIST Assisted) Fatima Mata National College (Autonomous), Kollam, Kerala on 07-09 August; 2018. 63-65 (p) – ISBN 978-81-89152-06-2.
7. Lata C, **Mumthas Yahiya**, and Divya MS, 2018 – Macrofaunal diversity along Ayiramthengu mangroves – Oral presentation on International Conference on innovations and sustainable research in Environment and Life Sciences conducted in the PG and Research Department of Zoology (DST- FIST Assisted) Fatima Mata National College (Autonomous), Kollam, Kerala on 07-09 August; 2018. 101-103 (p) – ISBN 978-81-89152-06-2.



8. Mumthas Yahiya, Mary Teresa P Miranda. 2018. Proceedings of the International Conference on Innovations and Sustainable Research in Environment and Life Sciences- PG and Research Department of Zoology, Fatima Mata National College, Kollam. 2018 ISBN 978-81-89152-06-2
9. **Mumthas Y**, and Miranda MTP, 2017. Gastropod diversity: Relation with environmental parameters along the coast of Neendakara, Kollam, Kerala, India. Paper presented at International Seminar on Coastal Biodiversity Assessment, COBIA 2017 at St. Gregorios College, Kottarakara, Kerala, India, Marine Biodiversity,196(p), D-07. January 5 – 7, 2017.

## **National**

1. **Mumthas Yahiya** Participated and Presented a paper titled Effects of plastic pollution. National Science Day Celebration Department of Botany, TKMCA 07-02-2025.
2. Akhil Ignus, Miranda MTP, **Mumthas Y** and Vijay laxmi saxena. 2017. Zooplankton as candidate biomonitors of coastal trace metal contamination in Kerala India, Paper presented at 104<sup>th</sup> Indian Science Congress, Tirupati, and January 3-7, 2017. Sub Section –V, Faunal Diversity(FD) P (362).
3. **Mumthas Y** and Miranda MTP, 2016 – Macrobenthic community – Relation with environmental stressor along the coast of Kerala, south west coast of India, National Seminar on recent challenges in biodiversity conservation, Department of Zoology, University of Kerala, 22 – 23rd March 2016, OR 8, p22.
4. 3. Reenamol GR, Ambili T, Susmitha M, Jithin Murali, **Mumthas Y** and Sajin SP, Invasion of fish species in Vellayani freshwater lake in Kerala, South west coast of India, National Seminar on recent challenges in biodiversity conservation, Department of Zoology, University of Kerala, 22– 23rd March 2016, OR 10, p42.
5. Ambili T, **Mumthas Y**, Reenamol GR, Athira Raj, Ahima Raj, and George F D'Cruz, Water Quality assessment in Ayiroor in Thiruvananthapuram, Kerala South west coast of India, National Seminar on recent challenges in biodiversity conservation, Department of
6. Zoology, University of Kerala, 22 – 23rd March 2016, OR 19, p32.
7. **Mumthas Y**, Deepthi NG and Miranda MTP, 2016 - Heavy Metal Induced Cellular Damage on Allium cepa, Directorate of Collegiate education - National Seminar on Current Trends in Life Sciences, 10-12 February 2016 at Department of Biotechnology, Govt. College, Kariavattom (*Received first place for Oral presentation*).
8. **Mumthas Y**, Miranda MTP, Ambili T and Reenamol GR, 2016 - Benthic assemblages
9. and Anthropogenic stressors along the South west coast of India – 28th Kerala Science Congress,28-30 January, 2016, 2638-2643pp.
10. Fousiya Musthafa, **Mumthas Yahiya**, Mary Teresa P Miranda, Ambili Thankamma and Reenamol G Ramani, 2015 - Anthropogenic Stressors and its impacts on the Plankton diversity along the Coast of Kollam, Kerala – 25<sup>th</sup> Swadeshi Science Congress, 15-17, December 2015, LS 23.
11. Reenamol GR, **Mumthas Y**, Ambili T and George F D'Cruz, 2015 - Seasonal variations of productivity of water in Vellayani fresh water lake in Thiruvananthapuram, Kerala 25<sup>th</sup> Swadeshi Science Congress, 15-17 December 2015, LS 30.



12. Fousiya M, **Mumthas Y** and Miranda MTP, 2015 - Plankton Diversity along the coast of Neendakara, Kollam, Coast of Kerala, South west India - National Symposium on changing perspective of Life Sciences, 16-17, December 2015, School of Life Sciences, University of Kerala, Kariavattom, Theme 4: Ecology and Conservation biology, MARC- Life 2015, P:44 (*Received Best Paper Award*).
13. **Mumthas Y** and MTP Miranda, 2015 - Gastropod diversity along the inter-tidal coast of Neendakara, Kollam, Kerala, India, UGC National Seminar on Bio-sciences in the Genomic Era at SN College, Cherthala, July 2–3, 2015.
14. **Mumthas Y**, MTP Miranda and F.G. D'Cruz, 2015 - Impact of Anthropogenic stressors on the dynamics of the macrobenthic invertebrate assemblages of the Kerala coast, South west coast of India, paper presented at 102<sup>nd</sup> Indian Science Congress, Mumbai, January 03-07, 2015.
16. **Mumthas Y**, 2010. Exercise and Immune system, 2010. UGC's sponsored National conference organized by Department of Physical Education, MSM College, Kayamkulam. 2010. ISBN 978-81-92144-3-0-6.160-170pp.

## SEMINARS AND WORKSHOPS ATTENDED

1. Dr. Mumthas Yahiya, from TKM College of Arts and Science, Kollam (affiliated with the University of Kerala), participated in the **International Workshop titled "IUCN & Conservation: How & Why?"** conducted by the **Department of Zoology, University of Calicut** on **15th July 2025**.
2. Workshop State Optimising Research-Steps towards Centre of Excellence TKMCAS 22 March 2023 Participated.
3. Workshop State Awareness/Training Programme under National Intellectual Property Awareness Mission Intellectual Property Office, India 24 June 2022 Participated.
4. Mumthas Yahiya **Coordinated and Participated** Workshop on Value addition of Aquatic Weeds CRAR, Eichhotech, SD College, Cherthala 28-June 2022.
5. **Chaired a session as Resource person** in a state Workshop- 'Sasthtrapadham' Kerala Higher Secondary Samagra shiksha Abhiyan, Thiruvananthapuram and TKM College of Arts and Science, Kollam, January 24-26, 2020.
6. **Chaired an organizing committee member** - Day Observance State International day of Elderly and Breast Cancer month Awareness Health Club and Department of Zoology, TKMCAS, Kollam 1<sup>st</sup> October 2019.
7. **Chaired an organizing committee member** in World Environment Day 2019, organized by Post Graduate and Research Department of Zoology, Fatima Mata National College (Autonomous), Kollam; 14<sup>th</sup> June 2019 sponsored by KSCST and Environment, Government of Kerala, Thiruvananthapuram.
8. **Chaired an organizing committee member** in World Wet Land Day 2019, organized by Post Graduate and Research Department of Zoology, Fatima Mata National College (Autonomous), Kollam; 08 Feb 2019 sponsored by KSCST and Environment, Government of Kerala, Thiruvananthapuram.

9. Participated and **Handled a Practical Session** in workshop on practical training higher secondary teachers in biology - 'Disha' - held during 15-16 February, 2019. sponsored by: parent teacher association-2019 conducted in the PG and Research Department of Zoology (DST- FIST Assisted) Fatima Mata National College (Autonomous), Kollam.
10. International Conference on innovations and sustainable research in Environment and Life Sciences conducted in the PG and Research Department of Zoology (DST- FIST Assisted) Fatima Mata National College (Autonomous), Kollam, Kerala on 07-09 August; 2018.
11. International workshop on micro seeds and marvelous research organized by Post Graduate and Research Department of Botany, Fatima Mata National College (Autonomous), Kollam; 02 Nov 2018.
12. Participated and presented a paper in UGC sponsored International Seminar on Coastal Biodiversity Coastal Biodiversity Assessment, COBIA 2017 at St. Gregorios College, Kottarakara, Kerala, India.
13. Participated in the UGC Sponsored National Seminar on Blue Economy: Fostering sustainable development and Profitable Resource Utilization conducted in the PG and Research Department of Zoology Fatima Mata National College (Autonomous), Kollam Kerala; 2017.
14. Participated and presented a paper in UGC sponsored National Seminar on Bio – sciences in the genomic era sponsored by KSCST and Environment, Government of Kerala, Thiruvananthapuram; 2016.
15. Participated in the 28th Kerala Science Congress held at University of Calicut Malappuram;2016.
16. Participated and presented a paper in the National Seminar on recent challenges on the Bio - diversity conservation – University of Kerala, Kariavattom, Trivandrum; 2016.
17. Participated in Competition for PG Students National Seminar on Current trends in Life Sciences; 2015.
18. Participated in the 27th Kerala Science Congress held at Alappuzha – Cameliot Convention Centre; 2015.
19. Participated in the two- day workshop on Fundamental and applications of Bio- statistics;2014.
20. Participated in the National Seminar on Climate Change, Global Risk – Challenges and Decisions; 2011.
21. Participated in Nature Camp held by Forest and Wild life department at Thattekad Salim Ali bird Sanctuary; 2010
22. Participated as delegate and presented a paper in UGC's sponsored National conference organized by Department of Physical Education; 2010.
23. Participated in the personality development programme conducted in the Kerala State Women's Development Corp. Ltd and Centre for Management Development; 2009.

## **ONLINE - SEMINARS AND WORKSHOPS ATTENDED**

1. Participated in the online E-Quiz series on COVID-19 for Spreading Awareness: Level One (Basics) on 20 May 2020 and passed with grade "B" organized by Department of Biotechnology & Microbiology, University College of Science (UCoS), Mohanlal Sukhadia University (MLSU), Udaipur, Rajasthan.

2. Participated the Two Day National Online Seminar on “Re - inventing Quality Assurance : A Post Pandemic Guide for Teachers” organized by the Internal Quality Assurance Cell on May 19<sup>th</sup> and 20 T. K. M. College of Arts and Science, Kollam.
3. Successfully completed “BioDive”- A general Quiz in connection with International Day for Biological Diversity, organized by Department of Zoology and Biodiversity Club, St. Joseph’s College, Irinjalakuda during May 2020.
4. Completed the Entry Level of the Tide Turners Plastic Challenge Conducted by WWF, UNEP, CEE and MSF.
5. One Week Webinar Series (Certificate ID: MQPFTQ) CE000165 On Digi-Tech Teaching Learning- 2020 Attended the Webinar on “Future Effective Learning Techniques”, organized by, Sinhgad Institute of Technology, Lonavala, India, on MAY 21 , 2020.
6. Participated in the National Webinar on Biodiversity informatics and documentation through Citizen Science on the India Biodiversity Portal organized by the Department of Zoology, St.Xavier’s College for Women, Aluva on 22.05.2020.
7. Successfully completed the Online Awareness Test on Global Pandemics organized by the QUIZ CLUB, Sree Sankara Vidyapeetom College, Valayanchirangara, Perumbavoor, Kerala, India during May 2020.
8. Attending the Webinar on “Emerging Epidemic Diseases and Drug Repositioning – A way for Identifying Immediate Solution” conducted on 25-05-2020 organised by IQAC in association with Department of Zoology at FMN College, Kollam
9. Participated in the live international webinar Department of Computer Science and IQAC on 21st and 22nd May 2020. Technology organized by Department of Computer Science and MAHATMA GANDHI COLLEGE– IRITTY
10. Participated in the “e-DARSHAN Webinar Lecture Series-2020: International Webinar on Raman Spectroscopy” organized by Department of Physics & IQAC, on 1st June 2020.TK Madhava memorial college, Nangiarkulangara.
11. Participated in the International webinar on the evolving field of Oncology and Career transition conducted in the PG and Research Department of Zoology Fatima Mata National College (Autonomous), Kollam Kerala; 2017.
12. Participated the Inter National Online webinar on Innovating a new ecosystem in higher education. on June 5<sup>th</sup> 2020 at T. K. M. Institute of management, Kollam.

**ACADEMIC DUTIES ASSIGNED (EXTENSION ACTIVITIES, MENTORSHIP, ETC.  
(ACADEMIC YEAR WISE):**

1. Class tutor: Batch 2020-23
2. Human Rights Form Club Coordinator (2022 – 2023 onwards)
3. Department Scholarship Committee mentor
4. IEDC Member
5. Coordinator of Biodiversity Park (2021-22 onwards)
6. Possession Charge – 2022
7. Students Mentor – 2021-2024 Batch
8. Certificate Course Coordinator (Shell fish culture) – 2022
9. NAAC Criterion 7 – Member
10. Green Audit – IQAC Member
11. College start - up – Coordinator
12. Yellow house coordinator
13. IIC Member
14. Department wise LMS Coordinator
15. Youth festival Oppana Convener -2022
16. K-DISC Yip 4.0 - student mentor 2022
17. K-DISC Yip 4.0 - Idea Evaluator 2022
18. K-DISC Yip 5.0 - Idea Evaluator 2023
19. Class tutor: Batch 2023-26
20. Environmental club Coordinator 2023 -
21. University Youth festival General Convener 2024
22. Kerala University Research Guideship
23. NAAC Criteria 7 Head
24. Bhoomithra sena Club Coordinator
25. TKM International Journal of Multidisciplinary Approach - TIJMR Editor 2024
26. Green Energy Nodal Officer
27. Department Placement cell coordinator
28. FDSJ FORUM Coordinator
29. Handled an orientation session for Placement Cell - (Human Anatomy & Physiology) on 17 th June 2023. Via google meet <https://meet.google.com/ucz-wqeu-skp>.
30. An Invited Talk on the topic Environmental Pollution and its Mitigation measures - organized by Bhoomithra sena Club, Department of Botany, KSMBD College in the celebration of JC Bose Day on 01/12/2023.

31. K-DISC Yip 6.0 - Domain Expert July 2024
32. K-DISC Yip 6.0 - State Level Evaluator, November 2024
33. K-DISC Yip 6.0 - District Level Evaluator, November 2024
34. Handled a certificate course session by ESAARC - KSSP - (Human Evolution) on 25 th February 2025. Via google meet <https://meet.google.com/gcx-vxrn-htk>.
35. Website committe member

## **MEMBERSHIPS IN PROFESSIONAL BODIES**

1. Life Member : The Ethological Society of India
2. Life member : Indian Science Academy
2. Life Member : Kerala Sasthra Sahithya Parishath
3. Content writer : @ Ashtamudi Live news
4. Sessional Member : Indian Science Congress, 2017
5. Life Member : Indian Ecological Society for Environmental Safety and Food Security
6. Sessional Member : Marine Biological Association of India
7. Life member : WWF
8. District Co-ordinator : Nanma Maram Global Foundation
9. **Member : IPBES**
10. **IUCN Commission Member: Ecosystem Management**
11. Academic Editor, Asian Journal of Environment & Ecology (ISSN: 2456-690X)
12. Academic Editor, PeerJ - The Journal of Life & Environmental Science

## **RESEARCH COLLABORATIONS**

1. Co-ordinator - MoU with SD College Alapuzha
2. Co-ordinator - MoU with Fatima Mata National College, Kollam.
3. Co-ordinator - Collaboration with Social Forestry Southern Unit, Kollam
4. Co-ordinator - Collaboration with KSSP.

## EXTENSION/CONSULTANCY ACTIVITIES INITIATED

Sl. No.	Your Position in sequence of authors/ Role	Programme Title	Details of Activity	Date of event
1.	Participated	World Ocean Day	Beach Cleaning in Kollam Beach organized by ocean society of India cochin chapter and NCCR, Ministry of Earth Science, Govt. of India	8.06.2022
2.	Resource Person	World Environment Day	KSSP-Kollam Environment Samithi – One world one Health	5.06.2022
3.	Participated	National virtual seminar on “RECENT TRENDS IN MOLECULAR BIOLOGY”	Organized by Department of Botany & Department of NSS GOVERNMENT DEGREE COLLEGE FOR WOMEN, JAGTIAL, TELANGANA In Association with GOVERNMENT DEGREE COLLEGE GAMBHIRAOPET, RAJANNA SIRICILLA	18.05.2022
4.	Participated	State level Online Climate Leadership Training Programme	Bhoomitra sena Club, Christian College, Chengannoor in association with Directorate of Environment and Climate Change Govt of Kerala	6 – 18 March 2022
5.	Programme coordinator	Field Visit 2	Matsyafed Chitin & Chitosan Plant, Neendakara, Kollam, Kerala	05.03.2022
6.	Programme coordinator	NATIONAL SCIENCE DAY 2022	Centre for Science in Society (C-SiS), Cochin University of Science and Technology, Kochi.	28.02.2022
7.	Programme coordinator	"K-DISC Yip WEBINAR 2022	Kerala Development & Innovation Strategic Council (K-DISC)	09.02.2022
8.	Programme coordinator	UN World Wetland Day Global Talk	King Abdul-Aziz University, Jeddah.	04.02.2022
9.	Programme coordinator	WORLD WETLANDS DAY OBSERVANCE 2022	Social Forestry Extension Unit, Kollam	02.02. 2022
10.	Programme coordinator	Field Visit 1	Matsyafed Prawn Hatchery & Research Centre, Thirumullavaram, Kollam	28.12.2021
11.	Participated	Internship in Counseling psychology	Ardrum counseling center, Kollam City police	18.12.2021 to 17.01.2022

12.	<b>Course Coordinator</b>	ESCC (Environment Science certificate course)	ESARC, KSSP- Kollam	2021-2022
13.	<b>Resource Person</b>	World Aids Day Awareness Talk	NSS, Unit SFU/39, MGD HSS for boys, Kundara	01.12.2021
14.	<b>Programme coordinator</b>	Ecosystem restoration on Gandhi Jayanthi 2021	Nanma Maram Global Foundation	02.10.2021
15.	<b>Programme coordinator</b>	BCI Photo exhibition	Birds Club International	06 .10. 2021
16.	<b>Programme coordinator</b>	First aid day training workshop 2021	Department of Zoology, TKM CAS & Govt. TD college, Alappuzha	21.09.2021
17.	<b>Programme coordinator</b>	Value added products from water hyacinth	Department of Zoology, TKM CAS & P. G. Department of Zoology and Principal Investigator, Centre for Research on Aquatic Resources, S. D. College, Alappuzha	16.09.2021
18.	<b>Programme coordinator</b>	Workshop on Making of Cleansing Agents'	Department of Zoology, TKM CAS & Kerala Sasthra Sahithya Parishath, Kollam	03.09.2021
19.	<b>Participated</b>	Seven Days Faculty Development Programme	“OUTCOME BASED EDUCATION” organized by IQAC in academic collaboration with Kerala State Higher Education Council	03.08.2021 – 09-08-2021
20.	<b>Programme coordinator</b>	UN World Ocean Day 2021	PG & Research Department of Zoology, St. Gregorios College, Kottarakara	12.06.2021
21.	<b>Programme coordinator</b>	UN World Environment Day	Department of Zoology, TKM CAS and Department of Environment & Climate change	05.06.2021
22.	<b>Programme coordinator</b>	Workshop on RAAS system and vegetable cultivation	Department of Zoology, TKM CAS and Mr. Devi Chand Farm, Koottikada	26.03.2021
23.	<b>Programme Member</b>	Observance of the International Day of Elderly and Breast Cancer Awareness Month	Indian Dental association, Kollam	01/10/2019
24.	<b>Programme Member</b>	Nanma Maram Global Foundation Special Programme	Awareness Talk	July 01 <sup>th</sup> 2021
25.	<b>Programme Member</b>	Nanma Maram Global Foundation	Lahari Virudha dhinam Talk	June 26 <sup>th</sup> 2021



26.	<b>Programme coordinator</b>	UN World Oceans Day	Department of Zoology in association with Environmental Club, T.K.M College of Arts and Science, Kollam	June 12 <sup>th</sup> 2021
27.	<b>Programme Member</b>	UN World Environment Day	Department of Zoology in association with Environmental Club & IQAC, T.K.M College of Arts and Science, Kollam	June 05 <sup>th</sup> 2021
28.	<b>Programme Member</b>	An Online Carrier /Exam Orientation Programme	Department of Zoology, TKM college of Arts and science and e- Bio, Kozhikode	May 30 <sup>th</sup> 2021
29.	<b>Programme coordinator</b>	International day of observing wild life week	Department of Zoology, TKM college of Arts and science and the Kollam social forestry extension unit.	March 03 <sup>rd</sup> 2021
30.	<b>Programme coordinator</b>	Joy and Income from Pets	Department of Zoology, TKM College of Arts and Science in association with Kerala government Livestock Management and Training Center (LMTC), Kottiyam	March 19 <sup>th</sup> 2021
31.	<b>Resource Person</b>	Animal Originated Diseases	KSSP-Kollam Environment Samithi	14.02.2021
32.	<b>Resource Person</b>	Life science - practical sides	KSSP-Kollam Environment Samithi	26.12.21
33.	<b>Resource Person</b>	Physicochemical Analysis of water	KSSP-Kollam Environment Samithi	09.01.2021
34.	<b>Organizing member</b>	Evolving field of Oncology and Career transition	PG and Research Department of Zoology Fatima Mata National College (Autonomous), Kollam Kerala;	28 <sup>th</sup> May 2020

35	<b>Participated and passed the entry level assessment</b>	Tide Turners Plastic Challenge	WWF, UNEP, CEE and MSF.	25 <sup>th</sup> May 2020.
36	<b>Programme coordinator</b>	International Day of Happiness	Department of Zoology, TKM CAS and Livestock Management and Training Centre, Kottiyam	19.03.2021
37	<b>Programme coordinator</b>	World Wildlife Day Observance	Department of Zoology, TKM CAS and Kerala Forest Department- Social Forestry, Kollam	03/03/2020
38	<b>Programme Member</b>	World Cancer Day Observance	Department of Zoology, TKM CAS	04/02/2020
39	<b>Resource person</b>	Samagra Shiksha Abhiyan Sasthrapadham Science Enrichment Residential Camp, Higher Secondary Student	DCE & DGE, Govt of Kerala, TKMCAS, Kollam	24 to 25 January 2020
40	<b>Organizing committee member</b>	State International day of Elderly and Breast Cancer Month Awareness	Health Club and Department of Zoology, TKMCAS, Kollam	1 <sup>st</sup> October 2019.
41	<b>Joint convener and Editor</b>	International Seminar on Blue Growth Initiative Sustainable fishery development strategies and advanced technologies for aquaculture (BISFAA)	PG & Research Department of Zoology, FMN College, Kollam	August 7-9, 2019
42	<b>Organizing committee member</b>	World Environment Day 2019	PG & Research Department of Zoology, FMN College, Kollam sponsored by KSCSTE, Government of Kerala, Thiruvananthapuram.	14 <sup>th</sup> June 2019
43	<b>Chaired a session and organizing committee member</b>	World Wet Land Day 2019,	PG & Research Department of Zoology, FMN College, Kollam Sponsored by KSCSTE, Government of Kerala, Thiruvananthapuram.	08 Feb 2019

44.	<b>Organizing committee member</b>	Kottamkara Grama Panchayath total plastic eradication programme	TKM College of Arts and Science (Health club, NSS unit & Dept. of Zoology) & Kottamkara Grama Panchayath	24 & 25 February, 2020
45.	<b>Resource Person and Handled a Practical Session</b>	Workshop on practical training higher secondary teachers in biology - 'Disha'	PG & Research, Department of Zoology, FMN College, Kollam	15-16 February, 2019.

### **PARTICIPATION IN BOARD OF STUDIES/ACADEMIC COUNCIL/CURRICULUM RE-STRUCTURING/SYLLABUS DEVELOPMENT, ETC.**

- Participated as a member of the Board of Studies (BOS) for framing the syllabus and curriculum for the certificate courses offered by the Department of Zoology, NSS College, Pandalam during the academic year 2023-24.
- Participated in Board of Studies, Curriculum restructuring and Syllabus development (2018 Admission onwards) in Fatima Mata National College (Autonomous) during 2018. \ <http://zoology.fmnc.ac.in/programmes/>

### **Academic Trainings (like Flair)**

- Participated in FYUGP Question bank preparation training programme conducted by University of Kerala at TKM College of Arts and Science, Kollam during 19<sup>th</sup> February 2025.
- Participated in Question bank preparation training programme conducted by Fatima Mata National College, during August 2019. [http://148.72.214.42:8080/secure/questionbank/syllabus/bank\\_selection\\_view.xhtml](http://148.72.214.42:8080/secure/questionbank/syllabus/bank_selection_view.xhtml)

### **Participated in MOOC ONLINE COURSE**

Making Powerful Multimedia Presentations – 6 weeks' duration, from 2 May 2017 to June 2017.

## STUDENTS SUPERVISION

- Number of dissertations guided for Under graduate students: 08
- Number of dissertations guided for Post graduate students: 10
- Number of Collaborative dissertations guided for Postgraduate students: 03

Sl No	Title	UG/PG	Year
1.	A study on the cytotoxicity and mitotic activity of heavy metals (Cu, Zn) using <i>Allium cepa</i> root tip chromosome aberration assay	PG	2011
2.	Gastropod diversity along the inter-tidal coast of Neendakara, Kollam, Kerala	UG	2014
3.	Plankton diversity along the coast of Neendakara, Kollam, coast of Kerala, south west India	PG	2015
4.	Zooplanktons as candidate bio indicators of Trace metals along the coast of Kollam, Kerala, India	PG	2016
5.	Macro Benthic diversity of Ayiramthengu mangroves	PG	2019
6.	Comparison of hydrological parameters along the T.S canal in relation with microbial content	PG	2019
7.	Comparison of Sedimentological parameters along the T.S canal in relation with microbial content	PG	2019
8.	Variation and Distribution of macrobenthos in relation with environmental parameters along Ayiramthengu Mangroves	PG	2019
9.	Gastropod diversity along the inter-tidal coast of Kollam, Kerala	UG	2019
10.	Comparative study on Metazoan parasites in Two Edible fish species	UG	2019
11.	A comparative study of trace metal concentration in the muscle tissue of gray mullet ( <i>Mugil cephalus</i> )	PG	2020
12.	Rearing, maintenance, and ranching of a fresh water gastropod <i>Pila scutata</i> (Mousson, 1848)	UG	2020
13.	Macro benthic diversity of Ayiramthengu mangroves	PG	2020
14.	Rearing, Maintenance, proximate and mineral composition of the fresh water snail <i>Pila scutata</i> (Mousson, 1848)	PG	2020
15.	A comparative study on proximate analysis and nutritional status of fresh water molluscan species with marine molluscan species	PG	2021
16.	Gastropod diversity along the inter-tidal coast of Kavaratti Island, Lakshadweep, India	UG	2021
17.	Gastropod diversity along the inter-tidal region of Ashtamudi Lake, Kollam, Kerala	PG	2021

18.	A Comparative Study on Proximate Analysis and Nutritional Status of Fresh Water Molluscan Species with Marine Molluscan Species	PG	2021
19.	Effects of Feeding Live Feeds Artemia nauplii and Moina macrocopa (Straus, 1820) as Supplementary Feed on the Growth of Nile Tilapia Fingerlings, Oreochromis niloticus (Linnaeus, 1758)	UG	2022
20.	Preliminary Examination of Gut Microbiota of Pseudoetropus maculatus from Kadinamkulam Lake, Thiruvananthapuram, Kerala	UG	2023
21.	Diversity and distribution of earthworms in relation to soil factors of Kollam district, Kerala, India	UG	2024

## CO & EXTRACURRICULAR ACTIVITIES

1. Interested in participating for Health Awareness, Mental awareness programmes.
2. Interested in organizing after science sessions to provide students with additional help.
3. Employed 'Problem of the day' to reinforce previously taught skills, prepare students and encourage making connections across the curriculum.
4. Implemented review activities as class begin to utilize each available teaching minute.
5. Facilitated open tutoring– Monday to Friday for any student who need extra help.
6. Regular mentoring/Counselling for students who need extra support.

## REFERENCES

<b>Dr. Mary Teresa P Miranda</b> Associate Professor & HOD(Retd) Department of Zoology Fatima Mata National College (Autonomous) Kollam – 1 <b>Mob: 9495974828</b>	<b>Dr. G. Prasad</b> Associate Professor & HOD Department of Zoology University of Kerala, Kariavattom, Thiruvananthapuram E-mail: probios1@gmail.com <b>Mob: 9497254158</b>
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## Declaration

I hereby declare that all statements mentioned above are complete, true and correct to the best of my knowledge and belief.