

## REMISHA O, PhD



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- DOB: 21-09-1990
- Nationality: Indian
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### PROFESSIONAL SUMMARY

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As a detail-oriented fisheries researcher, possess strong multitasking skills and thrive as a collaborative team player. Dedicated to contributing to innovative and impactful research endeavors within the field of fisheries

### AREAS OF EXPERTISE

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1. **Fish Nutrition:** Proficient in studying the nutritional requirements of fish species and diagnosing diseases affecting fish populations. Skilled in designing and implementing nutritional plans to optimize fish health and growth.
2. **Fish Pathology:** Experienced in identifying and treating fish diseases through pathological analysis. Experience in molecular pathology, histopathology, genotoxicity, and biochemical and enzyme analysis of fish.
3. **Breeding and Seed Production of Marine and Freshwater Finfishes, Shellfishes, and Ornamental Fishes:** Extensive experience in the breeding and propagation of various marine and freshwater fish species, shellfish, and ornamental fishes. Capable of managing breeding programs, conducting spawning, and overseeing larval rearing and feeding to ensure successful seed production
4. **Fish Biochemistry, Quality Assurance, and Microbiological Analysis:** Proficiency in conducting biochemical analysis of fish tissues and products to assess nutritional content and quality parameters. Skilled in quality assurance protocols to maintain product integrity and safety. Experienced in microbiological analysis to detect and prevent contamination in fish products and aquatic environments
5. **Isolation, Identification, and Culture of Marine and Freshwater Phytoplankton and Zooplankton:** Specialized in isolating, identifying, and cultivating marine and freshwater phytoplankton and zooplankton for diverse applications in aquaculture, research, and ecosystem management. Proficient in optimizing culture conditions to promote robust growth and enhance nutritional quality, thereby contributing to sustainable practices and the improvement of aquatic environments
6. **Water Quality Analysis:** Expertise in assessing water quality parameters in aquatic environments to ensure optimal conditions for fish health and growth. Skilled in conducting water quality tests, interpreting results, and implementing corrective measures to maintain suitable environmental conditions for fish cultivation

## MEMBERSHIP IN SCIENTIFIC SOCIETY

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1. Member of 'OceanExpert' - 'A directory of Marine and Freshwater Professionals' at UNESCO/IOC Project Office for IODE, Belgium
2. Member of 'Women in Ocean Science C.I.C', 'A non-profit organisation, London, UK
3. Member of 'The Marine Biological Association' The Laboratory, Citadel Hill Plymouth, UK
4. Member of 'The Coral Reef Research Hub'- 'Career Development and Social Networking for Coral Reef Scientists and Professionals', The Valley, Caribbean Island, Anguilla

## MEMBERSHIP IN RESEARCH PLATFORMS

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1. Member in 'ResearchGate'
2. Member in 'Google Scholar'
3. Member in 'Academia.edu'
4. Member in 'Semantic Scholar'
5. Member in Google Groups 'coastal\_list'
6. Member in Google Groups 'YETI' – Young Ecologist Talk & Interact

## EXPERIENCE, EDUCATION, AND TRAINING

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### JOB EXPERIENCE

#### 1. ASSISTANT PROFESSOR (ON CONTRACT)

*(25/07/2024 – continuing)*

Department of Aquaculture, M.E.S Asmabi College, Kodungallur, Thrissur, (Calicut University), Kerala, India

#### 2. PROJECT SCIENTIST

*(09/01/2023 - 08/01/2024)*

Fisheries Research Station, Kerala University of Fisheries and Ocean Studies, Puduveypu, Kochin, Kerala, India

**Principal Investigator-** Dr. Linoy Libini, Assistant Professor & Station Head  
Fisheries Station, Kerala University of Fisheries and Ocean Studies  
Puduveypu, Kochin, Kerala, India.

#### Experience:

- Breeding and seed production of marine ornamental fishes, including clownfish (*Amphiprion* sp.), and commercially important cultured finfishes like Mullet, Seabass, and Red snapper. Implementation of management techniques and fish culturing expertise
- Breeding, seed production, and larval rearing of mud crab (*Scylla* sp.) and green mussel (*Perna Viridis*)
- Isolation, identification, and culture of phytoplankton species such as *Chaetoceros calcitrans*, *Thalassiosira* sp., and *Skeletonema* sp., and dinoflagellates like *Isochrysis*

*galbana*, *Pavlova marina*, *Dunaliella* sp., *Chlorella marina*, *Nanochloropsis salina*, and *Tetraselmis* sp. Also, cultivation of zooplankton varieties, including copepod (*Oithona* sp., *Tisbe* sp., and *Apocyclops cmfri*) and rotifers (*Brachionus plicatilis*), with emphasis on diversity study and intensive rearing of *Artemia* for fish larvae feeding

- Implementation of conservation and management strategies for mangrove plant species such as *Bruguiera cylindrica*, *Avicennia officinalis*, *Avicennia marina*, *Kandelia candel*, *Bruguiera gymnorrhiza*, and *Sonneratia* sp.
- Preparation of comprehensive work reports and financial reports

### **3. FARM TECHNICIAN**

**(12/04/2022 - 20/07/2022)**

Regional Executive Office, North Zone, Agency for Development of Aquaculture Kerala (ADAK), Government of Kerala, Kannur, Kerala, India

#### **Experience:**

- Engaged in farming, hatchery production, and nursery rearing of finfish and shellfish. Proficient in preparing feeds, feeding fishes, and operating feeding equipment. Regularly monitored daily water quality of brood stock, rearing, and nursery ponds
- Experienced in cage culture, recirculatory aquaculture systems, aquaponics, and biofloc technology
- Skilled in selecting fish for brood stock, maintaining and monitoring fish behavior, appearance, and health. Proficient in fish sampling, disease identification, and parasite management, including the application of medicinal substances
- Proficient in harvesting fish seeds (fry and fingerling), grading fish by size, and packing for transport
- Expertise in inventory and quality control, with a focus on accurate reporting, record-keeping, and document management. Experienced in supervising staff, including approving leave and time reports

### **4. ENUMERATOR IN MARINE DATA COLLECTION AND STUDY OF JUVENILE FISHING**

**(17/11/2020 - 16/11/2021)**

Deputy Directorate of Fisheries, Government of Kerala, Kannur District, Kerala, India

#### **Experience:**

- Assessed adverse impacts of fishing methods on the marine environment
- Conducted field research and surveys to collect data and fish samples from various landing centers, proficient in species identification
- Performed resource protection duties, including monitoring fishing activities for compliance with laws and regulations, and maintaining fishing gear and equipment.
- Generated awareness among fishermen for fish conservation and marine environment through organizing various programs
- Conducted patrols by truck or on foot during the trawl ban period to prevent juvenile fish catch
- Analysed stock assessment data and prepared monthly reports for review by the Deputy Director of Fisheries

## 5. PROJECT ASSISTANT FOR THE PROMOTION OF RICE CUM SHRIMP FARMING IN KAIPAD LANDS

(17/04/2015 - 19/06/2015)

Agency for Development of Aquaculture Kerala (ADAK), Government of Kerala, Kannur, Kerala, India

### Experience

- Provided technical support and advisory services to rice cum shrimp farmers in the Kaipad region, focusing on sustainable aquaculture practices and ecosystem management
- Assisted in field data collection and research activities focused on rice cum shrimp farming systems in Kaipad lands, supporting interdisciplinary studies on agriculture, aquaculture, and ecology
- Conducted surveys and interviews with local farmers and community members to gather insights into traditional Kaipad farming practices, knowledge systems, and socio-economic dynamics
- Participated in water quality monitoring, sediment analysis, and ecological surveys to assess the environmental health and biodiversity of Kaipad wetlands and adjacent habitats

## PhD RESEARCH

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Duration: **December 31, 2014 - December 3, 2020**

Institution: School of Industrial Fisheries, Cochin University of Science and Technology, Kochi, Kerala, India

### Experience:

- **Conducted Data Collection, Surveys, Questionnaire Administration, and Data Analysis:** Gathering primary data through various methods such as field surveys, questionnaire administration, and interviews. Data collection includes information on aquaculture practices, water quality parameters, fish health, and other relevant factors
- **Conducted Research on Toxicological Studies of Nile Tilapia (*Oreochromis niloticus*):** Investigated the effects of toxic substances on Nile tilapia, a commonly farmed fish species. Toxicological studies focused on assessing the impact of fungal toxin, (aflatoxin) on fish health, growth, and reproductive success. Research methods include exposure experiments, dose-response studies, and histopathological analysis to evaluate tissue damage and physiological responses to aflatoxin
- **Conducted Morphological and Molecular Identification of *Aspergillus flavus* Species and Detected and Quantified Aflatoxins Produced by the Species:** Identifying and characterizing *Aspergillus flavus*, a fungus known for producing aflatoxins, toxic compounds that can contaminate food and feed. Morphological identification involves examining the physical characteristics of fungal colonies and structures under a microscope. Molecular identification techniques such as PCR (Polymerase Chain Reaction) used to confirm species identity. Detection and quantification of aflatoxins involve analytical methods to measure toxin levels in samples

- **Conducted Studies on Water Quality Parameters and Growth of Nile Tilapia in Culture Conditions:** Water quality parameters include temperature, dissolved oxygen, pH, ammonia, nitrite, and nitrate levels, among others. By monitoring these parameters over time and correlating them with fish growth rates
- **Conducted Haematological, Histopathological, and Genotoxicity Studies of Different Tissues of Nile Tilapia:** Blood parameters, tissue structures, and genetic damage in Nile tilapia to assess health status and potential risks. Haematological studies evaluate blood cell counts, and other blood parameters as indicators of physiological health. Histopathological analysis involves examining tissue samples under a microscope to identify abnormalities or lesions. Genotoxicity studies assessed DNA damage caused by exposure to aflatoxin.
- **Conducted Biochemical and Antioxidant Enzyme Studies in Different Tissues of Nile Tilapia:** Assessed protein, lipid, carbohydrate, and mineral content to understand nutritional composition and metabolic processes. Antioxidant enzyme studies investigated the fish's defence mechanisms against oxidative stress, which can impact overall health and disease resistance

## EDUCATION

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### Graduation:

- **'Zoology,'** Pazhassi Raja Nair Service Society College, Mattanur, Kannur University (2008-2011)
  - First class with Distinction

### Post-Graduation (M.Sc.):

- **'Industrial Fisheries,'** School of Industrial Fisheries, Cochin University of Science and Technology (2011-2013)
  - First class with distinction

### Equivalency

- M.Sc. Degree in 'Industrial Fisheries' is equivalent to M.Sc. Degree in 'Aquatic Biology and Fisheries' of University of Kerala

### MPhil:

- **'Fisheries Science,'** School of Industrial Fisheries, Cochin University of Science and Technology (2013-2014)
  - First class with distinction

### PhD:

- **'Aquaculture (Fish pathology),'** School of Industrial Fisheries, Cochin University of Science and Technology (2015-2020)
  - Awarded on July 2021

## ATTENDED NATIONAL AND INTERNATIONAL TRAININGS

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1. Two days of hands-on training in the **'Induced breeding of freshwater carps'** at the Government Fish Seed Farm, Fisheries Department, Peechi, Thrissur, Kerala.
2. Three days National training on **'Isolation, identification, and culture of microalgae and live feeds for aquaculture'** at Central Marine Fisheries Research Institute (CMFRI), Kochi, Kerala

3. Four days hands on Training programme on '**Fundamentals of GIS and Remote Sensing**' (QGIS, SAGA GIS, Google Earth Pro, GIS, GPS, worked with various spatial models), conducted by Geospatial Science and Technology Division, Integrated Rural Technology Centre (IRTC), Palakkad
4. '**On-board vessel training for trawling fishes in offshore**' areas organized by Central Institute of Fisheries Nautical and Engineering Training (CIFNET), Cochin.

#### **ATTENDED TRAINING COURSES**

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1. Two-month training in '**Seafood processing and quality control**' at 'Bhatsons Aquatic Products', Aroor, Alappuzha. Training included microbiological analysis and documentation
2. Four-month short-term course in '**Vessel engineering, seamanship, and navigation**' at Central Institute of Fisheries Nautical and Engineering Training (CIFNET), Cochin
3. Training on '**Breeding and rearing of culture fishes and marine and freshwater ornamental fishes**' at School of Industrial Fisheries, Cochin University of Science and Technology
4. Completion of '**One cycle of hatchery seed production of Scampi, *Macrobrachium rosenbergii***' at School of Industrial Fisheries, Cochin University of Science and Technology
5. Training for various types of 'fishing gear making' at School of Industrial Fisheries, Cochin University of Science and Technology

#### **NATIONAL ELIGIBILITY TEST (NET) FOR TEACHING**

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1. "**Aquaculture**" in 2016 by Agricultural Scientist Recruitment Board (ASRB), Indian Council of Agricultural Research (ICAR), New Delhi
2. "**Fish Processing Technology**" in 2018 by Agricultural Scientist Recruitment Board (ASRB), Indian Council of Agricultural Research (ICAR), New Delhi

#### **TEACHING EXPERIENCE**

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1. Working as a '**Guest Lecturer**', providing both theoretical and practical instruction to graduate students in Aquaculture at 'M.E.S. Asmabi College', Vemballur, Thrissur.
2. Taught theory classes and assisted in conducting practical sessions for postgraduate students in Aquaculture, Biochemistry, Quality Assurance, and Fish Processing Technology at the School of Industrial Fisheries, Cochin University of Science and Technology, during the 2015-2017 PhD research period.

#### **COMPUTER KNOWLEDGE**

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- Experience in:
  - Databases and queries (**R, SYSTAT, Microsoft Excel, SPSS**)
  - Biological data analysis (**Origin, Mega X, Primer, Match**)
  - GIS and Remote Sensing (**QGIS, SAGA GIS, Google Earth Pro, GIS and GPS**)
  - Computer programming - **C, C++**
  - Microsoft Office (**Microsoft word, Microsoft Excel, Microsoft PowerPoint**)

## REVIEWER IN ACADEMIC JOURNALS

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- Reviewer in 'Asian Journal of Fisheries and Aquatic Research'
- Reviewer in 'Plant Cell Biotechnology and Molecular Biology'

## PROJECTS UNDERTAKEN

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### PhD:

Title: **‘Calcium bentonite clay mineral as a dietary supplement in reducing aflatoxin B1 toxicity and its effect on growth, biochemical, and histopathological changes in Nile tilapia, *Oreochromis niloticus* (Linnaeus, 1758)’**

- Guide: Prof (Dr) Saleena Mathew (Retd), School of Industrial Fisheries, Cochin University of Science and Technology, Cochin, Kerala, India

### MPhil:

Title: **‘The effect of minerals application in smoked, dried fishes, and fish feed for preventing aflatoxin contamination’**

- Guide: Prof (Dr) Saleena Mathew, School of Industrial Fisheries, Cochin University of Science and Technology, Cochin, Kerala

### MSc:

Title: **‘Shelf-life extension of Indian mackerel (*Rastrelliger kanagurta*) by dip treatment with potassium sorbate during chill storage’**

- Guide: Dr. Biji K. B., Lecturer, School of Industrial Fisheries, Cochin University of Science and Technology, Cochin, Kerala

Title: **‘Socioeconomic organization in mussel culture,’** in Kannur

- Guide: Dr. K. T. Thomson, Professor, School of Industrial Fisheries, Cochin University of Science and Technology, Cochin, Kerala

### ATTENDED NATIONAL AND INTERNATIONAL CONFERENCES:

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1. Webinar on **‘Comprehensive Aquaculture Health Program Standards (CAHPS)’** by Dr. Kathleen Hartman, U.S. Department of Agriculture’s Animal and Plant Health Inspection Service (APHIS), Veterinary Services (VS), in collaboration with the National Aquaculture Association (NAA), May 2024
2. International Colloquium of **‘Microalgae and Diatom Research’**, conducted by 'Liquid Trees', an International research organization and environmental health service, Uttar Pradesh, India, 8th May 2024
3. **‘International Fisheries Congress and Expo’** held from January 12-14, 2024, Kerala University of Fisheries and Ocean Studies (KUFOS), Kochi.
4. Webinar on **‘Young Marine Biologist Summit: Driving Change,’** Marine Biological Association, Plymouth, UK, 2023
5. Webinar on **‘Women, Fishing, and Aquaculture’** conducted by Sector Pesquero, Ministry of Agriculture, Fishing and Food (MAPA), Association Andaluza de Mujeres del Sector Pesquero (ANDMUPES), and the Murciano Institute of Research and Development Agrario and Medioambiental (IMIDA), CETENMA - Technological Center for Energy and Environment, Portugal, in 2023

6. International Conference on **‘Impact of Climate Changes on Hydrological Cycle, Ecosystem, Fisheries, and Food Security**, 2020, School of Industrial Fisheries, Cochin University of Science and Technology (CUSAT), Kochi
7. National Level Seminar on **‘Prajna: Insight into the Brain’** at the Department of Biotechnology, Cochin University of Science and Technology (CUSAT), Kochi, 2018.
8. International Seminar on **‘Research Impact, Publishing, and Profiling,’** Kerala Library Association, and Cochin University of Science and Technology (CUSAT), Kochi.

#### **ATTENDED NATIONAL AND INTERNATIONAL WORKSHOPS**

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1. The three-day International (16-18, January, 2025) Workshop on **‘Aquaculture Medicine and Aquatic Animal Health Management in Asia-Pacific’**: Status, Constraints, and Way Forward (AQUAMAP-25) organized by NCAAH, CUSAT.
2. Online international workshop on **‘ZEBRABLOOM- Zebrafish nutritional requirements and dietary protocols and Induction of target metabolites in microalgae for zebrafish nutrition’**, conducted by University of Algarve, Campus Gambelas, Complexo Pedagógico (CP) - Anfiteatro B - Algarve, Portugal, in 2023
3. National Level Workshop on **‘Rebuilding Kerala: New Paradigms for the Development of Fisheries Sector (Rebuild Fish)’** at School of Industrial Fisheries, Cochin University of Science and Technology (CUSAT), Kochi, 2018
4. National Level Workshop on **‘Nurturing Entrepreneurship in the Field of Biotechnology’** at Department of Biotechnology, Cochin University of Science and Technology (CUSAT), Kochi, 2018
5. National Training Workshop on **‘Modern Statistical Tools in Fisheries Application of SYSTAT-13’** at School of Industrial Fisheries, Cochin University of Science and Technology (CUSAT), Kochi, 2015
6. One-day workshop on **‘Statistical Method for Analysis of Business Data’** at the Department of Statistics, Cochin University of Science and Technology (CUSAT), Kochi, 2015
7. National Workshop on **‘Ensuring Quality in Scientific Research’** at School of Industrial Fisheries, Cochin University of Science and Technology (CUSAT), Kochi, 2015.
8. Advanced Level Workshop on **‘International Trade in Fish Products’** at School of Industrial Fisheries, Cochin University of Science and Technology (CUSAT), Kochi, 2015
9. Attended and organized national workshop on **‘Seafood Safety and Trade’** at School of Industrial Fisheries, Cochin University of Science and Technology (CUSAT), Kochi, 2013

#### **LABORATORY EXPERIENCE**

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##### **Aquaculture Experience:**

- Proficient in live feed culture, including marine phyto and zooplankton culture
- Experienced in breeding, seed production, and rearing of freshwater and marine finfish and shellfishes

- Skilled in marine and freshwater ornamental fish breeding and seed production
- Proficient in analysing growth parameters of aquaculture species
- Conducted water quality analysis to ensure optimal conditions for aquaculture
- Experienced in fish feed preparation and quality analysis
- Proficient in soil analysis relevant to aquaculture practices
- Conducted heavy metal analysis to ensure the safety and quality of aquaculture products

**Fish Processing Technology and Quality Assurance:**

- Proficient in preprocessing techniques of fish, including filleting, gutting, and splitting.
- Experienced in various processing techniques such as freezing, canning, drying, and salting
- Conducted proximate composition analysis of fish, including moisture, crude fat, protein, ash, fiber, and carbohydrate
- Skilled in quality analysis of fish, including total volatile nitrogen, alpha-amino nitrogen value, thio-barbituric acid, non-protein nitrogen value, peroxide value, free fatty acid value, etc
- Experienced in value addition of fish through products like fish ball, fish cutlet, fish pickle, etc
- Proficient in utilizing fish by-products such as fish meal, fish oil, chitin-chitosan, glucosamine, fish ensilage, etc
- Conducted sensory evaluation of fish to assess quality attributes

**Biochemical Analysis:**

- Proficient in estimation and quantification of biological compounds
- Conducted biochemical analysis of fish tissue extracts
- Skilled in lipid oxidation and antioxidant enzymes analysis

**Microbiological Analysis:**

- Experienced in sterilization techniques
- Proficient in preparation of various media
- Skilled in preparation and maintenance of pure cultures
- Conducted isolation and purification of microbes
- Experienced in media optimization
- Conducted morphological analysis of micro and macro-organisms

**Molecular Analysis:**

- Proficient in DNA extraction
- Skilled in PCR amplification
- Experienced in sequencing

**Histopathological and Haematological Studies:**

- Conducted histopathological and haematological studies

**Genotoxicity Studies:**

- Conducted genotoxicity studies such as single cell gel electrophoresis (Comet assay)

**INSTRUMENTS HANDLED**

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- Proficient in handling High Pressure Liquid Chromatography (HPLC)
  - Experienced in operating UV-Visible Spectrophotometer
  - Skilled in using Atomic Absorption Spectrophotometer (AAS)
  - Familiar with PCR units for molecular analysis

- Proficient in Electrophoresis techniques
- Experienced in Gas Chromatography
- Skilled in Paper Chromatography and Thin Layer Chromatography
- Proficient in both electronic and mechanical Pipetting techniques
- Experienced in operating Centrifuge units
- Familiar with Lyophilizer for freeze-drying
- Proficient in Microscopy, including Compound, Stereo, and Inverted microscopes
- Experienced in using Texturometer for texture analysis
- Skilled in operating PH Meter for pH analysis

## PUBLICATIONS

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### JOURNAL ARTICLES:

1. Mahesh, V., Shiju, P., Remisha, O., Abhijith, R., Asokan, P. K., & Vinod, K. (2022). **‘Deformity in *Maculabatis gerrardi*’**, *Marine Fisheries Information Service, Technical and Extension Series, Central Marine Fisheries Research Institute (251)*, 42-42
2. Olokaran, R., & Mathew, S. (2020). **‘In vitro Detoxification of Aflatoxin B1 by Calcium Bentonite Clay Supplementation in Aflatoxigenic Mould Contaminated Feeds for Nile Tilapia, *Oreochromis niloticus* (Linnaeus, 1758)’**. *Asian Journal of Fisheries and Aquatic Research*, 10(1), 1-18
3. Remisha Olokaran, Saleena Mathew, Rosamma Philip, Bhavya Kachiprath, Manomi Sarasan (2019). **‘Molecular identification of aflatoxigenic *Aspergillus flavus* isolated from finished feed for farmed Nile tilapia, *Oreochromis niloticus* (Linnaeus, 1758)’**. *International Journal of Fisheries and Aquatic Research*, 4(4), 20-25
4. Remisha Olokaran, Saleena Mathew, Jubisha Alakkatt and Santu Kuzhikandathil Sunny (2019). **‘Isolation and morphological identification of aflatoxigenic *Aspergillus flavus* in finished feed for farmed Nile tilapia, *Oreochromis niloticus* (Linnaeus, 1758)’**. *International Journal of Fisheries and Aquatic Studies*, E-ISSN: 2347-5129, P-ISSN: 2394-0506
5. Remisha. O and Saleena Mathew (2017). **‘Novel and innovative method for preventing and reducing aflatoxin production in smoked fish from toxigenic fungi by using clay mineral dip treatment.’** *International Journal of Applied and Pure Science and Agriculture (IJAPSA)*, 3(8), e-ISSN: 2394-5532, p-ISSN: 2394-823X

### ABSTRACTS:

1. **Protective Effect of Volcanic Calcium Bentonite Clay as Natural Adsorbent to Mitigate Aflatoxin B1 Toxicity in Nile Tilapia (*Oreochromis niloticus*) (Linnaeus, 1758) Diets: Impacts on Growth, Feed Utilization, and Bioaccumulation**, Remisha Olokaran<sup>1\*</sup> and Saleena Mathew<sup>1</sup>, three-day International (16-18, January, 2025) Workshop on ‘Aquaculture Medicine and Aquatic Animal Health Management in Asia-Pacific’: Status, Constraints, and Way Forward (AQUAMAP-25) organized by NCAAH, CUSAT
2. **‘Lunar periodicity on the spawning seasonality, fecundity, and larval viability of clownfish (*Amphiprion percula*) in captivity,’** Remisha, O., M. S. Lakshmi., D. Devi, and

C. Linoy Libini. Presented at the International Fisheries Congress and Expo held from January 12-14, Kerala University of Fisheries and Ocean Studies, Panangad

3. **‘Application of Potassium sorbate dip treatments for the extension of shelf life of Indian Mackerel (*Rastrelliger kanagurta*) during chill storage’**, Remisha. O, Biji. K. B, Gupta. S. K, James, J.P, and Mathew, S. School of Industrial Fisheries, CUSAT, Cochin. Presented at the International Symposium on ‘Greening Fisheries’ conducted by Central Institute of Fishery Technology and Society for Fishery Technologists, India, Kochi
4. **‘Shelf-life extension of Indian mackerel (*Rastrelliger kanagurta*) by dip treatment with Sodium acetate during chill storage,’** James, J.P., Biji, K.B, Remisha. O, Gupta, S.K, and Mathew, S. School of Industrial Fisheries, CUSAT, Cochin. Presented at the International Symposium on ‘Greening Fisheries’ conducted by Central Institute of Fishery Technology and Society for Fishery Technologists India, Kochi
5. **‘Effect of chitosan coating on the quality of Indian mackerel during chill storage,’** S.K. Gupta, Biji, K.B, James, J.P, Remisha, O, and Mathew, S. School of Industrial Fisheries, CUSAT, Cochin. Presented at the International Symposium on ‘Greening Fisheries’ conducted by Central Institute of Fishery Technology and Society for Fishery Technologists India, Kochi

#### **POSTERS:**

1. **Protective Effect of Volcanic Calcium Bentonite Clay as Natural Adsorbent to Mitigate Aflatoxin B1 Toxicity in Nile Tilapia (*Oreochromis niloticus*) (Linnaeus, 1758) Diets: Impacts on Growth, Feed Utilization, and Bioaccumulation**, Remisha Olokkan<sup>1\*</sup> and Saleena Mathew<sup>1</sup>, three-day International (16-18, January, 2025) Workshop on ‘Aquaculture Medicine and Aquatic Animal Health Management in Asia-Pacific’: Status, Constraints, and Way Forward (AQUAMAP-25) organized by NCAAH, CUSAT
2. **‘Lunar periodicity on the spawning seasonality, fecundity, and larval viability of clownfish (*Amphiprion percula*) in captivity’**, Remisha, O., M.S. Lakshmi., D. Devi, and C. Linoy Libini. Presented at the International Fisheries Congress and Expo held from January 12-14, 2024 Kerala University of Fisheries and Ocean Studies, Panangad
3. **‘Application of Potassium sorbate dip treatments for the extension of shelf life of Indian Mackerel (*Rastrelliger kanagurta*) during chill storage’**, Remisha. O, Biji.K.B, Gupta.S.K, James, J.P, and Mathew, School of Industrial Fisheries, CUSAT, Kochi
4. **‘Shelf-life extension of Indian mackerel (*Rastrelliger kanagurta*) by dip treatment with Sodium acetate during chill storage’**, James, J.P., Biji, K.B, Remisha. O, Gupta, S.K, and Mathew, S. School of Industrial Fisheries, CUSAT, Cochin. Presented at the International Symposium ‘Greening Fisheries’ conducted by Central Institute of Fishery Technology and Society for Fishery Technologists, India, Kochi

#### **CONFERENCE PRESENTATION:**

1. **‘Mineralogical and Adsorptive Properties of Calcium Bentonite Clay Mineral as Aflatoxin Enterosorbents in Fish Feed,’** Remisha Olokkan, Saleena Mathew Presented at the International Conference on “Impact of Climate changes on Hydrological cycle, Ecosystem, Fisheries and Food security” held from Feb 11-14, 2020, School of Industrial Fisheries, CUSAT, Cochin

## GENBANK SUBMISSIONS:

1. *Aspergillus flavus* isolate TF1 internal transcribed spacer 1, partial sequence; ACCESSION MK431232, Remisha, O., Saleena, M., Rosamma, P., Bhavya, K., and Manomi, S
2. *Aspergillus flavus* isolate TF2 internal transcribed spacer 1, partial sequence; ACCESSION MK431233, Remisha, O., Saleena, M., Rosamma, P., Bhavya, K., and Manomi, S
3. *Aspergillus flavus* isolate TF3 internal transcribed spacer 1; ACCESSION MK431234, Remisha, O., Saleena, M., Rosamma, P., Bhavya, K., and Manomi, S
4. *Aspergillus flavus* isolate TF4 internal transcribed spacer 1, partial sequence; ACCESSION MK431235, Remisha, O., Saleena, M., Rosamma, P., Bhavya, K., and Manomi, S
5. *Aspergillus flavus* isolate TF5 internal transcribed spacer 1, partial sequence; ACCESSION MK431236, Remisha, O., Saleena, M., Rosamma, P., Bhavya, K., and Manomi, S
6. *Aspergillus flavus* isolate TF6 internal transcribed spacer 1, partial sequence; ACCESSION MK431237, Remisha, O., Saleena, M., Rosamma, P., Bhavya, K., and Manomi, S
7. *Aspergillus flavus* isolate AF7 internal transcribed spacer 1, partial sequence; ACCESSION MK431238, Remisha, O., Saleena, M., Rosamma, P., Bhavya, K., and Manomi, S
8. *Aspergillus flavus* isolate AF8 internal transcribed spacer 1, partial sequence; ACCESSION MK431239, Remisha, O., Saleena, M., Rosamma, P., Bhavya, K., and Manomi, S

## PROFESSIONAL REFERENCES:

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### 1. Dr. Saleena Mathew

Professor (Retd), Fish Processing Technology  
School of Industrial Fisheries, Cochin University of Science and Technology  
Kochin, Kerala, India  
Email: [Saleenam55@gmail.com](mailto:Saleenam55@gmail.com)  
Phone: +91-9961838008

**Relationship -PhD Supervising Guide**

### 2. Dr. John Mohan

Assistant Professor (Retd)  
School of Industrial Fisheries, Cochin University of Science and Technology  
Kochin, Kerala, India  
Email: [johnmohan9@gmail.com](mailto:johnmohan9@gmail.com)  
Phone: +91-9447433643

**Relationship - MSc Teacher and Training Guide**

### 3. Dr. Biji K.B

Junior Technical Officer (QC)

Marine Products Export Development Authority (MPEDA)

Kochi, Kerala, India

Email: [bijikadavil@gmail.com](mailto:bijikadavil@gmail.com)

Phone: +91-9745614569

**Relationship - MSc Project Guide**

**4. Dr. Linoy Libini**

Assistant Professor & Station Head

Fisheries Station, Kerala University of Fisheries and Ocean Studies

Puduvaypu, Kochin, Kerala, India

Email: [linoylibini@gmail.com](mailto:linoylibini@gmail.com)

Phone: +91-9497361061

**Relationship - Principal Investigator- Multispecies Hatchery Project**

**DECLARATION**

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I Remisha, O. hereby declares that all the statements made in this resume correct to the best of my knowledge and belief. The original copy of the certificates will be produced on demand.

**Remisha O, PhD**

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