

## **MATHEN MATHEW**

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Technical Officer at the Department of Meat and Marine Sciences, Central Food Technological Research Institute (CFTRI), Mysore, a constituent lab. under the Council of Scientific and Industrial Research, Govt. of India. The work involves research and development of food particularly, in meat, fish and poultry products in addition to their value-addition and efficient utilisation of their by-products.

*(January 2013 – till date)*

### **Previous Employment**

- Junior Technical Officer at the Marine Products Export Development Authority(MPEDA), Quality Control Lab., Bhimavaram, Andhra Pradesh, India; Monitoring of antibiotic drug residues (Nitrofurans metabolites, Chloramphenicol, Tetracyclines, Quinolones, Sulphonamides), pesticide residues, anthelmintics, dyes and heavy metal contents in seafood items, for export, adhering to EU and ISO:IEC 17025:2005 regulations.

*(March 2010 – January 2013)*

- Junior Research Fellow at the Biochemistry and Nutrition division, Central Institute of Fisheries Technology (CIFT), Cochin, Kerala, India, for the project entitled “Assessment of demersal fishery resources along the continental slope area (200-1500m) of the Indian EEZ and the Central Indian Ocean”, funded by the Ministry of Earth Sciences (MoES), New Delhi, India.

*(Dec.2005-March 2010)*

### **Technical Skills**

- Hands-on experience in the operation of analytical instruments like GC, AAS, HPLC, UHPLC, LC-MSMS, GC-MS, ELISA etc.
- Pharmacological evaluation of marine oils and bioactives using animal models.
- Analysis of pesticide residues in meat and water samples using GC-ECD.
- Analysis of vitamins and poly aromatic hydrocarbon residues using HPLC.

- Protein separation using electrophoretic techniques.
- Analysis of antibiotic residues in shrimp samples using LC-MSMS.
- Experience in chemical laboratory procedures, inorganic/organic syntheses.

### Computer skills

Proficient with general PC use, Microsoft Excel, Word, Power Point presentations and SPSS software.

### Educational Qualification

- **Ph.D. (Marine Science)** 2006-2010  
Dissertation on “*Biochemical & pharmacological evaluation of liver oils of selected deep sea sharks and chimaeras of the Indian EEZ*”  
Cochin University of Science and Technology,  
Cochin, Kerala, India
- **M.Sc. (Chemistry) (76%)** 2003-2005  
Loyola College (autonomous), Chennai,  
Madras University,  
Tamil Nadu, India.  
  
*Project work: Synthesis and Characterisation of metallo-organic precursors for Chemical Vapour Deposition*
- **B.Sc. (Chemistry) (96%)** 2000-2003  
Sacred Heart College, Cochin,  
Mahatma Gandhi University,  
Kerala, India.
- Pre-Degree (Science stream, 84%) 1998-2000  
St. Thomas’ College, Trichur,  
Calicut University,  
Kerala, India.
- Class 10<sup>th</sup>, CBSE Board, (88%) 1998  
Ideal Indian School, Doha, Qatar.

### Awards and Scholarships

- Mary Appoline Memorial Award (M.Sc. Chemistry) 2005
- Prof. P.J. Joseph Scholarship (B.Sc. Chemistry) 2003

## Training programmes attended

- Microbial Risk Assessment in fresh and processed aquafoods, by Tamil Nadu Fisheries University, Tuticorin (26.02.15 – 18.03.15)
- Operation and Method development using GC-MS by Ms. Thermo Fisher Scientific, at MPEDA, Bhimavaram, Andhra Pradesh on 09.11.12
- Quality System for Proficiency Testing Providers as per ISO/IEC 17043:2010, by NABL, New Delhi (05.09.11 – 08.09.11)
- Operation, troubleshooting and maintenance of UHPLC (Schimadzu) by Ms. Spinco Biotech Pvt.Ltd., Chennai (22.8.11)
- Food safety prevention program conducted jointly by USFDA & MPEDA, Chennai (19.04.11 – 20.04.11)
- Measurement uncertainty: Principles & Practice; Systems & Training, Mumbai (19.10.10 – 20.10.10)
- Instrumental methods for Pesticide Residue analysis from CFTRI, Mysore (27.09.10 - 01.10.10).
- Laboratory Quality System Management and Internal Audit as per ISO/IEC 17025:2005 by CETE, Bangalore (26.07.10 – 29.07.10)
- In-house training (April – June 2010) from the Marine Products Export Development Authority (MPEDA), Bhimavaram, Andhra Pradesh on the extraction, sample preparation and analysis of
  - Nitrofurans metabolites (AOZ, AMOZ, AHD, SEM) and Chloramphenicol residues from aquaculture products and feeds using LC-MSMS.
  - Organochlorine pesticide residues from meat matrices using GC-ECD.
  - Dyes, using LC-MSMS.
  - Heavy metals (Cd, As, Pb, Hg, Sn, Zn, Cu) using AAS.
  - Anthelmintics (Ivermectin) in aquaculture products using ELISA reader.
  - Tetracyclines, Sulpha drugs and quinolones from aquaculture products using HPLC.
- Training on Seafood Quality Assurance; CIFT, Cochin (28.07.08 – 08.08.08)
- Training in HACCP, GMP and SSOP; CIFT, Cochin (06.01.07 – 10.01.07)

## Other works

- Conducted internal audit of MPEDA (QC) Labs and ELISA Screening labs as per ISO:IEC 17025: 2005.

## Research Papers published

1. **Mathen, M.**, Suseela, M., Asok Kumar, K. and Anandan, R. 2008, Analgesic and anti-inflammatory activities of liver oils of sharks from the Indian EEZ. *Journal of Food Lipids*, 15, 470-487.
2. **Mathen, M.**, Suseela, M., Asok Kumar, K. and Anandan, R. 2008, Lipid profile of liver oil of the sickle-finned chimaera (*Neoharriotta pinnata*) of the Arabian Sea. *Food*, 176-178.
3. Chintu M.R., Suseela, M., **Mathen, M.** 2010, Comparative evaluation of non-protein nitrogenous compounds in fishes of fresh and brackish water environments *Fishery Technology* , 47(2), 161-166.
4. **Mathen, M.**, Martin, K.A.X., Suseela, M., Asha K.K., Anandan, R. and Asok Kumar, 2012, Effect of *Rhizophora* root extracts on wound healing and yeast-induced pyrexia in rats. *Fishery Technology*, 49: 161-166.

## Research papers presented for Symposium/ Abstracts

1. **Mathen, M.**, Martin, X., Suseela, M., Asok, K., Asha, K.K., Anandan, R. Effect of mangrove root extracts on the wound healing and yeast induced hyper- pyrexia in experimental rats 8<sup>th</sup> *Asian Fisheries Forum – International Book of Abstracts* (2007) p 350.
2. **Mathen, M.**, and Suseela, M., Coconut oil, fish oil and polyunsaturated fatty acid enriched diets on the health status of Albino rats – a comprehensive study. National Seminar (Conserve Fish 2009) *Book of Abstracts* p112.
3. **Mathen, M.**, and Suseela, M. Comparative hypocholesterolemic and anti-oxidative effects of liver oils of *N.raleighana* and *C.crepidater* and PUFA in coconut oil fed rats – 20<sup>th</sup> *Indian Convention of Food Scientists and Technologists* – 2009.
4. Madonna, T., **Mathen, M.** and Suseela, M. Combined dietary supplementation of alpha tocopherol and polyunsaturated fatty acid concentrate on age associated alterations in rats – 7<sup>th</sup> *Asia Pacific Conference on Clinical Nutrition (APCCN)* - 2011

## Book Chapter

Mathen, M. (2014) Fish oils Production and Quality Aspects, In: Fish Processing Byproducts: Quality Assessment and Applications, Mahendrakar N and Sachindra NM (Eds.), Studium Press, USA.

## Personal Details

Date of Birth : 11-02-1983

Languages known : English, Malayalam, Hindi, Tamil, Telugu

Permanent Address : Menam Veedu, Mangattu Rd., Mamangalam,  
Cochin-682 025, Kerala, India.

Strengths : Hard-working and committed, well-determined and dedicated,  
optimistic, excellent communication skills, industrious  
,enthusiastic and possess good leadership qualities

Hobbies : Reading, swimming, playing table-tennis

## Referees

1. Dr. Suseela Mathew,  
Senior Scientist, Biochemistry & Nutrition Division,  
Central Institute of Fisheries Technology,  
Matsyapuri P.O., Willingdon Island,  
Cochin-29, Kerala, India  
Ph.no. 91-9446218958  
Email:suseela1962@gmail.com
2. Dr. N. M. Sachindra,  
Senior Principal Scientist,  
Meat and Marine Sciences,  
CSIR-CFTRI, Mysore,  
Karnataka, India  
Ph.No. 91-9449827424  
Email: nmsachindra@cftri.res.in
3. Dr. T.K.Srinivasa Gopal,  
Former Director, Central Institute of Fisheries Technology,  
Matsyapuri P.O., Willingdon Island,  
Cochin-29, Kerala, India  
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## Declaration

I hereby proclaim that all the information furnished above is correct and true to the best of my knowledge.



Dr. Mathen Mathew,  
Technical Officer, Meat & Marine Sciences,  
CSIR-CFTRI, Mysore – 20