

Dr. Gopikrishna Mantha

Assistant Professor

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HIGHLIGHTS

- 15+ years of research and teaching experience in zooplankton biology and ecology
 - Ph.D. and M.Sc. in Zoology with specialization in zooplankton, fishery biology & aquaculture
 - 10 SCI publications till date with 2 more currently under review
 - Instrumental in organizing, arranging, managing and inventory of museum specimens of Red Sea fauna at King AbdulAziz University Museum (KAUMM)
 - Experienced in coastal and offshore zooplankton sampling using a range of plankton nets, and meiobenthos sampling via tube corers, box corers and Van-Veen grab
 - Skilled in carrying out experiments on feeding ecology and trophic transfer of UV radiation on cultured, and wild harvested, copepods / zooplankton using phytoplankton
 - 4+ years of experience as demonstrator for postgraduate students on zooplankton
 - Analyze and interpret zooplankton data using statistical software (*PRIMER v6, Canoco v5...*)
 - 2+ years of experience in breeding and culture of ornamental fishes
 - 1+ year experience in brood-stock maintenance and larval spat culture of marine bivalves
 - Maintenance and culture of phytoplankton from stock cultures
 - Experienced in zooplankton cultures (cyclopoids, harpacticoids and rotifers)
 - Experienced in conducting predator-prey feeding experiments using copepods and mosquito larvae
 - Experienced to use particle coulter for phytoplankton size analysis
 - Experienced in using image analysis software (Leica Application Suite V4.2)
 - Experienced in processing zooplankton for Histology and Scanning Electron Microscopy
 - Proficient in using **OS** (Windows & MAC); **Desktop publishing (Microsoft office 2013:** Excel, PowerPoint, Word and MS-Access, and **Adobe:** PageMaker v7.0 and Acrobat Pro XI), **Image analysis** (Leica Application Suite V4.2) and **Image editing** (Adobe Photoshop CS)
 - Knowledge of marine fauna in and around Bay of Bengal, Arabian Sea, Indian Ocean, Gulf of Aqaba, Red Sea, North-eastern Mediterranean Sea and North-west Pacific Ocean
 - Capable of excelling in both individual and team based environments
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QUALIFICATIONS

Ph.D. Zoology, University of Madras

Thesis: Studies on the marine cyclopoid copepods

Mar. 2000 – Mar. 2005, Chennai, Tamilnadu, India

M.Sc. Zoology, University of Madras

Dissertation: Studies on the biology of the Great Salt Lake Strain, *Artemia franciscana* (Leach, 1819)

Jul. 1996 – Mar. 1998, Chennai, Tamilnadu, India

B.Sc. Zoology, University of Madras

Jul. 1993 – May 1996, Chennai, Tamilnadu, India

Advance Diploma in Applied Bioinformatics, Bioinformatics Institute of India

Sep. 2004 – Feb. 2006, Noida, Uttar Pradesh, India

Post-Graduate Diploma in Computer Science, Software Solutions Integrated Ltd.

May 1995 – Aug. 1996, Chennai, Tamilnadu, India

PROFESSIONAL EXPERIENCE

Assistant Professor, King Abdulaziz University, Faculty of Marine Sciences

March 2012 – Present, Jeddah, Saudi Arabia

- Involved in several projects & academic teaching on zooplankton biology and ecology
- Instrumental in organizing, arranging, managing and inventory of museum specimens of Red Sea marine fauna at King AbdulAziz University Museum (KAUMM) (mainly Sceleractian corals; Crustacea; Mollusca: Bivalva, Gastropoda, Scaphopoda; Echinodermata and Fishes)
- Demonstrate the identification of coastal and oceanic zooplankton from the Red Sea for M.Sc. Marine Biology students
- Onboard collection of zooplankton using a range of plankton nets via. several coastal and offshore cruises through “*R/V Al-Azizi*” and mechanized boats
- Biodiversity, abundance and biomass analysis from the formalin / ethanol fixed samples
- Involved in culture of copepods, and phytoplankton from stock cultures for conducting experiments
- Conduct mesocosm experiments to study the impact of UV radiation, and trophic transfer of UV radiation and their impacts on Red Sea zooplankton
- Conduct experiment to study the synergetic effect of temperature, with / without food, on zooplankton
- Assess the level of tumor like anomalies on copepods
- Analyze biodiversity data using statistical softwares like SPSS v19.0, PRIMER v6.0, CANOCO v5.0, SigmaPlot v11.0, PAlaeontological STatistics v3.15
- Report writing & publication of manuscripts.

Research Technician, National Taiwan Ocean University, Institute of Marine Biology

September 2009 – December 2011, Keelung, Taiwan R.O.C

- Involved in 2 projects
 - ❖ ***Effects of shallow Hydrothermal Vent plumes on zooplankton ecology and recruitment in Turtle island, Taiwan (NSC 97-2611-M-019-004)***
 - ❖ ***Copepod predator and prey interactions under various hydrodynamic conditions (NSC 98-2311-B-019-002-MY3)***
- Sampled, analyzed and comparatively studied the biodiversity and population structure of zooplankton using different mesh sized NORPAC plankton nets from the shallow hydrothermal vents around Kueishentao Island, an active volcanic island
- Reported tumor like anomalies on copepods for the 1st time around shallow hydrothermal vents
- Cultured freshwater cyclopoid copepod, *Mesocyclops* sp. using cultured rotifers for conducting predator-prey experiments on the newly hatched out 1st and 2nd instar larvae of the mosquito (*Anopheles* sp.)
- Data analysis using statistical softwares like SPSS v19, PRIMER v6, SigmaPlot v11
- Report writing & publication.

Research Assistant, The New College, Post-Graduate Department of Zoology,

July 2007 – August 2009, Chennai, Tamilnadu, India

- Involved in several departmental projects related with zooplankton and meiofauna
- Carried out survey, collection, and analysis on zooplankton and meiofauna biodiversity in and around Chennai

- Cultured live freshwater zooplankton using chicken manure, cow-dung and yeast
- Carried out comparative growth experiment using cyclopoids, cladocerans, *Artemia* sp., phytoplankton and artificial feeds on the development of *Poecilia reticulata*
- Carried out the histological analysis, to study the effect of different livefoods and artificial foods on the larval development of *Poecilia reticulata*
- Hands-on experience in mass-culturing of freshwater cyclopoids and cladocerans for studying their impact on the larval development of freshwater prawn, *Macrobrachium rosenbergii*
- Standby tutor to handle coursework on Comparative Animal Physiology and Population Ecology for Post-graduate Zoology students
- Data analysis, report writing and accounts maintenance of the projects.

Post-doctoral Research Fellow, Middle East Technical University, Institute of Marine Sciences

April 2006 – January 2007, Erdemli-Mersin, Turkey

- Involved in 2 projects
 - ❖ **Zooplankton biodiversity at Cilician basin, Northeastern Mediterranean Sea**
 - ❖ **Cyclopoid copepods in Northeastern Mediterranean Sea: taxonomy, abundance and feeding ecology (International Research Fellowship)**
- Coastal and offshore zooplankton collection through several cruises via. “R/V Bilim” and small boats using bongo nets, WP2 net and multiple opening / closing nets
- Biodiversity, abundance and biomass analysis from the formalin fixed zooplankton samples
- Analysis on the live/dead composition of copepods from fixed zooplankton samples
- Classification of zooplankton was carried up to order / family level for most zooplankton and Calanoida and Harpacticoida up to genus level and Cyclopoida up to species level
- Conducting feeding experiments on copepods (*Oncaea* sp.) using cultured phytoplankton species
- Hands-on experience in Beckman Particle Coulter (Model: MZ Series Coulter Counter) for phytoplankton size analysis
- Data analysis using SPSS v11.0, PRIMER v5.0, SigmaPlot v10.0), Golden Grapher v7.0 and Surfer v9.0
- Report writing and publication.

Ornamental Fish Technician, M/S. Babu Aquarists

February 2005 – March 2006, Kakinada, Andhra Pradesh, India

- Ornamental fish hatchery and farm management
- Brood-stock and larval rearing of freshwater and few salt water fishes
- Live-food culture and artificial feed preparation for larval rearing of fish fingerlings and juveniles
- Disease diagnosis and remedial measures in ornamental fishes
- Supplying healthy ornamental fishes to customers
- Arrange stress-free packing, shipment and delivery of good quality live ornamental fishes to different localities (intra- and inter- state customers)
- To have good customer relationship and provide after sales advice on fish health management
- Direct reporting to the management and administration of local staffs.

Senior Research Fellow, Central Marine Fisheries Research Institute, Govt. of India

September 2003 – January 2005, Cochin, Kerala, India

- Involved in the project
 - ❖ **Farming and production of *Pinctada margaritifera* (Black-lip pearl oyster) in Andaman and Nicobar Islands, India**
- Survey of pearl oyster beds using experienced divers and relocate safely to the laboratory
- Maintained pearl oysters brood-stock using phytoplankton cultures and artificial feeds
- Induced spawning of adult oysters through thermal shock
- Larval rearing of trochophore and veliger up to spat in the laboratory using cultured phytoplankton
- Deployment of these spats into the farming fields kept in cages (both raft & rack cultures) under natural conditions (in bay or shallow open sea)
- Preparation of rack and raft cages for deployment in the bays and shallow open waters
- Regular monitoring and maintenance of raft and rack cages.
- Selection of adult pearl oyster suitable for pearl production.
- Incorporate pearl beads into the adult oyster using surgical procedures
- Monitoring of pearl production under natural environment and harvest pearls after specific period
- Account ledger maintenance, stock assessment and procurement for items
- Data analysis using Microsoft Excel and SigmaPlot v10.0, and report writing.

Technical Assistant, The New College, Post-Graduate Department of Zoology

March 2002 – September 2003, Chennai, Tamilnadu, India

- Involved in the project
 - ❖ **Biodiversity and biology of marine copepods**
- Sampling and collection of zooplankton using bongo nets onboard mechanized fishing boats
- Biodiversity, abundance and biomass analysis from the formalin fixed samples
- Classification of copepods up to species level
- Culture of copepods to study their developmental stages using cultured phytoplankton
- Histological analysis to study the reproductive biology of copepods
- Data analysis using SPSS v9.0, SigmaPlot v10.0 and Microsoft Excel
- Report writing and management of the accounts.

Shrimp Hatchery Technician, Sri Vasavi Aquatech,

June 1998 – December 1999, Rajahmundry, Andhra Pradesh, India

- Selection and procurement of disease free prawn, *Penaeus monodon* brood-stock from fishermen.
- Maintenance and rearing of brood-stock using artificial and live-feeds
- Induce spawning of the brood stock
- Rearing up to post-larvae (PL) using *Artemia*, egg-custard and artificial feeds
- Administration of staffs and to arrange shipment of good quality post-larvae to aquaculture farmers
- Monitor stress-free packing and delivery of PLs to farm location
- Maintenance and procurement of hatchery's stock materials and accounts
- Direct reporting to the management and administration of local staffs.

PROJECTS

Principal Investigator

Symbiotic copepods associated with the Scleractinian corals from the Sharm Obhur, Jeddah, Central Red Sea

Grant No.: **G/1439/150/158**

Year Sanctioned: **2018**

Funding Agency: *Deanship of Scientific Research, King Abdulaziz University, Jeddah, Saudi Arabia*

Principal Investigator

Preliminary investigation on the Tumor-like anomalies (TLA) of copepods from Jeddah coast, central Red Sea – (completed)

Grant No.: **G/1436/150/389**

Year Sanctioned: **2015**

Funding Agency: *Deanship of Scientific Research, King Abdulaziz University, Jeddah, Saudi Arabia*

Zooplankton Subject Expert / Consultant

The nursery role of seagrass habitats for Red Sea invertebrates

Grant No.: **2-150-36-HiCi**

Year Sanctioned: **2015**

Funding Agency: *Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, Saudi Arabia*

Zooplankton Subject Expert / Consultant

Magnification of warming impacts on Red Sea plankton by enhanced UVB radiation

Grant No.: **2-150-36-HiCi**

Year Sanctioned: **2014**

Funding Agency: *King Abdulaziz City for Science & Technology (KACST), Saudi Arabia*

Zooplankton Subject Expert / Consultant

Trophic transfer of UVB radiation impacts to Red Sea zooplankton

Grant No.: **1-150-35-RG**

Year Sanctioned: **2014**

Funding Agency: *Deanship of Scientific Research, King Abdulaziz University, Jeddah, Saudi Arabia*

Zooplankton Subject Expert / Consultant

Impacts of UV radiation on zooplankton – (completed)

Grant No.: **1-150-1433-HiCi**

Year Sanctioned: **2013**

Funding Agency: *Deanship of Scientific Research, King Abdulaziz University, Jeddah, Saudi Arabia*

TECHNICAL SKILLS

Instruments: Can operate a range of zooplankton nets (Nansen Closing Net, WP2 Closing Net, Indian Ocean Standard Net, NORPAC net, Bongo Net, Neuston net) for horizontal and vertical sampling in marine waters; benthic samplers (Van-veen grab, Sediment Corer, box corer, tube corer and Bottom Dredge) for collecting benthos; ICES Incubator for conducting phytoplankton primary production measurements; plankton wheel for conducting copepod feeding experiments; a range of compound and stereo light microscopes for sorting and analyzing zooplankton; image analysis using LAS Image Analysis - Leica Microsystems; processing zooplankton samples for Scanning Electron Microscopy and histology; and phytoplankton size analyzing using Particle Coulter (Model: MZ Series Coulter Counter - Beckman Coulter Inc.).

Zooplankton: Identification up to order level, and copepods up to genera and species levels for Environmental Impact Assessments and biodiversity studies; conduct eco-toxicological, feeding behavior and respiration experiments, and to assess the impact of UV radiation and its trophic transfer from phytoplankton to zooplankton under mesocosm conditions; molecular analysis and pathology of copepods.

Aquaculture: Larval rearing of crustaceans (*Penaeus monodon* and *Macrobrachium rosenbergii* and *Scylla* sp.), bivalves (*Pinctada fucata*, *Crassostrea madrasensi* and *Mytilus viridis*) and variety of ornamental fishes using cultured live-foods like *Artemia* sp., rotifers, cyclopoids, copepods and phytoplankton.

Computer literacy: OS (Windows and MAC), Desktop publishing (Microsoft office 2013: Excel, PowerPoint, and Word, Adobe: PageMaker v7.0 and Acrobat Pro XI), Image analysis (Leica Application Suite V4.2), Imaging software (Adobe Photoshop CS).

Statistical analysis: Data analysis (SPSS v19.0 and PAST v.3.15), multivariate analysis (PRIMER v6.0 and Canoco v5.0), Graphs (SigmaPlot v12.0 and Golden Grapher v9.0), maps and counter maps (Golden Surfer v12.0).

TEACHING EXPERIENCE

- 5+ years of experience involving demonstration of the Red Sea zooplankton to marine biology students.
- Trained B.Sc., M.Sc. and Ph.D. students on Good Laboratory practices, techniques used in a Zoology laboratory.

PUBLICATIONS

- Ganapathiraju P, Pitcher TJ, **Mantha G.** (2017) Estimates of illegal and unreported seafood imports to Japan. *Marine Policy* 84:42–51.
- **Mantha G,** Al-Aidaros AM, El-Sherbiny M, Satheesh S, Sambhu C, Duarte CM. (2016) Ontogenetic changes in vulnerability of the prawn *Fenneropenaeus indicus* to solar radiation helps explain ontogenetic habitat shifts. *Estuaries and Coasts* 39:839–845.
- Al-Aidaros AM, El-Sherbiny M, **Mantha G.** (2016) Spatial heterogeneity of zooplankton abundance and diversity in the Saudi coastal waters of the Southern Red Sea. *Indian Journal of Geo-Marine Science* 45(1):70–85.

- Besiktepe S, Tang KW, **Mantha G.** (2015) Seasonal variations of abundance and live/dead compositions of copepods in Mersin Bay, northeastern Levantine Sea (eastern Mediterranean). **Turkish Journal of Zoology** 39:494–506.
- Al-Aidaros AM, El-Sherbiny M, Satheesh S, **Mantha G,** Agustī S, Carreja B, Duarte CM. (2015) Strong sensitivity of Red Sea zooplankton to UV-B radiation. **Estuaries and Coasts** 38(3): 846–853.
- Al-Aidaros AM, El-Sherbiny M, Satheesh S, **Mantha G,** Agustī S, Carreja B, Duarte CM. (2014) High Mortality of Red Sea Zooplankton under Ambient Solar Radiation. **PLoS ONE** 9(10):e108778. doi: <http://dx.doi.org/10.1371/journal.pone.0108778>
- **Mantha G,** Awasthi AK, Al-Aidaros AM, Hwang JS. (2013) Diversity and abnormalities of cyclopoid copepods around hydrothermal vent fluids, Kueishantao Island, northeastern Taiwan. **Journal of Natural History** 47(5-12): 685–697.
- Sivakumar K, Anandan R, Muthupriya P, **Mantha G,** Altaff K. (2013) Phylogenetic Analysis of *Thermocyclops decipiens* with Reference to 18S rDNA. **Indian Journal of Science and Technology** 6(12): 5585–5592.
- **Mantha G,** Moorthy MSN, Altaff K, Dahms HU, Sivakumar K, Hwang JS. (2012) Seasonal shifts of meiofauna community structures of sandy beaches along the Chennai coast, India. **Crustaceana** 85(1): 27–53.
- **Mantha G,** Moorthy MSN, Altaff K, Dahms HU, Sivakumar K, Hwang JS. (2012) Community structure of Harpacticoida (Crustacea: Copepoda) from the coast of Chennai, India. **Zoological Studies** 51(4): 463–475.
- Debabani C, **Gopikrishna M,** Altaff K. (2001) Study on the growth of post larvae of *Macrobrachium rosenbergii* (de Man) on a copepod and a cladoceran livefood. **Journal of Aquatic Biology** 16(1-2): 81–85.
- Al-Aidaros AM, **Mantha G.** (2018) First report of tumor-like anomalies on the copepods and their seasonality from the Obhur creek, Jeddah coast, Central Red Sea. **Journal of Ocean University of China** (accepted & in press)
- Al-Aidaros AM, El-Sherbiny M, **Mantha G.** (2018) Copepoda –their status and ecology in the Red Sea. In: Rasul NMA, Stewart ICF (eds) **The Red Sea Volume 2.** Springer-Verlag Berlin Heidelberg (accepted & in press).
- **Mantha G,** Al-Sofyani AA, Al-Aidaros AM, Crosby MP. (2018) Zooneuston and zooplankton abundance and diversity in relation to spatial and nycthemeral variations in the Gulf of Aqaba and northern Red Sea. **Acta Oceanologica Sinica** (under review)
- Altaff K, Janakiraman A, Naveed MS, Asrar Sheriff M, War M, Sugumaran J, **Mantha G.** (2018) Ecological assessment of zooplankton dynamics in the Adyar creek and estuary after eco-restoration. **Ocean and Coastal Management** (submitted)
- **Mantha G,** Dharani G, Dilshad BB, Mehrajuddin W, Altaff K. (2014) Biology and culture of calanoid copepods. In: Altaff K (ed) Live feed culture for aqua-hatcheries 112–124p.
- **Gopikrishna M,** Sivakumar K, Muthupriya P (2004) Cyclopoids. In: Altaff K (ed) A Manual of Zooplankton 100–108p.
- Pramod G, Koutob V, **Mantha G.** (2017) Senegal - Country Report, 14 pg., In: Pramod G (ed) Policing the Open Seas: Global Assessment of Fisheries Monitoring Control and Surveillance in 84 Countries, IUU Risk Intelligence - Policy Report No.1, Canada, 814 pg. <http://iuriskintelligence.com/admin/wp-content/uploads/2017/04/Senegal-country-Report-Global-Fisheries-MCS-Report-2017.pdf>
- Pramod G, **Mantha G.** India - MCS Country Report, 11 pg., In: Pramod G (ed) Policing the Open Seas: Global Assessment of Fisheries Monitoring Control and Surveillance in 84 Countries, IUU Risk Intelligence - Policy Report No.1, Canada, 814 pg (in press)

- Pramod G, **Mantha G.** Pakistan - MCS Country Report, 7 pg., In: Pramod G (ed) Policing the Open Seas: Global Assessment of Fisheries Monitoring Control and Surveillance in 84 Countries, IUU Risk Intelligence - Policy Report No.1, Canada, 814 pg (*in press*)
- Pramod G, **Mantha G.** Sri Lanka - MCS Country Report, 8 pg., In: Pramod G (ed) Policing the Open Seas: Global Assessment of Fisheries Monitoring Control and Surveillance in 84 Countries, IUU Risk Intelligence - Policy Report No.1, Canada, 814 pg (*in press*)
- Pramod G, **Mantha G.** Thailand - MCS Country Report, 12 pg., In: Pramod G (ed) Policing the Open Seas: Global Assessment of Fisheries Monitoring Control and Surveillance in 84 Countries, IUU Risk Intelligence - Policy Report No.1, Canada, 814 pg (*in press*)
- Sivakumar K. and **Mantha G** (2011) Partial 18S rDNA gene of *Thermocyclops decipiens* (Animalia: Arthropoda: Crustacea: Copepoda: Cyclopoida) got accepted by GenBank of NCBI (Accession No. BankIt1427114 Seq1 HQ889615) (*Gene Bank submission*)

PRESENTATIONS

- International Conference on Marine Environment of the Red Sea-2016 (ICMERS-2016), King Abdullah University of Science and Technology, **Tuwal, Saudi Arabia – Nov 2016 - Oral**
- International Conference on Marine Environment of the Red Sea-2014 (ICMERS-2014), King Abdulaziz University, **Jeddah, Saudi Arabia – Nov 2014 - Oral**
- World Association of Copepodologists, 11th International Conference on Copepoda (11-ICOC), ECOSUR, **Merida, Mexico – Jul 2011 - Oral & Poster**
- International Association of Meiobenthologists, 14th International Meiofauna Conference(14-IMCO), University of Ghent, **Ghent, Belgium – Jul 2010 - Oral & Poster**
- Cross-Strait Seminar on Marine Biodiversity, Xiamen University, **Xiamen, China – Nov 2010 - Oral**
- Annual meeting of The Fisheries Society of Taiwan 2009, National Kaohsiung Marine University, **Kaohsiung, Taiwan – Dec 2009 - Oral**
- World Association of Copepodologists, 10th International Conference on Copepoda (10-ICOC), The Khon Kaen University, **Pattaya, Thailand – Jul 2008 - Oral & Poster**
- Climate Changes Impact on Marine Ecosystem, Middle East Technical University and NATO, at **Ankara, Turkey – Aug 2006 - Oral**

TRAININGS / WORKSHOPS

- **Hazardous Waste Training** – King Abdullah University of Science and Technology – Aug 2016 (*online*)
- **Laboratory Safety Training** – King Abdullah University of Science and Technology – Aug 2016 (*online*)
- **Emergency Incident Preparedness Training** – King Abdullah University of Science and Technology – Aug 2016 (*online*)
- **Field Research Program Training** – King Abdullah University of Science and Technology – Aug 2016 (*online*)
- **Role of extremophiles on bio-remediation of petroleum hydrocarbons** – King Abdulaziz University, Jeddah, **Saudi Arabia** –Dec 2015 (1 day)
- **Bio-remediation of petroleum hydrocarbons under extreme conditions** – King Abdulaziz University, Jeddah, **Saudi Arabia** –Mar 2015 (1 day)
- **Operation & Maintenance of “ESPEC Walk-in Chamber EBL-6H20W6P3A-22”** – – King Abdulaziz University, Jeddah, **Saudi Arabia** –Apr 2012 (1 day)
- **Morphology and Systematics of Copepoda** –World Association of Copepodologists, **Mexico** -Jul 2011 (5 days)

- **Remote Sensing** – *Pan Ocean Remote Sensing Conference (PORSEC 2010), Taiwan* - Oct 2010 (4 days)
- **Meiofauna from Chemosynthetic Deep-Sea Environments** – *The Census of Marine Life project ChEss (Biogeography of Deep-Water Chemosynthetic Ecosystems and International Association of Meiobenthologists, Belgium* - Jul 2010 (1 day)
- **Climate Changes Impact on Marine Ecosystems** – *Middle East Technical University and NATO, Turkey* -Aug 2006 (13 days)
- **Marine Faunal Diversity of India** – *Zoological Survey of India* - Jan 2003 (5 days)
- **Microbial Genetics** – *Ayya Nadar Janaki Ammal College, UNESCO, CSIR and INSA, India* - Jul 2002 (5 days)
- **Taxonomy, Genetics and Gene-Banking on Coastal and Marine Bioresources and Biodiversity** – *Central Institute of Fisheries Education, India* - Jun 2002 (21 days)
- **Electrophoresis Techniques** – *The Electrophoresis Institute, India* -May 2002 (6 days).
- **Finfish and Shellfish Disease Investigation** – *Central Marine Fisheries Research Institute, India* - Aug 2000 (11 days)
- **Genetic Improvement of Cultivated Carps through Genome Manipulation and Selective Breeding** – *Central Institute of Freshwater Aquaculture, India* - Aug 2000 (10 days)

HONOURS & MEMBERSHIPS

- **Post-doctoral International Research Fellowship** -The Scientific and Technological Research Council of Turkey (TUBITAK)"
- Society for Biotechnologists, *India* – **Life Member**
- RoMeio (Reducing environments & Meiofauna), *Belgium* – **Member**
- Journal of Aquaculture & Marine Biology, *USA* – **Associate Editor**
- BIOINFO Aquatic Ecosystem, *India* – **Advisory Board Member**
- **Foreign Ph.D. examiner** -Evaluated 6 Ph.D. thesis from Indian Universities.

PERSONAL DETAILS

Date & Place of Birth : 26th October, 1976 / Chennai, Tamilnadu, India
 Passport No. : Z2260933
 Known Languages : English, Telugu, Tamil, Hindi and Sanskrit
 Hobbies : Reading, Indology book collector, Bio-Philatelist and playing Chess
 Permanent address : C/O. M.V.N.S. Murthy,
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REFERENCES

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- Dr. Altaff Kareem** Post-Graduate and Research Department of Zoology
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Place: Jeddah, Saudi Arabia
Date: 18th February 2018



Signature of the Applicant