



RENY. P.DEVASSY

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WORK EXPERIENCE

August 2022 onwards- Senior marine biology specialist, Delmare marine services private limited, kerala, India

- Preparation of project proposals
- Project reports
- Data management
- Reviewing of reports
- Article writing

March 2019 >March 2022 -Research Specialist, Red Sea Research Center, KAUST, Saudi Arabia

- Participation in research cruises
- Participation in various field trips
- Collection of plankton samples
- Continuous phytoplankton data collection using Cytobuoy, cytometer
- Analysis of Cytobuoy data for the results
- Taxonomical analysis of phytoplankton samples up to the species level
- Taxonomical analysis of zooplankton samples
- Live experiments with zooplankton specimens

- Guidance to master & PhD students for their experimental research
- Report and article preparation
- Lab management
- Procurement and purchases
- Maintaining inventories for lab materials and research equipments
- Lab safety representative
- Field research plan preparation and approval from different government organizations

April 2011 > March, 2019 – Lecturer/Marine biologist, King Abdul Aziz University, Jeddah, Saudi Arabia

- Participation in coastal/offshore field trips along the entire Red Sea.
- Collection of Plankton samples using different types of nets.
- Taxonomical analysis of phytoplankton specimens up to species.
- Taxonomical analysis of Zooplankton up to the group level.
- Taxonomic identification of major Copepoda genus in Red sea.
- Preparation of plankton samples for conducting stable isotope analysis.
- Preparation of live plankton samples for conducting UV ray experiments.
- Barnacle larval rearing and experiments with different environmental aspects
- Water quality analysis.
- Data analysis, Interpretation, Report & Manuscript preparation.
- Conducting practical classes for postgraduate students.
- Guiding graduate and post graduate students for conducting research experiments in order to fulfill their education program.

April 2007> April 2011– Project Assistant, National Institute of Oceanography, India

- Participation in coastal/offshore field trips along different regions of the Indian Ocean (Arabian sea & Bay of Bengal).
- Collection of water, sediment & plankton samples using different equipments.
- Taxonomical analysis of marine and estuarine phytoplankton specimens up to species.

- Taxonomical analysis of Zooplankton up to the group level.
- Size fractionated Primary production using radioactive C¹⁴.
- Size fractionated phytoplankton biomass (chl a) analysis.
- Identification of Benthic Macrofauna and Meiofauna.
- Sediment Grain size analysis.
- Data analysis, Interpretation, Report & Manuscript preparation.

July 2004 > November 2006 - PGT (Post graduate teacher) of Biology in Children Public School (CBSE BOARD) Fatehpur, Uttar Pradesh (INDIA).

April 2004 > June 2004 - TGT (Trained Graduate teacher) of Biology in All Saint's Convent School (ICSE BOARD), New Tehri, Utterakhand (INDIA)

PUBLICATIONS

- El-Sherbiny, M. M., Devassy, R. P., El-Hefnawy, M. E., Al-Goul, S. T., Orif, M. I., & El-Newehy, M. H. (2023). Facile Synthesis, Characterization, and Antimicrobial Assessment of a Silver/Montmorillonite Nanocomposite as an Effective Antiseptic against Foodborne Pathogens for Promising Food Protection. *Molecules*, **28(9)**, 3699.
- Cai, C., Devassy, R. P., El-Sherbiny, M. M., & Agusti, S. (2022). Cement and oil refining industries as the predominant sources of trace metal pollution in the Red Sea: A systematic study of element concentrations in the Red Sea zooplankton. *Marine Pollution Bulletin*, **174**, 113221.
- Karati, K. K., Vineetha, G., Devassy, R. P., Al-Aidaros, A. M., & El-Sherbiny, M. M. (2022). Role of Ecohydrographical Barriers on the Spatio-Temporal Distribution of Chaetognath Community in the Gulf of Aqaba during Summer. *Water*, **14(5)**, 822.
- Bates, A. E., Primack, R. B., Biggar, B. S., Bird, T. J., Clinton, M. E., Command, R. J., Devassy, R. P., ... & Parmelee, J. R. (2021). Global COVID-19 lockdown highlights humans as both threats and custodians of the environment. *Biological Conservation*, **263**, 109175.

- Duarte, C. M., Chapuis, L., Collin, S. P., Costa, D. P., Devassy, R. P., Eguiluz, V. M., ... & Juanes, F. (2021). The soundscape of the Anthropocene ocean. *Science*, **371**(6529).
- El-Sherbiny, M. M., Devassy, R. P., Muller, E. M., Al-Sofyani, A. A., & Al-Aidaros, A. M. (2019). Biodiversity and abundance of plankton communities along the coastal waters of Gulf of Aqaba, Saudi Arabia. *Pakistan Journal of Zoology*, **51**(5), 1823.
- Devassy, R. P., El-Sherbiny, M. M., Al-Sofyani, A. A., Crosby, M. P., & Al-Aidaros, A. M. (2019). Seasonality and latitudinal variability in the diatom-cyanobacteria symbiotic relationships in the coastal waters of the Red Sea, Saudi Arabia. *Symbiosis*, **1-13**.
- Karati, K. K., Al-Aidaros, A. M., Devassy, R. P., El-Sherbiny, M. M., Jones, B. H., Sommer, U., & Kürten, B. (2019). Ecohydrographic control on the community structure and vertical distribution of pelagic Chaetognatha in the Red Sea. *Marine Biology*, **166**(3), 1-13.
- Kürten, B., Zarokanellos, N. D., Devassy, R. P., El-Sherbiny, M. M., Struck, U., Capone, D. G., ... & Jones, B. H. (2019). Seasonal modulation of mesoscale processes alters nutrient availability and plankton communities in the Red Sea. *Progress in Oceanography*, **173**, 238-255.
- Al-Aidaros, A. M., Devassy, R. P., & El-Sherbiny, M. M. (2019). Unusual dominance of harmful microalgae *Pseudo-nitzschia delicatissima* cf.(Cleve) Heiden in the coastal waters of Jeddah, central Red Sea. *Pak. J. Bot*, **51**(2), 1-6.
- Devassy, R. P., El-Sherbiny, M. M., Al-Sofyani, A. M., & Al-Aidaros, A. M. (2017). Spatial variation in the phytoplankton standing stock and diversity in relation to the prevailing environmental conditions along the Saudi Arabian coast of the northern Red Sea. *Marine biodiversity*, **47**(4), 995-1008.
- Al-Aidaros, A. M., Satheesh, S., & Devassy, R. P. (2017). Effects of pharmacological compounds on the barnacle larval development, metabolism and settlement. *International Biodeterioration & Biodegradation*, **117**, 190-196.

- Al-aidaroos, A. M., Karati, K. K., El-shebiny, M. M., Devassy, R. P., & Kürten, B. (2017). Latitudinal environmental gradients and diel variability influence abundance and community structure of Chaetognatha in Red Sea coral reefs. *Systematics and Biodiversity*, *15*(1), 35-48.
- Al-Aidaros, A. M., Satheesh, S., & Devassy, R. P. (2016). Biochemical Analysis of Adhesives Produced by the Cypris Larvae of Barnacle Amphibalanus amphitrite. *Thalassas: An International Journal of Marine Sciences*, *32*(1), 37-42.
- Kürten, B., Al-Aidaros, A. M., Kürten, S., El-Shebiny, M. M., Devassy, R. P., Struck, U., ... & Sommer, U. (2016). Carbon and nitrogen stable isotope ratios of pelagic zooplankton elucidate ecohydrographic features in the oligotrophic Red Sea. *Progress in Oceanography*, *140*, 69-90.
- Vineetha, G., Jyothibabu, R., Madhu, N. V., Kusum, K. K., Sooria, P. M., Shivaprasad, A., Devassy, R. P.,... & Deepak, M. P. (2015). Tidal influence on the diel vertical migration pattern of zooplankton in a Tropical Monsoonal Estuary. *Wetlands*, *35*(3), 597-610.
- Kürten, B., Khomayis, H. S., Devassy, R. P., Audritz, S., Sommer, U., Struck, U., ... & Al-Aidaros, A. M. (2015). Ecohydrographic constraints on biodiversity and distribution of phytoplankton and zooplankton in coral reefs of the Red Sea, Saudi Arabia. *Marine Ecology*, *36*(4), 1195-1214.
- Shivaprasad, A., Vinita, J., Revichandran, C., Reny, P. D., Deepak, M. P., Muraleedharan, K. R., & Naveen Kumar, K. R. (2013). Seasonal stratification and property distributions in a tropical estuary (Cochin estuary, west coast, India). *Hydrology and Earth System Sciences*, *17*(1), 187-199.
- Shivaprasad, A., Vinita, J., Revichandran, C., Manoj, N. T., Srinivas, K., Reny, P. D., ... & Muraleedharan, K. R. (2013). Influence of saltwater barrage on tides, salinity, and Chlorophyll a in Cochin Estuary, India. *Journal of Coastal Research*, *29*(6), 1382-1390.

- Madhu, N. V., Reny, P. D., Paul, M., Ullas, N., & Resmi, P. (2011). Occurrence of red tide caused by *Karenia mikimotoi* (toxic dinoflagellate) in the Southwest coast of India. *Indian Journal of Geo-Marine Sciences* (2011), 40(6), 821-825.
- Sooria, P. M., Reny, P. D., Jagadeesan, L., & Nair, M. (2011). Influence of river influx on phytoplankton community during fall inter-monsoon in the coastal waters off Kakinada, east coast of India. *Indian Journal of Geo-Marine Sciences* (2011) 40(4), 550-558.

SYMPOSIUM / SEMINAR/CONFERENCE

- **Reny P. Devassy**, Al-Aidaros AM, El-Sherbiny MM, Kürten B (2016). Biodiversity of marine net-phytoplankton in the oligotrophic Red Sea with special reference to diatom and Dinoflagellates. International Conference on the Marine Environment of the Red Sea, November 14-16, KAUST, Saudi Arabia.
- Effect of the Indian Ocean monsoon on the biogeochemistry of the Red Sea International Conference on the Marine Environment of the Red Sea, November 14-16, KAUST, Saudi Arabia.
- Net-plankton collections offer taxonomic insights into the phytoplankton and zooplankton biodiversity during whale shark (*Rhincodon typus*) aggregations near Al Lith in the central Red Sea. International Conference on the Marine Environment of the Red Sea, November 14-16, KAUST, Saudi Arabia.
- Kürten B, Schulz I, Kürten S, **Devassy RP**, Zarokanellos N, Sanders T, Daehnke K, Emeis K-C, Struck U, Al-Aidaros AM, Jones BH (2016) Nitrate and zooplankton stable isotopes together with plankton taxonomy reveal the importance of nitrogen fixation by *Trichodesmium* for the biogeochemistry of the Red Sea. 10th International IsoEcol Conference, Tokyo (JPN).
- Kürten B, Al-Aidaros AM, Kürten S, El-Sherbiny MM, **Devassy RP**, Struck U, Zarokanellos N, Sommer U, Hansen T, Jones BH (2015) Ecohydrographic constraints of planktonic food web

configuration in the Red Sea. Dynamics of the Indian Ocean: Perspective and Retrospective. Goa (IND).

- Kürten B, Kürten S, **Devassy RP**, El-Sherbiny MM, Sommer U, Struck U, Al-Aidaros AM (2015) Influence of natural environmental gradients and anthropogenic effluents on coral reefs in the Red Sea. Dynamics of the Indian Ocean: Perspective and Retrospective. Goa (IND).
- Occurrence of Diatom-Cyanobacterial symbiotic relationship in the coastal surface waters of Northern Red Sea. Hisham khomayis, Ulrich Sommer, Ali Al-Aidaros, Benjamin Kürten, and **Reny Devassy**, In Geophysical Research Abstracts, Vol. 15, EGU2013-2804, EGU General Assembly 2013, Vienna, Austria.
- Occurrence of Diatom (*Rhizosolenia hebetate*) - Cyanobacterial (*Richelia intracellularis* Schmidt) symbiosis in the Palk bay, south east coast of India. Madhu. N.V, Meenu Paul., **Reny. P.D**, Ullas.N, On National conference on Marine Biodiversity, present status and prospectus In Bharatidasan University, Trichy, Tamilnadu.
- Seasonal variation of planktonic (phyto- and zoo-) abundance, standing stock and community structure of Cochin Backwaters – India. Sooria,P.M; Vineetha G; **Reny.P.D**; Meenu Paul; Ratheesh U; Fausia K.H; Madhu, N.V. MECOS 09, International Symposium on Marine Ecosystems Challenges and Opportunities, 9-12 February 2009, Kochi, India.
- Hydrographic changes in a tropical estuary (Cochin backwaters) during pre monsoon Vijay John Gerson, Resmi. P, Muhammed Rafeeq.M.M, **Reny. PD**, Meenu Paul, Madhu, N.V., Nair, M., Revichandran, C., 2009 National Conference on coastal Process, Resource and Management, Centre for Earth Science Studies, Thiruvanthapuram.
- Participated in the International symposium on Remote sensing and Fisheries, 15-17 February; 2010, Kochi, India, Organized by Societal Applications in Fisheries and Aquaculture Using Remote sensed Imagery (SAFARI).

- Participated in the Symposium on Applications of Flow Cytometry in Marine Biology at National Institute of Oceanography, Dona Paula Goa on April 8, 2010.

SKILLS & EXPERTISE

- Well experienced in operating **Cytobuoy continuous flow cytometer** and data analysing, interpretation of results through easycluz and cytocluz software.
- Well experienced in operating **Cytobuoy cytosense benchtop cytometer** and data analysing, interpretation of results easycluz and cytocluz software
- Trained in operating various other flow cytometers (**Facsanto, Sysmex cube 8**)
- Experienced in operating various radiometers (**PUV2500, BIC spectroradiometer 2104P, C-OPS**)
- Trained for operating **Phyto PAM**
- Well experienced in operating different **light and UV sensors**
- Experienced in operating different types of zooplankton and phytoplankton nets (**Bottle net, IOS, Neuston, Bongo, Multinet, Apstein WP2 & Horizontal nets**).
- Well versed in operating different microscopes (**Leica DMI 3000, M80, & M205, Wild Heerbrugg, Olympus IX 51 & CK30**).
- Various image analyzing programs such as LAS (**Leica Application Suite & Olympus Image Analyzer**).
- Operated various equipments such as **Liquid Scintillation counter, Flow cam(fluid imagics), HPLC (Agilent technologies), Fluorometer (Turners), Spectrophotometer (Shimadzu)**.
- Well experienced in using different softwares like **SURFER, PRIMER, SPSS, ORIGIN**

SAFETY TRAININGS

- Biosafety
- Lab safety
- Primary hazardous substances
- Emergency incident
- First aid

- Chemical spill
- Field research
- CITI animal safety
- Hazardous waste

SCIENTIFIC PROJECTS (RED SEA)

- *Assessment of marine Bio diversity and Ecosystem Health in Gulf Of Aqaba, Saudi Arabia* (A research cooperation between **King Abdul Aziz University** and **Mote Marine Laboratory and Aquarium, Florida, USA**)
- *“Nutrient Cycling in Red sea”* (A research cooperation between **King Abdul Aziz University** and **King Abdullah University of Science and Technology**, Principle Investigator **Dr. Burt H. Johns**).
- *“Impact of Ultra violet rays on Red sea Zooplankton”* (A Research project in which **Dr. Carlos M. Duarte**, a highly cited researcher worked as the scientific investigator).
- *“Environmental Monitoring of Jeddah Coastal waters”* (A research project chaired by **Prince Khaled Bin Sultan research foundation** which emphasizes monthly marine biological monitoring of different locations along Jeddah coast).
- *“Nutrient gradients in red sea:-How do they correlate with plankton diversity and abundance and with coral macro algal interactions”* (A research cooperation between **King Abdul Aziz University** and **IFM-GEOMAR, Germany**).
- *“Biodiversity monitoring of Red sea”* (Research cooperation between **King Abdul Aziz University** and **university of Senckenberg, Germany**).
- *“Obuhur Creek Plankton Biodiversity Monitoring”* (**Deanship of Scientific Research project KAU**).
- *“A study on heavy metal composition of zooplankton from the coastal waters of Jeddah”* (**Deanship of Scientific Research project KAU**).
- *“Isolation and characterization of Adhesive material from the common fouling barnacle *Amphibalanus amphitrite*”* (**Deanship of Scientific Research project KAU**).

SCIENTIFIC PROJECTS (Indian Ocean)

- “*Eco-biogeography of the estuarine and coastal waters of south west coast of India*”, **funded by Council of scientific and Industrial Research (CSIR) India.**
- “*Ecosystem modeling of Cochin backwaters, Southwest coast of India*” **Funded by Integrated Coastal and Marine Area Management Project Directorate (ICMAM PD).**
- “*Environment and Bio-diversity monitoring of the exploratory drilling sites of Krishna-Godavari block (KG-OSN-2001/3)*” **sponsored by Gujarat State Petroleum Corporation (GSPC) INDIA.**
- “*Marine Environmental Impact assessment for the release of treated effluent of onshore gas terminal of GSPC.Ltd*”.
- “*Rapid marine Environmental Impact Assessment studies of proposed dredging operations for gas processing plant of M/S. GSPC.Ltd*”.
- “*Environmental Monitoring of drilling wells at Mahanadi Offshore block*” (MN-DWN) **Sponsored by Oil and Natural Gas Corporation (ONGC) INDIA.**
- “*Environmental Impact Assessment studies of the exploratory drilling sites off Mumbai*” **sponsored by Prize petroleum corporation Mumbai INDIA.**
- “*Environmental Impact Assessment studies of the harbor extension project Tuticorin*”, **sponsored by Tuticorin Port trust INDIA.**
- “*Environmental impact assessment studies of the ongoing International Container Transshipment Terminal project Cochin*”, **sponsored by Cochin Port trust INDIA.**
- “*Environmental impact assessment studies for alignment 4 A of Sethusamudram channel*”, **sponsored by Sethusamudram Corporation Ltd, Chennai.**

SCIENTIFIC CRUISES/ TRIPS (RED SEA)

- Participated in Deep Coral Cruise on **RV Thuwal** in January, 2022 (7days)
- Participated in DEEP cruise on **RV Thuwal** in April, 2019 (9 days)
- Participated in Gulf of Aqaba Biodiversity Expedition on **RV Thuwal** in March 2018 (11 days)
- Participated in the deep Sea biodiversity cruise on **RV Al Assisi** in May 2017 (10 days)
- Participated in Gulf of Aqaba Biodiversity Expedition on **RV Al Assisi** in September 2016 (11 days)
- Participated in Nutrient Cycling Cruise in **RV Thuwal** (1st 2nd, 3rd & 5th Leg) 40 days in October 2014, April 2015, August 2015 & August 2016)
- Participated in International Red Sea Expedition (deep water cruise) on behalf of the Jeddah Transect Project in April 2012 (25 days) in **RV Pelagia** (NIOZ Holland).
- Participated in Coral Plankton Expedition (COPEX) in coastal red sea on behalf of the Jeddah Transect project in September/October 2011 (30 days).
- Participated in International Red Sea Biodiversity Monitoring in February/March 2012 (25 days).
- Participated in International Red Sea Biodiversity Monitoring in June 2013 (15 days).
- Participated in monthly field trips along the Red sea coast of Jeddah.

EDUCATIONAL PROFILE

- **M.Sc Botany.** St. Albert's College, Ernakulam, M.G. University (2001- 2003) with 69.3% Marks.
- **B.Sc Botany.** S.N.M College, Maliankara, M.G. University (1998- 2001) with 75% Marks
- **B.Ed. Natural Science.** S.N.D.P. Yogam Training College, Adimali, M.G. University (2003-2004) with 61.5% Marks.
- Qualified **SET** (State Eligibility Test) in Botany (Mandatory for Higher Secondary School Teaching in Kerala, India)

PERSONAL DETAILS

- Palliparambil house

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Kothamangalam
Ernakulam, Kerala, India
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➤ Date of Birth : 14 Th April 1981
Marital Status : Married
Religion : Christian, Catholic
Languages Known : English, Hindi, Malayalam & Arabic

REFERENCES

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