

PERSONAL INFORMATION

Name : **Dr. KUNGUMA KANNIKA M**
Designation and Department : Assistant Professor, P.G. Department of Zoology
Arulmigu Palaniandavar Arts College for Women, Palani

**EDUCATION**

July 2016- August 2021 Ph.D.-Doctor of Philosophy
Ethiraj College for Women, University of Madras – Chennai, India

September 2014- August 2015 M.Phil. Master of Philosophy in Zoology, First Class - Exemplary
Ethiraj College for Women, University of Madras – Chennai, India
(Proficiency in M.Phil. Zoology)

June 2012- April 2014 M.Sc.-Master of Science in Zoology, First Class with Distinction
Ethiraj College for Women, University of Madras – Chennai, India

June 2009- April 2012 B.Sc.- Bachelor of Science in Advanced Zoology and Biotechnology, First Class with Distinction
Ethiraj College for Women, University of Madras – Chennai, India

RESEARCH INTEREST

- Histopathology and Histochemistry Studies
- Gel Documentation
- Biochemical Analysis
- Bioassay studies

Title of Ph.D. thesis work Toxicological Impact of Triclosan on Various Marine Phytoplankton and Barnacle Larvae.

Title of M.Phil. thesis work: Anticancer and antibacterial activity of purified antimicrobial peptides from hemolymph of Indian mud crab (*Scylla serrata*)

Title of M.Sc. thesis work: Effect of Vermicompost on Soil fertility and the Nutritional status of *Euphorbia hirta*

RESEARCH EXPERTISE

Meticulous and analytical researcher with over four years of educational and hands-on experience in Phytoplankton culture. Demonstrated expertise in *in vivo* assays, histopathological examinations, high-throughput screenings. Skilled in designing and executing experiments, analyzing complex datasets, and presenting findings in clear and concise formats. Proficient in Probit and Dunnet software's.

PROFESSIONAL SKILLS

- Tissue processing for histopathological and histochemical studies
- Enzyme activities studies by Native-PAGE and DNA fragmentation assay by Agarose gel electrophoresis are analyzed by Gel documentation system.
- Biochemical analysis of biomolecules (carbohydrates, proteins and lipids)
- Isolation of DNA from animal tissues
- Bioassay on marine food chains organisms by static, static renewal and continuous flow through methods
- Dissection of animal models like frog, fish, green mussel, shrimp, crab etc.
- Analysis of water samples for O₂, CO₂, salinity, temperature, dissolved oxygen (DO), plankton, and chlorophyll

Communication Skill

Excellent presentation skills demonstrated in various meetings and national, and international conferences

Organizing skills

Involved as an organizing member in conducting national and international conferences

Software skills

- Probit and Dunnet Application
- Data Base
- Word Processing
- Presentation Software
- Design and Video Skills
- Article Writing
- Proof Reading
- Manuscript editing

PUBLICATIONS**Optimization of Culture Conditions for Growth of Marine Phytoplankton**

Journal: Journal of Tropical Life Science

Published: January 2020

Optimization of Culture Conditions for rearing of Barnacle Nauplii *Amphibalanus amphitrite*

Journal: Annals of the Romanian Society for Cell Biology

Published: June 2020

An Economic Analysis of Indian Major Carp Production in Cauvery Delta Zone, Tamil Nadu

Journal: Infokara Research

Published: December 2019

Effect of vermicompost on soil fertility and the nutritional status of *Andrographis paniculate* and *Euphorbia hirta*

Journal: Journal of Pharmacognosy and Phytochemistry

Published: February 2019

Fluorescein diacetate hydrolysis assay on copepod *Tisbe furcata* as a new rapid bioassay to assess marine sediment quality

Journal: Journal of Earth System Science

Published: July 2021

Rare occurrence and culture of heterotrichous ciliate, *Folliculinopsis producta*

Journal: Journal of the Marine Biological Association of India

Published: October 2021

CONFERENCES

Impact of triclosan and morphological changes nauplii of the barnacle *Amphibalanus amphitrite* - World Brackishwater Aquaculture Conference held at ICAR Chennai on January 24-25, 2019.

Growth optimization of Marine phytoplankton for Laboratory condition of Temperature, salinity & Light – International Symposium on “Advances in coastal Research with Special Reference to Indo Pacific- 2019” held at NCCR Chennai on December 17-19, 2019.

National seminar on Lifestyle Diseases -Causes & Prevention held at DG Vaishnav College- Chennai on January 22, 2014.

International Conference for Conservation and Sustainable Utilization held at Ethiraj College of Woman on Chennai, February 2, 2018.

One Day Seminar cum Awareness Programme on “Prevention and Management of Hepatitis” held at Guru Nanak College – Chennai on July 28, 2017.

PARTICIPATION AND AWARDS

Participated and won **first prize** for best poster presentation in the International Symposium on “Advances in Coastal Research with Special Reference to Indo Pacific-2019” held at NCCR Chennai on December 17-19, 2019.

Participated in the planting of 1001 Tree saplings as a part of Eco-Tourism on the Banks of Coovum River. Chennai on August 25, 2007

Participated and won **first place** in Quiz – FAUNA 2011 held at Ethiraj College for Women on December 22, 2011.

Participated in the Internship Training Programme on Animal Taxonomy Organized by the Zoological Survey of India held at zoological survey of India -Chennai on June, 14, 2013.

Participated in the training programme on “Marine Ecotoxicology and sea Water Quality Standards ” held on NCCR-Chennai on 21-23, 2019.