

## **Area of Research Expertise with Projects conducted: Marine Natural Products, Bioremediation and Marine Microbiology**

### **Awards and recognitions:**

1. **Department of Science & Technology- Tamil Nadu State Council for Science & Technology-** “Heavy metal accumulation of Adyar waters: Analysis & Bioremediation” (2010-2012)
2. **Department of Science & Technology, Science & Engineering Research Board-** “Marine Anticancer compounds” (2013-2016)
3. **GATE-Sri Ramachandra University** “Tracing an apoptotic inducing compound from a marine Echinoderm: *Stellaster equestris* in cancer cell lines” (2014-2015)(As co-investigator) [Rs. 75000/-]
4. **Ministry of Earth Sciences, Govt. of India** - “Hydrocarbon degrading bacterial emulsifiers from southeast coasts of India” proposal presented to Ministry of Earth Sciences and now the proposal is in the Integrated Finance Division (IFD) and an amount of Rs. 21.518 lacs is planned to be sanctioned [2016-2019] Proof attached with file name MoES.

### **Awards & Recognitions of faculty:**

1. Young Scientist Award” for the oral presentation of the paper entitled,”Antibacterial activity of a reef associated gastropod, *Trochus radiatus*”. **K. Mary Elizabeth Gnanambal, C. Chellaram** and Jamila Patterson, Suganthi Devadason Marine Research Institute (SDMRI), Tuticorin- 628 001. Proceedings-National Seminar on Reef Ecosystem Remediation 24-26 Sep 2003, organized by Suganthi Devadason Marine Research Institute, Tuticorin.

2. “Young Scientist Award” for the oral presentation of the paper entitled “Insecticidal activity of the whole body extracts of *Turbo intercostalis* (Archaegastropoda: Turbinidae) and *Cerithidea cingulata* (Caenogastropoda: Potamididae). **Mary Elizabeth Gnanambal, K. Chellaram, C** and Patterson Edward, J. K. Proceedings-Recent trends in Fisheries Education and Research, Dec 2004 organized by Fisheries College, Tuticorin

For my students:

1. “**Best paper award**” for the paper “Column purified fraction of a marine molluscan species elicits potent insecticidal action against rice weevil”. Ramya Devi, K. C, Hareesh Chandra, P, Mary Elizabeth Gnanambal, K & Patterson Edward, J. K. 2<sup>nd</sup> Indian Youth Science Congress, June 26-28, 2010, SRM University, Chennai

2. **Best paper award** for the oral presentation of the paper, “Epibiotic bacteria attached to the seaweeds of Tuticorin off Southeastern coast of India reveals antibacterial action” Aishwarya Ravisankar and Mary Elizabeth Gnanambal, K. at “Microciencia 2012”, held at Center for Environmental Nuclear Research, Directorate of Research, SRM University, Chennai - 603203 on 17<sup>th</sup> and 18<sup>th</sup> December 2012

**Workshop, training undergone by faculty:**

1. Indo-US CITI workshop on “Promoting Research ethics Education in India” organized by SRU on 24<sup>th</sup> and 25<sup>th</sup> Nov 2009
2. Workshop on “Chemo Informatics and Molecular Modeling” by Dept. of Bioinformatics on 5<sup>th</sup> Aug 2010
3. International workshop on “Electro-chemotherapy for effective cancer treatment” organized by B. S Abdhur Rahman University and SRU on 27<sup>th</sup> and 28<sup>th</sup> July 2011
4. Workshop for teacher on “Optimizing your voice” on the World Voice Day organized by Department of ENT-HNS, SRU on 16<sup>th</sup> April 2013
5. Seminar cum workshop on “ICT in Teaching-Learning and Research” by IQAC, SRU on 6<sup>th</sup> and 7<sup>th</sup> March 2015

**List of Publications:**

1. Gnanambal. KME, Lakshmipathy SV. Dictyoceratidan poisons: Defined mark on microtubule/tubulin kinetics. Life Sci 2016; 148: 229-40. doi: 10.1016/j.lfs.2016.02.034.
2. Gnanambal KM, Patterson J, Patterson. EJ. Isolation of a novel antibacterial thioketone from the seagrass, *Cymodocea serrulata*. Phytother Res 2015; 29:554-60. doi: 10.1002/ptr.5283.
3. Penmetsa A, Devi KCR, Gnanambal KME. Degradation of two hydrocarbons by a marine Streptococcus sp. isolated from Gulf of Mannar, southeast coast of India, Sri Ramachandra Journal of Medicine 2015; 8:8-15.
4. Ravisankar A, Gnanambal ME, Sundaram LK. A newly isolated Pseudomonas sp., Epibiotic on the seaweed, *Padina tetrastrumata*, off Southeastern coast of India, reveals antibacterial action. Appl Biochem Biotechnol 2013; 171:1968–85. doi: 10.1007/s12010-013-0473-y.

**Patents:**

A process of extraction of bio-active compounds exhibiting anticancer property from <i>Conus inscriptus</i> and product thereof Application No: E2/2723/2016/CHE CBR No: 23689	Complete specification	Mary Elizabeth Gnanambal. K., Christina. V. S, Shailaja. V. L and Lakshmi Sundaram. R
A process of extraction of bio-active compounds exhibiting anticancer property from <i>Cymodocea serrulata</i> and product thereof Application No: E2/2724/2016/CHE CBR No: 23690	Complete specification	Mary Elizabeth Gnanambal. K, Easwaramoorthy. R. Christina. V. S, Lakshmi Sundaram. R and Shailaja. V. L

Process of extraction of bioemulsifiers from <i>pseudomonas guguanensis</i> [Application number to be received]	Provisional specification	Mary Elizabeth Gnanambal Krishnan, Ramyadevi Koppampudur Chinnaraj, Lakshmi Raman Sundaram
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