



**Dr. C. BALALAKSHMI**

**Assistant Professor**

### Contact

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### Academic Qualification: M.Sc., M.Phil., Ph.D.

Degree	Year of Passing	University /Institute
B.Sc., Zoology	2000	Madurai Kamaraj University
M.Sc., Oceanography	2002	Alagappa University
M.Phil, Oceanography	2003	Alagappa University
Ph.D, Oceanography	2012	Alagappa University

### Teaching Experience:

Designation	Institution	Department	Duration
Assistant Professor	Alagappa University, Karaikudi	Nanoscience and Technology	January - 2016 to till date
Teaching Assistant	Alagappa University, Karaikudi	Animal Health and management	August 2013 to April 2014, and December 2015 to January 2016

## Research Experience: 09 Years

## Additional Responsibilities

S.No	Position	Organization
1.	Deputy Warden for Science Campus Womens hostel	Alagappa University
2.	Department Co-ordinator for National Service Scheme Programme	Alagappa University
3.	Treasurer, Department of Oceanography and Coastal Area Studies, Alumni Association	Alagappa University
4.	Member, Department Research Advisory committee	Alagappa University
5.	Member, Department Purchase Committee	Alagappa University
6.	Member, Department Board of Study committee	Alagappa University
7.	M.Phil-Nano Science & Technology-Class incharge	Alagappa University
8.	Department Co-ordinator for Swachh Bharat	Alagappa University
9.	Department Co-ordinator for Remedial coaching classes	Alagappa university

## Areas of Research

**Nano Marine Biology, Bio Nano Materials, Nano Medicine, Bio-Synthesis**

## Research Supervision / Guidance

	Program of Study	Ongoing
<b>Research</b>	<b>M.Phil.</b>	<b>01</b>
<b>Project</b>	<b>PG</b>	<b>01</b>

## Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
3	10	1	5	1

## Distinctive Achievements / Awards

1. Worked as a project fellow in the sethusamudram ship channel project (DCI)

## Events organized in leading roles

Parents Teachers Association organizing secretary in 2016 ( Nano science & Technology)  
Organizing Member: Nanomaterials for Specialized Applications NMSA-2017 during Feb.9& 10, 2017.

## Events Participated

### Conferences / Seminars / Workshops

#### List of Papers presented in international conferences / seminar/ workshop participated

Seasonal Variation and Distribution of Phytoplankton in Thondi Coastal Area –Palk strait (South East Coast of India) (Authors:C.Balalakshmi and C.Stella), ***Paper presented in a international seminar on Ecological Balance of Sethusamudram Canal at Thondi, Alagappa university. (october 2004)***

The Reproductive Biology of the clam, ***Gafrarium pectinatum and Gafrarium divaricatum***, from Thondi Coast,Palk Strait region, South-East Coast of India.(Authors:C.Balalakshmi and C.Stella), ***Paper presented in a National conference “ Biotechnological Approaches in Aquaculture” at Bharathiyar University, Coimbatore.( 1-3 February 2012)***

Preparation and Characterization of LiMn<sub>2</sub>O<sub>4</sub> , Electrodes using Polyol process.( Authors: Chinnasamy Balalakshmi, Karuppasamy Gurunathan and Arul Joseph Helen Therese) ***Paper presented in a First Symposium on Advanced Functional Materials (FUNMAT-2016) –***

***Energy Conversion and Storage- CSIR-Centro Electro chemical Research Institute, Karaikudi.( 26-28 may 2016)***

Detection of various Stages of reproduction in Clam *Gafrarium tumidum* and *Gafrarium dispar* collected from Thondi Coast (Authors:C.Balalakshmi,K.Gurunathan and C.Stella )***Paper presented in a International Conference “ Recent Trends in Biosciences ( ICRTB-2016) Alagappa University, Karaikudi ( 7-9 April 2016)***

Analytical Studies on Polystyrene Methylmethacrylate Poly (Sty-MMA)-Poly (Vinyl Chloride)Polymer electrolytes with lithium Salts.(Authors: C.Balalakshmi and K.Gurunathan)***Paper presented in a International Conference, “Frontier Areas in Chemical Technologies-2016 (FACTS-2016) Department of Industrial Chemistry, Alagappa University , Karaikudi. (21-23 march 2016)***

**2020- THE VISION OF KALAM – Abdul kalam in manitha neya sinthanaikal-Paper presented in a International journal of Zakir, -Volume -2 Special Issue:ISSN:2454-2938 (15-16 october 2015)**

Cellular and behavioural Toxicity changes assessment of Titanium ions and Nano particles on Zebrafish as a Modal organism –(Author-C.Balalakshmi) ***Paper presented in a One day National Seminar on Advance Materials Research, Department of Physics, Alagappa University, Karaikudi . (19 January 2017)***

Purification and characterization & Microbial inhibitions of carotenoids from fenneropenaeus indicas (Authors: C.Balalakshmi, S.Senthilnathan and J.Sivakamavalli) ***Paper presented in a International Conference on Recent Advances in Bioresource technology (RABT-2017), Thiruvalluvar University, Vellore. (15-17 February 2017)***

Facile synthesis of chitosan/Ag/ZnO nanomicelles and its biofilm inhibition against clinically relevant bacterial pathogens ( Authors : C.Balalakshmi and J.Sivakamavalli) ***Paper presented in a international conference on Renewable energy Science and Technology, , Department of energy science , Alagappa university,Karaikudi. (10-11 march 2017)***

Recent Advances on Surface Engineering of Magnetic – Hydroxyapatite Nanoparticles and their biomedical Application (Authors: C.Balalakshmi and J.Sivakamavalli) ***Paper presented in a International Conference, International Conference on Advance in Functional Materials (ICAFM-2017) Anna University, Chennai. (6<sup>th</sup> -8<sup>th</sup> January 2017)***

The development and applications of fermented Seaweed, nutrient digestability in giant freshwater shrimp (Authors: C.Balalakshmi, and G.Kanagavalli) ***Paper presented in a National Conference, New vistas in Indian Aquaculture, Chennai. (23-24, February -2012)***

Assessment of the Reproductive Dynamics of the Soft Shell clam *Gafrarium divaricatum* and *Gafrarium pectinatum* collected from Thondi Coastal waters, Palk Strait, South East Cost of India. (Authors:C.Balalakshmi and C.Stella) ***Paper presented in a international seminar on "Recent Trends in Aquatic animal Biotechnology" (RTAAB'2013) Department of Animal Health and Management, Alagappa university, Karaikudi. (21-22 october 2017)***

Synthesis of cell free extract based Silver Nanoparticles from Bacillus Species and its antibiofilm effects on Pathogenic Strains (Authors : Dr.C.Balalakshmi and Dr.K.Gurunathan) ***Paper presented in a International Conference on Recent Trends in Microbiology (RTM-2016)Department of microbiology,Alagappa University,Karai kudi***

***Two day National Level Faculty Development programme on Transformation &Distribution in Teaching – Learning Environment , Presented at the Dr. Umayal Ramanathan College for Women, (10th and 11th march 2017)***

Participated in a National Conference Titled ***"Recent Advances in Nanomaterials for Sensor Applications" (NANOSE-2014) Alagappa university, Karaikudi.(6-7 March 2014)***

Participated in a National Conference Titled ***"Advances in Environmental Research: An Interdisciplinary Approach" (Aeria'11) Annamalai university, Annamalainagar. (11-12 March 2011)***

Participated in a National Conference Titled ***"Bioprospecting of Marine Resources with special reference to marine Natural products and Drug Discovery Thondi campus, Alagappa university. (26-28, April 2007)***

Participated in a "National Conference Titled ***Exploring Commericalization of Biosensors in India***" held at ***Department of Bioeletronics & Biosensors, Alagappa University.( 14th March 2017)***

### **Other Training Programs**

1. Workshop on Molecular and Immunology Techniques attended at Life Tech Research center, vadapalani ,Chennai. (25-28 December 2004)
2. Science of Living, Academy of Human excellence (DST) Training programme attended at vadodara (GUJARAT) ( 9<sup>th</sup>-13<sup>th</sup> January 2017)
3. National level workshop on Gas Chromatography – attended at Department of Microbiology, Alagappa university , Karaikudi.( 15 December 2016)
4. National Workshop on Biosensors in Agricultural, Environmental and Medical Sciences attended at Department of Bioeletronics & Biosensors, Alagappa University (13 & 14 March 2017)

5. National workshop on “White LEDS for 21 Century Lighting System” – attended at Department of Chemistry, Thiagarajar college of Engineering, Madurai. (9th March 2017)
6. National World Standards Day –(WSD), organised as a member at Department of Nano Science&Technology, Alagappa University, Karaikudi (10<sup>th</sup> February 2017)
7. Two days National level Workshop & Short term Training programme on Micro Propagation and Business Commercialization of Indian Medicinal Plants (MDPBCIMP-2017) Department of Botany, Alagappa university, Karaikudi (30-31 January -2017)

## Membership in

### Professional Bodies

Life Member: Indian Science Congress Association, Kolkatta

## Recent Publications

1. New records of Pen Shells ( Bivalvia, Pinnidae) from seagrass beds of palk Bay area in Tamilnadu –Seaweed Res.Utiln,32(1&2):185-188,2010
2. New Distribution of *Siratus Virgineus ponderosus* (Sowerby, 1879) Family Muricidae, in Mandapam Coast, India ,World Journal of Zoology 6 (4):331-333,2011
3. Using Sem Studies on the Radular Morphology of *Chicoreus* Species (Gastropods:Muricidae) collected from Palk Bay in Tamilnadu-Ecology and Fisheries, Vol.4(2):73-78,2011
4. Four New Distributional Records of Bivalves species of Pectinidae family from Mandapam area –South-East Coast of India-proc.ICBAT,pp.17-20,2011