

## CURRICULUM VITAE

Name : **Dr. E. KANNAPIRAN**  
Father's Name : Ethiraj L  
Date of Birth : 11-02-1969  
Sex : Male  
Present Position : Professor of Zoology, DDE  
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Field of Specialization : Marine Biology and Oceanography  
Research Interests : Coral Reef Ecology and Microbiology

### ACADEMIC QUALIFICATION:

Course	Subject	University	Year of Completion	Class
Ph.D	Marine Biology and Oceanography	Annamalai University	1998	By thesis
M. Phil.	Marine Biology and Oceanography	Annamalai University	1994	First
M. Sc.	Marine Biology and Oceanography	Annamalai University	1992	First
B. Sc.	Zoology	Madurai Kamaraj University	1990	First

## **TEACHING EXPERIENCE:**

1. Lecturer (Adhoc), Oceanography and Coastal Area Studies, Alagappa University, from 28.12.1998 to 15.08.1999.
2. Lecturer, Dept. Oceanography and Coastal Area Studies, from 16.08.1999 to 15.08.2003.
3. Lecturer, Senior Scale, Dept. Oceanography and Coastal Area Studies, from 16.08.2003 to 11.08.2008.
4. Associate Professor in Zoology, Directorate of Distance Education, Alagappa University, 13.08.2008 to 12.08.2014.
5. Professor of Zoology, Directorate of Distance Education, Alagappa University, 13.08.2014 onwards.

## **AWARDS AND ACHIEVEMENTS**

- Distinguished Professor Award for the year of 2019 by DK International Research Foundation, Perambalur.

## **ADMINISTRATIVE/ ACADEMIC EXPERIENCE**

1. Head *i/c*, Department of Fisheries Science Alagappa University, Karaikudi, from 01.07.2020 onwards
2. Controller of Examination *i/c*, Alagappa University, Karaikudi, from 13.05.2020 onwards
3. Additional Controller of Examination, Alagappa University, Karaikudi, from 11.02.2020 to 12.05.2020
4. Dean, College Development Council Alagappa University, Karaikudi, from 04.03.2019 to 10.02.2020
5. Director, Curriculum Design and Development Cell, Alagappa University, Karaikudi, from 25.07.2018 to 10.02.2020
6. Member in College Committee of Sree Sevugan Annamalai College, Devakottai with effect from 09.02.2019.
7. Member of Project Monitoring Unit RUSA Phase 2.0, 2019.
8. Principal *i/c*, Alagappa University College of Arts and Science, Paramakudi from 13<sup>th</sup> to 20<sup>th</sup> July 2015.
9. Co-ordinator, Centre on Swachh Bharath and Swasth Bharath, Alagappa University, Karaikudi, from 26<sup>th</sup> November to 30.09.2016.

10. Co-ordinator, Personal Contact Programme for M.Sc., Zoology (Distance Education), Alagappa University, Karaikudi, from 28<sup>th</sup> October 2013 onwards.

## **COUNTRIES VISITED**

United States of America, Thailand, Japan, Singapore, UAE

## **RESEARCH EXPERIENCE**

1. **Junior Research fellow**, Research project entitled Biodiversity of Microflora (phytoplankton and bacteria) of the coral-reef environments of Gulf of Mannar sponsored by Ministry of Environment and Forest, Government of India from 19.05.94 to 18.05.96.
2. **Senior Research Fellow**, Research project entitled Biodiversity of Microflora (phytoplankton and bacteria) of the coral-reef environment of Gulf of Mannar sponsored by Ministry of Environment and Forest, Government of India from 19.05.1996 to 18.05.1997.
3. **Senior Technical Assistant**, Research project, Geographical Information System based Data and information on population and Distribution of Culturable Microorganisms in Gulf of Mannar, sponsored by Department of Ocean Development from 1<sup>st</sup> May 1998 to 27<sup>th</sup> December 1998.
4. **Senior Technical Assistant**, Environmental impact assessment studies from Saharinati and Harne, Ratnagiri District, Maharashtra, India, sponsored by Water Power Consultancy Engineering Service Ltd., Delhi, 1998.
5. **Senior Technical Assistant**, Environmental impact assessment studies from Cuddalore coastal waters, Tamil Nadu, India, sponsored by Water Power Consultancy Engineering Service Ltd., Delhi, 1998

## **RESEARCH PAPERS PUBLISHED:**

1. Kannapiran E, Paterson JK. 1996. Breeding biology of Babylon snail *Babylonia spirata* (Linnaeus) (Mollusca: Neogastropoda: Buccinidae). Indian Journal of Marine Science 25: 368-370, ISSN 0379-5136, Impact factor 0.328.
2. Kannapiran E, Kannan R, Kannan L. 1997. Immobilization of *Nitzschia obtuse* (W. Smith) for stock culture management. Journal of Seaweed Research and Utilization 19 (1&2): 67-73, ISSN 0971 – 7560.

3. Dalmin G, Purushothaman A, Kannapiran E, Sankar G, Srinivasan K. 1997. Microbiology of a shrimp pond with reference to total heterotrophic, coliform and beneficial bacteria. Proceeding of the National Seminar on Water Quality Issues in Aquaculture Systems, p. 9-14.
4. Kannapiran E, Purushothaman A, Kannan L, Saravanan S. 1999. Magneto bacteria from estuarine, mangrove and coral reef environs of Gulf of Mannar. Indian Journal of Marine Science 28:332-334, ISSN 0379-5136, Impact factor 0.328
5. Ponmariappan S, Kannapiran E, Stella C, Mathiyarasu J, Maruthamuthu S. 1999. Microfouling on copper and monel in seawater. Indian Journal of Microbiology 39: 113-118. ISSN: 0046-8991, IF: 1.830
6. Kannapiran E, Nithyanandan M. 2002. Antibacterial activity of different fractions of extracts from Palk Bay seaweeds. Journal of Seaweed Research and Utilization 24: 125-130, ISSN 0971 – 7560.
7. Ganesh Babu T, Nithyanand P, Kannapiran E, Veeraravi A, Karutha Pandian S. 2004. Molecular identification of bacteria associated with the coral reef ecosystem of Gulf of Mannar Marine Biosphere Reserve using 16S rRNA sequences. Proceedings of MBR 2004 National Seminar on New Frontiers in Marine Biosciences pp 47-53.
8. Paniadima A, Kannapiran E, Vareethiah K. 2006. Seasonal variation of phytoplankton in Chinnathurai Coast along southwest coast of India. Journal of Marine Biological Association of India 48 (2): 161-165. ISSN - 0025-3146.
9. Kannapiran E, Kannan L, Purushothaman A, Thangarajdou T. 2008. Physico-chemical and microbial characteristics of the coral reef environment of the Gulf of Mannar marine biosphere reserve. Journal of Environmental Biology 29(2): 215-222, ISSN: 0254-8704. IF: 0.781.
10. Kannapiran, Ravindran J, Chandrasekar R, Kalaiarasi A. 2009. Studies on Luminous *Vibrio harveyi* associated with shrimp culture system rearing *Penaeus monodon*. Journal of Environmental Biology 30(5): 791-795. ISSN: 0254-8704. IF: 0.781.
11. Hari Muraleedharan, Kannapiran E, Kalaigandhi V, Michale A. 2009. Antibiotic sensitivity test against *Vibrio* sp. isolated from Ramewam island. Scientific transactions in environment and technovation 3(2): 64 – 68. ISSN: 0973-9157.
12. Hari Muraleedharan, Kalaigandhi V, Kannapiran E. 2009. Microfouling of Manganese - oxidizing microorganisms in Rameswaram Coastal Waters, Nature Precedings: Published online, doi:10.1038/npre.2009.3777.1.

13. Ravindran J, Geetha Priya G, Kannapiran E. 2009. Effect of Concentrating and Exposing the Bioluminescent Bacteria to the Non-Luminescent algal – Bacterial Extracellular Products on their Luminescence. *Journal of Luminescence* 26: 23–28. IF: 3.280
14. Kalaigandhi V, Kannapiran E, Harimuraleedharan, Michael A, Sivakumar T, Thirumal Arasu V. 2010. *Azotobacter* population in Rhizosphere and Non- Rhizosphere sediments of Thondi Coast. *International Journal of Biological Technology* 1(1): 63-65. ISSN: 0976-4313
15. Shri Muraleedharan, Kannapiran E, Kalaigandhi V, Michael A. 2010. Ecology of total heterotrophic bacterial population from Rameswaram Island (Palk Bay), Southeast coast of India. *International Journal on Applied Bioengineering* 4(1): 7-13. ISSN: 0973-9084.
16. Kalaigandhi V, Kannapiran E, Hari Muraleedharan, Thirumaali Arasu V. 2010. Molecular screening of marine *Azotobacter sp.* using *nifH* gene. *Advanced Biotech* 10 (3): 33-35.
17. Kalaigandhi V, Kannapiran E, Hari Muraleedharan, Michael A. 2011. *nifH* gene of reference being the source to study the marine *Azotobacter sp.* *Scientific Transactions in Environment and Technovation* 5(1): 37 - 42.
18. Kalaigandhi V, Kannapiran E. 2011. Qualitative and quantitative examination of plant growth hormone production using *Azotobacter* isolated from seagrass ecosystem of Thondi. *Asian Journal of Microbiology, Biotechnology & Environmental Sciences* 13(4):1-6.
19. Prakash S, Kannapiran E, Ramasubburayan R, Iyapparaj P, Ananthi S, Palavesam A, Immanuel G. 2011. Production and partial purification of protease by selected bacterial strains using raw milk as substrate. *Malaysian Journal of Microbiology* 7(4): 192-200.
20. Sri Ramkumar V, Kannapiran E. 2011. Isolation of total heterotrophic bacteria and phosphate solubilizing bacteria and *in vitro* study of phosphatase activity and production of phytohormones by PSB. *Archives of Applied Science Research* 3(5): 581-586. ISSN 0975-508X).
21. Sri Ramkumar V, Kannapiran E, Palanisamy M. 2011. Prevalence and distribution of total heterotrophic bacteria from Kottaipattinam coast, Palk Strait, Southeast coast of India, *Archives of Applied Science Research* 3 (5):593-598 (ISSN 0975-508X).
22. Kannapiran E, Sri Ramkumar V. 2011. Isolation of phosphate solubilizing bacteria from the sediments of Thondi coast, Palk Strait, Southeast coast of India. *Annals of Biological Research* 2(5): 157-163 (ISSN 0976-1233).

23. Kannapiran E, Sri Ramkumar V. 2011. Inoculation effect of nitrogen-fixing and phosphate-solubilizing bacteria to promote growth of black gram (*Phaseolus mungo* Roxb; Eng). *Annals of Biological Research* 2 (5): 615-621 (ISSN 0976-1233).
24. Sri Ramkumar V, Kannapiran E, Magesh M. 2011. Variations in heterotrophic bacteria and phosphate solubilizing bacteria from Karangadu and Devipattinam coast, Palk Strait, Southeast coast of India. *Annals of Biological Research* 2 (5): 602-609 (ISSN 0976-1233).
25. Ravindran J, Kannapiran E, Manikandan B, Mani Murali R, Anthony Joseph K. 2012. Bleaching and secondary threats on the corals of Palk Bay: A survey and proactive conservation needs. *Indian Journal of Geo-Marine Sciences* 41(1): 883-890. ISSN 0379-5136. Impact factor 0.328
26. Kannapiran E, Ravindran J. 2012. Dynamics and diversity of phosphate mineralizing bacteria in the coral reefs of Gulf of Mannar. *Journal of Basic Microbiology* 52: 91–98. IF:1.909
27. Kannapiran E, Ahila NK. 2012. Coral Diseases: An Overview. Proceedings of the National Conference on Aquatic Animal Health and Management held at Faculty of Marine Sciences, CAS in Marine Biology, Annamalai University, Parangipettai, from 14 to 15.09.2012, 32-36.
28. Prakash S, Ahila NK, Ravikumar S, Kannapiran E. 2013. Phenotypic and Genotypic Probing of Biofertilizing Halotolerant *Azospirillum Spp.* and *Bacillus Spp.* *Middle-East Journal of Scientific Research* 15 (1): 128-133. ISSN 1990-9233.
29. Ravindran J, Kannapiran E, Manikandan B, Francis K, Shruti Arora, Karunya E, Amit Kumar, Singh SK, Jiya Jose. 2013. UV-absorbing bacteria in coral mucus and their response to simulated temperature elevations. *Coral Reefs* 32: 1043–1050. ISSN 0722- 4028, IF: 3.662.
30. Ahila NK, Kannapiran E, Ravindran J, Sri Ramkumar V. 2014. Studies on methanogenic consortia associated with mangrove sediments of Ennore. *Journal of Environmental Biology. Journal of Environmental Biology*, vol.35; 649-654. ISSN 0254- 8704, IF: 0.781.
31. Prakash S, Ravikumar S, Reddy KVR, Kannapiran E. 2014. Spermicidal activity of Indian seaweed: An in vitro study. (Blackwell Verlag GmbH). *Andrologia* 46(4): 408- 416. IF: 1.951
32. Sri ramkumar V, Prakash S, Muthukkumarasamy S, Ahila NK, Ravindran J, Kannapiran E. 2014. Synthesis and characterization of silver and gold nanoparticles using aqueous extract of seaweed, *Turbinaria conoides* and their anti-microfouling activity. *The Scientific World Journal* 938272. ISSN 1537-744X

33. Prakash S, Ramasubburayan R, Iyapparaj P, Ahila NK, Sri Ramkumar V, Palavesam A, Immanuel G, Kannapiran E. 2015. Influence of physicochemical and nutritional factors on bacterial diversity in mangrove sediments along the southwest coast of Tamilnadu, India. *Environmental Monitoring and Assessment* 187:562. ISSN: 0167-6369. IF: 1.903
34. Prakash S, NK Ahila, V Sri Ramkumar, Ravindran J, Kannapiran E. 2015. Antimicrofouling properties of chosen marine plants: An eco-friendly approach to restrain marine microfoulers. *Biocatalysis and Agricultural Biotechnology* 4(1): 11-121. ISSN: 1878-8181
35. Prabhu NM, Rajseker P, Nisha RG, Yasminebegam A, Kannapiran E, Manikandan R. 2016. Effect of turmeric on shrimp (*Penaeus semisulcatus*) shelf life extension in chilled storage condition. *Iranian Journal of Fisheries Sciences* 15(1): 39-52. ISSN:1562-2916, IF: 0.711
36. Sri Ramkumar V, Prakash S, Ramasubburaya R, R. Baburajendran, Kannapiran E, 2016. Seaweeds: A Resource for Marine Bionanotechnology. *Enzyme and Microbial Technology*. ISSN: 0141-0229, IF:3.448
37. Prakash S, Kannapiran E. 2016. In vitro - Scientific evaluation on antimicrobial, antioxidant, cytotoxic properties and phytochemical constituents of traditional coastal medicinal plants. *Biomedicine & Pharmacotherapy* 83:648–657, IF: 4.545
38. Ahilaa NK, Sri Ramkumar V, Prakash S, Manikandan B, Ravindran J, Dhanalakshmi PK, Kannapiran E. 2016. Synthesis of stable nanosilver particles (AgNPs) by the proteins of seagrass *Syringodium isoetifolium* and its biomedical properties. *Biomedicine & Pharmacotherapy* 84:60–70, ISSN: 0753-3322. IF: 4.545.
39. Manikandan R, Beulaja M, Thiagarajan R, Palanisamy S, Gouthama G, Koodalingam A, Prabhu NM, Kannapiran E, Jothi Basu M, Arulvasu C, Arumugam M. 2017. Biosynthesis of silver nanoparticles using aqueous extract of *Phyllanthus acidus* L. fruits and characterization of its anti-inflammatory effect against H<sub>2</sub>O<sub>2</sub> –exposed rat peritoneal macrophages. *Process Biochemistry* 55: 172-181. ISSN: 1359-5113. IF: 2.952
40. Palanisamy S, Anjali R, Rajasekar P, Kannapiran E, Vaseeharan B, Prabhu NM. 2017. Synthesis and distribution of bioinspired silver nanoparticles using Spirulina Extract for control of *Vibrio parahaemolyticus* infection in Aquaculture. *Asian Journal of Chemistry*, 29 (4): 857-863. ISSN: 0970-7077, IF: 0.355
41. Vijayan Sri Ramkumar, Arivalagan Pugazhendhi, Kumar Gopalakrishnan, Periyasamy Sivagurunathan, Ganesh Dattatraya Saratale, Thi Ngoc Bao Dung, Ethiraj Kannapiran 2017. Biofabrication and characterization of silver nanoparticles using aqueous extract of seaweed

- Enteromorpha compressa* and its biomedical properties. *Biotechnol Rep (Amst)* 14: 1–7. doi: 10.1016/j.btre.2017.02.001.
42. Ahila AK, Prakash S, Sriram V, Manikandan M, Prabhu NM, Ravindran J, Kannapiran E. 2017. Bio prospecting of coral (*Porites lutea*) mucus associated bacteria, Palk Bay Reefs, Southeast Coast of India. *Elsevier, Microbial Pathogenesis*. 113: 113-125. IF:2.914.
  43. Malaikozhundan B, Vijayakumar S, Vaseeharan B, Jenifer AA, Chitra P, Prabhu NM, Kannapiran E. 2017. Two potential uses for silver nanoparticles coated with *Solanum nigrum* unripe fruit extract: Biofilm inhibition and photodegradation of dye effluent. *Microbial pathogenesis* 111: 316-324 IF: 2.914
  44. Sri Ramkumar V, Prakash S, Selvam S, G. Vinoj, Ahila NK, Kannapiran E, R. Babu Rajendran. 2017. Synthesis of Platinum nanoparticles using seaweed *Padina gymnospora* and their catalytic activity as PVP/PtNPs nanocomposite towards biological applications. *Elsevier, Biomedicine and Pharmacotherapy*. 92: 479-490. IF: 4.545.
  45. Nisha Rajagopalan Girijakumari, Kannapiran Ethiraj, Prabhu Narayanasamy Marimuthu. 2018. In vitro and in vivo evaluation of probiotic properties of *Enterobacter cloacae* in Kenyi cichlid, *Maylandia lombardoi*. *Aquaculture International* <https://doi.org/10.1007/s10499-018-0262-2>. 26(4) 959-980. IF:1.363
  46. Mookkan Bodhaguru , Santhiyagu Prakash, Ramasamy Ramasubburayan, Natarajan Kumari Ahila Lakshmanan Mariselvam, Grasian Immanuel, Arunachalam Palavesam, Ethiraj Kannapiran. 2019. Screening, partial purification of antivibriosis metabolite sterol-glycosides from *Rhodococcus sp.* against aquaculture associated pathogens. *Microbial Pathogenesis* 134: 1-11.03597. <https://doi.org/10.1016/j.micpath.2019.103597>. IF: 2.914
  47. Kannan K. Kannapiran E., Prabhu NM. 2019. New geographical record of the moray eel *Gymnothorax reticularis*, bloch, 1795 (Anguilliformes: Muraenidae) with Taxonomic status and Distribution from Southwest coast of India. *Thalassas: An International Journal of Marine Sciences* 35(2): 567-571. IF: 0.657
  48. K. Kannan, Kannapiran E, Prabhu NM. 2019. Record of “Near Threatened “crocodile shark *Pseudocarcharias kamoharai* (Pseudocarchariidae) from Indian Exclusive Economic Zone. Accepted in *Thalassas: An International Journal of Marine Sciences* 35(2): 525-530. IF: 0.657
  49. Mookkan Bodhaguru, Prakash Santhiyagu, Mariselvam Lakshmanan Ramasubburayan Ramasamy, Ahila Natarajan Kumari, Kannapiran Ethiraj Palavesam Arunachalam, Immanuel Grasian. 2019. Invitro biomedical properties of Pyrrolidine-2,4- Dione derived from a novel



- actinobacterium *Streptomyces rochei*, a green approach. *Biocatalysis and Agricultural Biotechnology* 20: 1-11
50. Manoharan Vinosha, Subramanian Palanisamy, Ramasamy Muthukrishnan, Samayanan Selvam, Ethiraj Kannapiran, Sang Gyuan You, Narayanasamy Maraimuthu Prabhu. 2019. Biogenic synthesis of gold nanoparticles from *Halymenia dilatata* for pharmaceutical applications: Antioxidant, anti-cancer and antibacterial activities. *Process Biochemistry* 85: 220-229. IF:2.952
51. Avudaiyan Muthamil Selvi, Subramanian Palanisamy, S, Jeyanthia, ManoharanVinoshaa, Sonaimuthu Mohandoss, Mehdi Tabarsae, SangGuan You, Ethiraj Kannapiran, Narayanasamy Marimuthu Prabhu. 2020. Synthesis of *Tragia involucrata* mediated platinum nanoparticles for comprehensive therapeutic applications: Antioxidant, antibacterial and mitochondria-associated apoptosis in *HeLa* cells. *Process Biochemistry* 98: 21-33 <https://doi.org/10.1016/j.procbio.2020.07.008>. IF:2.952
52. Rajasekar P, Palanisamy S, Vinosha M, Selvi, A Muthamil, Anjali R, Kannan K, Kannapiran E, Prabhu, N M. 2020. Effect of turmeric and *Spatoglossum asperum* on shelf life extension of marine finfish *Sillago sihama* in chilled storage condition. *Indian Journal of Geo-Marine Sciences* 49(05): 829-838. IF:0.328
53. Madhuri K, Divya D, Vinita M, Kannapiran E, Malaikozhundan B, Kumar R. 2020. Assessment of the effect of green synthesized silver nanoparticles against aquatic pathogen *Aeromonas hydrophila* using *Artemia* nauplii. *Indian Journal of Geo-Marine sciences* 49 (12): 1831-1838. (IF: 0.328)
54. Kannan K, Kannapiran E, Paramasivam K, Kumar R, Madhuri K, Divya D. 2020. Length-weight relationships of three Clupeiformes species from the Southeast coast of India, Bay of Bengal, Eastern Indian Ocean. *Journal of Applied Ichthyology* 36 (6): 860-862. (IF: 0.612). <https://doi.org/10.1111/jai.14092>
55. Madhuri K, Divya D, Kumar R, Kannan K, Malaikozhundan B, Kannapiran E (2020). Pharmacological activities of coral reef associated actinomycetes, *Saccharopolyspora* sp. IMA1. *Biocatalysis and Agricultural Biotechnology* 28: 101748. <https://doi.org/10.1016/j.bcab.2020.101748>
56. Divya D, Madhuri K, Kumar R, Kannan K, Ravindran J, Kannapiran E. 2020. Protein leakage induced marine antibiofouling activity of biosynthesized zinc oxide nanoparticles. *Journal of Cluster Science* 32: 643–650. IF: 3.061. <https://doi.org/10.1007/s10876-020-01827-2>.

57. Kumar R, Latha P, Madhuri K, Sen S, Divya D, Kannan K, Kannapiran E. 2021. Toxicological evaluation of biosynthesised hematite nanoparticles *in vivo*. *Colloids and Surfaces B: Biointerfaces* 198: 111475. IF: 4.389. <https://doi.org/10.1016/j.colsurfb.2020.111475>
58. Divya D, Madhuri K, Kumar R, Kannan K, Jeyameenakshi A, Karthick Rajan D, Prakash S, Kannapiran E. 2021. Antibacterial and cytotoxicity activities of biosynthesized silver oxide (Ag<sub>2</sub>O) nanoparticles using *Bacillus paramycoides*. *Journal of Drug Delivery Science and Technology* 61: 102111. IF: 2.734. <https://doi.org/10.1016/j.jddst.2020.102111>
59. Kannan K, Kodeeswaran P, Kumar R, Madhuri K, Divya D, Kannapiran E. 2021. Length-weight relationship of Coral reef-associated fishes from Gulf of Mannar and Palk Bay, Southeast Coast of India. *Journal of Applied Ichthyology* 37 (1): 162-164. IF: 0.612. <https://doi.org/10.1111/jai.14102>
60. Kannan K, Sivaranjani S, Kumar R, Karuppasamy K, Prabhu NM, Kannapiran E. 2021. Length-weight relationship of six demersal fish species from Gulf of Mannar, Bay of Bengal, Eastern Indian Ocean. *Journal of Applied Ichthyology* 37 (2): 367-369. IF: 0.612. <https://doi.org/10.1111/jai.14177>.
61. Kannan K, Kannapiran E, Sivaranjani S, Kumar R, Madhuri K, Divya D (2021). Weight-length relationships and Fulton's condition factors of ten commercially important Scombridae fish species in Southeast coast of India, Bay of Bengal. *Thalassas: An International Journal of Marine Sciences*. (IF: 0.620). <https://doi.org/10.1007/s41208-021-00390-5>
62. G.V. Geetha, R. Sivakumar, Y. Slimani, C. Sanjeeviraja, E. Kannapiran (2022). Rare earth (RE: La and Ce) elements doped ZnWO<sub>4</sub> nanoparticles for enhanced photocatalytic removal of methylene blue dye from aquatic environment. *Physica B: Condensed Matter*, 639, 414028.

#### **BOOK CHAPTERS**

1. Ahila NK, A. Pugazhendhi, Sutha Shobana, Indria K, Indira Karuppusamy, Sri Ramkumar V, Kannapiran E, P. Sivagurunathan. 2018. Multifaceted Applications of Nanoparticles and Nanocomposites decorated with biopolymers. In: *Biocomposites: Biomedical and Environmental Applications*, Pan Stanford Publishing Ltd.
2. Kumar R., Latha P, Kannapiran E (2021). Biodegradation and Bioremediation of S-Triazine Herbicides. In: Gothandam KM, Ranjan S, Dasgupta N, Lichtfouse E (Eds.), *Environmental Biotechnology Vol. 3* (Book series: Environmental Chemistry for a Sustainable World, vol 50. Springer, Cham. ISBN: 978-3030489724, pp 31-54. [https://doi.org/10.1007/978-3-030-48973-1\\_2](https://doi.org/10.1007/978-3-030-48973-1_2).

3. Kumar R, Divya D, Madhuri K, Kannan K, Kannapiran E (2021). Nutraceutical sector and nano-medicine. In: Verpoort F, Ahmad A, Ahmad I, Khan A, Chee CY (Eds.), *Nanomedicines Manufacturing and Applications* (Book series: Micro and Nano Technologies). Elsevier, Netherlands. ISBN: 9780128207734. pp 321-336. <https://doi.org/10.1016/B978-0-12-820773-4.00014-7>.
4. Kumar R., Latha P, Madhuri K, Divya D, Kannan K, Kannapiran E (2022). Toxicity of Nanomaterials. In: Verpoort F, Ahmad A, Khan A, Sanjay MR, Ali S (Eds.), *Nanomaterials- based Electrochemical Sensors: Properties, Applications and Recent Advances*. Elsevier, Netherlands. ISBN: 9780128225127

## **ARTICLES**

1. Kalaigandhi V and Kannapiran E (2007). Management of Diabetes. *Wide spectrum, Science Magazine*, 3(4): 21-22.
2. Kalaigandhi V and Kannapiran E (2007). Molecular mechanisms of learning. *Wide spectrum, Science Magazine*, 3(5): 23-24.
3. Kalaigandhi V and Kannapiran E (2007). Rheumatoid arthritis and Turmeric. *Wide spectrum, Science Magazine*, 3(6): 15-16.
4. Kalaigandhi V and Kannapiran E (2007). Osteoporosis (Loss of Bone). *Wide spectrum, Science Magazine*, 3(6): 17-19.

## **BOOK PUBLISHED**

1. Kalaigandhi, V, V. Thirumalai Arasu and E.Kannapiran, 2010. *An essential Lab Manual of Microbiology Techniques*, Publisher by UVN Publisher, Sivakasi, ISBN : 9788190934558.
2. Kannapiran E., 2010, *Practical Manual on Fisheries And Aquaculture*, for M.Sc. Zoology Programme, Directorate of Distance Education, Alagappa University, Karaikudi.
3. Kannapiran E., 2010, *Course Matériel on Environnemental Biology (Two Chapters)* for M.Sc. Zoology Programme, Directorate of Distance Education, Alagappa University, Karaikudi
4. Kannapiran E, Prabhu NM, 2017(Revised), *Course Material on Fisheries And Aquaculture*, for M.Sc. Zoology Programme, Directorate of Distance Education, Alagappa University, Karaikudi
5. Kannapiran E, Prabhu NM, 2017, (Revised). *Practical Manual on Fisheries And Aquaculture*, for M.Sc. Zoology Programme, Directorate of Distance Education, Alagappa University, Karaikudi.
6. Kannapiran E., 2017, (Revised) *Course Matériel on Environnemental Biology (Two Chapters)* for M.Sc. Zoology Programme, Directorate of Distance Education, Alagappa University, Karaikudi

7. Kannapiran E., 2017, Practical Manual Animal Diversity, Cell and Molecular Biology for M.Sc. Zoology Programme, Directorate of Distance Education, Alagappa University, Karaikudi

#### **TRAINING PROGRAMME/SUMMER COURSE ATTENDED:**

1. Attended the STORMCUP (Short Training On Research in Marine Cyanobacteria Utilization Program). Organized by National Facility for Marine Cyanobacteria, Bharadhidasan University, Trichirapalli, India, From 6 to 18 February 1995.
2. Attended the Orientation course organized by University Grand Commission-Academic Staff College, Pondicherry University, Pondicherry from 18.01.2001 to 14.02.2001.
3. Attended the Refresher course on Industrial Biotechnology, organized by Department of Chemical Engineering, Annamalai University, Chidambaram, from 3<sup>rd</sup> to 27<sup>th</sup> November 2004.
4. Attended the Refresher course on Life Sciences, organized by Department of Marine Biology, Microbiology and Biochemistry, Cochin University of Science and Technology, Cochin, from 19.02.2007 to 10.03.2007.
5. Attended the International workshop on DNA Bar-Coding of Marine Life, organized by National Bureau of Fish Genetic Resources, Lucknow from 16.04.2007 to 21.04.2007.
6. Undergone a special training programme on under water SCUBA diving organized by PAD from 8 to 11<sup>th</sup> February, 2011 held at Vembar.
7. Attended DBT sponsored Training Programme on “Molecular Biology Techniques in Microbiology” at CFTRI, Mysore from 16.11.2011 to 02.12.2011.
8. Attended the SAKSHAM-IT Champion Training Programme organized by Microsoft in collaboration with Computer Centre of Alagappa University from 19<sup>th</sup> to 25<sup>th</sup> January 2015.
9. Attended the training programme on Business opportunities in Aquaculture and Vermiculture Technology, organized by Dept. of Animal Health and Management and University Business Collaboration Centre during 02-08<sup>th</sup> March 2018.

#### **PAPER PRESENTED/ CHAIR PERSONS IN THE CONFERENCES**

1. Attended the National Seminar on Conservation and Sustainable Development of Coastal Resources and presented a paper entitled ‘Immobilization of *Nitzschia obtuse* (W. Smith) for stock culture management’. Organized by Berhampur University, Berhampur, India, from 14<sup>th</sup> to 17<sup>th</sup> December 1994.

2. Attended the National Symposium on Algal Potential and its Exploitation, and presented the papers on Diversity of Mangroves and Seaweeds from Gulf of Mannar Biosphere Reserve. Organized by Seaweed Research and Utilization Association, Mandapam, venue: The American college, Madurai, from 27 to 29<sup>th</sup> December 1995.
3. Attended the International conference on Globalization and sustainable development: Perspectives of Digital Revolution and Environmental Management and presented a paper entitled “ Bacterial colonization on the mucus of hard corals from Gulf of Mannar Marine Biosphere Reserve, organized by Department of Earth Science, Tamil University, Thanjavur, from 23 to 25<sup>th</sup> August 2002.
4. Attended the National Seminar on Reef Ecosystem Remediation and presented a paper entitled Abundance and distribution of phosphatase producing bacteria from the coral reef environment of the Gulf of Mannar, Southeast Coast of India organized by Suganthi Devadason Marine Research Institute, Tuticorin from 24 to 26 September 2003.
5. Attended the National Seminar on New Frontiers in Marine Biosciences organized by National Institute of Ocean Technology, Chennai, from 23 to 24<sup>th</sup> January 2004 and presented a paper entitled Molecular identification of bacteria associated with the coral reef ecosystem of Gulf of Mannar Marine Biosphere Reserve using 16S rRNA sequences.
6. Presented a paper entitled ”Screening of *Vibrio* sp., from coastal area” in the National Seminar on Microbial technology, organized by Department of Microbiology, Dr. G.R. Damodaran College of Science, Coimbatore from 12 to 13<sup>th</sup> February 2004
7. Presented a paper entitled “Antibacterial activity of Different fractions of extracts from Palk Bay seahorses” in the National Seminar on Ecological Balance and Sethusamudram canal, organized by the Department of Oceanography and Coastal Area Studies, Alagappa University between 1 and 3<sup>rd</sup> October 2004.
8. Presented a paper entitled Fungal diversity from Vattanam Mangrove Forest, Palk Bay, southeast coast of India in the National Seminar on Ecological Balance and Sethusamudram canal, organized by the Department of Oceanography and Coastal Area Studies, Alagappa University between 1 and 3<sup>rd</sup> October 2004.
9. Presented a paper entitled “Study of Lignocellulolytic organisms for the production of protein from the lignocellulose waste materials in the National Seminar on Ecological Balance and Sethusamudram canal, organized by the Department of Oceanography and Coastal Area Studies, Alagappa University between 1 and 3<sup>rd</sup> October 2004.

10. Presented a paper entitled Potential Role of Nutraceuticals in the National Seminar on Nutraceuticals: Status and Prospects, organized by School of Biotechnology, Dr. G. R. Damodaran College of Science from 23 to 24<sup>th</sup> September 2005
11. Attended the National Seminar on Bioprospecting of Marine Resources with Special Reference to Marine Natural Products and Drug Discovery and presented a paper entitled Antibacterial activity of marine micro algae from Chinnathurai coast, West coast of India, organized by Dept. of Oceanography and Coastal Area Studies, Alagappa University, held at Karaikudi between 26 to 28<sup>th</sup> April 2007.
12. Attend the National Seminar on Pollution Hazards and Marine Fishery Resources Management, organized by Fisheries College and Research Institute, Tuticorin, between 25 and 26<sup>th</sup> October 2007, and presented a paper entitled” Prevalence of Streptococci, *Salmonella* and *Vibrio* in edible finfishes and prawns collected from the markets of Southern Tamil nadu.
13. Attend the National Seminar on Pollution Hazards and Marine Fishery Resources Management, organized by Fisheries College and Research Institute, Tuticorin, between 25 and 26<sup>th</sup> October 2007, and presented a paper entitled”Studies on luminous *Vibrio harveyi* associated with shrimp culture system, rearing *Penaeus monodon*, Plak Bay, Southeast coast of India.
14. Attended the International Colloquium on Emerging Biotechnologies in Agriculture, Animal Health and Productivity (ICEB 09) and presented a paper on “Effect of Concentrating and Exposing the Bioluminescent Bacteria to the Non Luminescent allo – Bacterial Extracellular Products on their Luminescence” organized by School of Biosciences, Alagappa university, Karaikudi between 22 and 26<sup>th</sup> February 2009.
15. Attended the International seminar on Applications of Confocal Microscopic Techniques in Animal Health Management and presented a paper on Coral Reefs Health Monitoring and Missing Facts, organized by School of Animal Health and Managent, Alagappa University, Karaikudi between 29 and 30<sup>th</sup> March 2010.
16. Attended the International conference on Aquatic microbiology (Status, Challenges and Opportunities), organized by Centre of Advanced Study in Marine Biology, Faculty of Marine Sciences, Annamalai University, from 2<sup>nd</sup> to 4<sup>th</sup> September 2010.
17. Chaired a session and presented a research paper entitled Studies on methanogenic consortia associated with mangrove sediments of Ennore in the National seminar on Recent Trends in

- Microbial technology with reference to Extremophiles organized by Dept. of Microbiology, Periyar University, Salem – 636 011 during 21-22 October 2010.
18. Attended the National workshop on Expansion and Enrichment of Distance Learning, organized by Directorate of Distance Education, Alagappa University from 27<sup>th</sup> and 28<sup>th</sup> March 2012.
  19. Attended the International Conference on Recent Advances in Textile and Electrochemical Sciences-2013 and presented a research paper entitled “Biosynthesis and characterization of Gold Nanoparticles Using Aqueous Extract of Seaweed *Hypnea valentiae*”, organized by Department of Industrial Chemistry, Alagappa University, Karaikudi, during 21<sup>st</sup> to 23<sup>rd</sup> March 2013.
  20. Attended the International Seminar on Recent Trends in Aquatic Animal Biotechnology (‘RTAAB’) and presented a research paper entitled “Antagonic bacteria from the epidermal mucus of *Channa striata* (Snake head murrel), organized by Department of Animal Health and Management, Alagappa University, Karaikudi, during 21<sup>st</sup> to 22<sup>nd</sup> October 2013.
  21. Attended the International conference on Recent Trends in Biosciences, organized by Dept. of Biosciences, Alagappa University from 7<sup>th</sup> – 9<sup>th</sup> April, 2016 and presented a research paper on Antagonistic activity of the ethanolic extracts of brown seaweed *Sargassum tenerrimum* against aquaculture pathogen *Vibrio harveyi*.
  22. Attended the International conference on Recent Trends in Biosciences, organized by Dept. of Biosciences, Alagappa University from 7<sup>th</sup> – 9<sup>th</sup> April, 2016 and presented a research paper on Effect of probiotic bacteria on growth, color enhancement and anti-infective potential of ornamental fish *Puntigrus tetrazona*
  23. Attended the National Conference on “Recent Trends in Nanotechnology and Aquaculture Technologies” organized by Department of Fishery Science and Aquaculture, Sri Venkateswara University, Tirupati between 18-19<sup>th</sup> August 2016 and presented the following papers:
    - a. Palanisamy S, R.Anjali, M. Thillai eswari, V.Nithya, A.Veera Ravi, E.Kannapiran and Prabhu NM entitled Green synthesis of *Cladophora fascicularis* mediated silver nanoparticles for their anti-bacterial efficacy against *Aeromonas hydrophila*.
    - b. Anjali R, K.Madhuri, A.Muthamilselvi, P.Kumar, E.Kannapiran and N.M.Prabhu entitled Antagonistic activity of AgNPs synthesized from marine algae *Caulerpa sertularioides* against aquaculture pathogen *Vibrio parahaemolyticus*.

- c. Rajasekar P, V. Prithailashree, B. Malaikozhundan, M. Biruntha, E. Kannapiran and N.M.Prabhu Enhancing the nutritive value of *Chlorella vulgaris* for ornamental finfish larval production.
24. Chaired a session in the International Conference on “Recent Trends in Microbiology” (RTM – 2016) during 20<sup>th</sup> and 21<sup>st</sup> December, 2016 organized by our Department of Microbiology, Alagappa University.
  25. Chaired a session in the International Conference on Renewable Energy Science and Technology, during 10<sup>th</sup> & 11<sup>th</sup> March 2017, organized by the Dept. of Energy Science, Alagappa University, Karaikudi.
  26. Chaired a Session in the 3<sup>rd</sup> International Conference on Recent Trends in Microbiology, organized by the Dept. of Microbiology, Alagappa University, Karaikudi, held on 24-25<sup>th</sup>, January 2019.
  27. Chaired a Session in the 2<sup>nd</sup> International Conference on Molecular Physiology, Therapeutics and Experimental Medicine (MP-TEM2019) organized by the Dept. of Animal Health and Management, Alagappa University, Karaikudi, held on 24-25<sup>th</sup>, July 2019.
  28. Chaired a session in the International Conference on Innovative and Emerging trends in Botany-2019 (ICIETB-2019) organized by the Dept. of Botany, Alagappa University, Karaikudi, held on 6<sup>th</sup>-7<sup>th</sup> November 2019.
  29. Attended the International Conference on Prospectus of Biosciences in Transdisciplinary Research-2020” Bishop Herber College, Trichy 21<sup>st</sup> - 22<sup>nd</sup> Jan, 2020 and presented paper: Madhuri K, Divya D, Kumar R, Kannan K, Kannapiran E, Antivibrio, anticancer and activities of probiotic *Saccharopolyspora sp.* IMA1 metabolites”
  30. Attended the International Conference on “Recent biotechnological innovation in Aquaculture” (RIBA-2020) organized by Bharathiar University, Coimbatore held on February 27-28, 2020 and presented the following papers:
    - a) Divya D, Madhuri K, Sivaranjani S, Kumar R, Kannan K, Kannapiran E, *Bacillus paramycooides* mediated biosynthesis of zinc oxide nanoparticles and its antibiofilm activity against marine biofilm forming bacteria
    - b) Divya D, Madhuri K, Sivaranjani S, Kumar R, Kannan K, Kannapiran E, Antibiofilm potential of secondary metabolites from *Bacillus licheniformis* isolated from Palk bay
    - c) Kannan K, Kannapiran E, Kumar R, Divya D, Madhuri K Taxonomy status of deep-sea fishes from Gulf of Mannar, Southeast coast of India



d) Kumar R, Divya D, Madhuri K, Kannan K, Kannapiran E, Effect of biosynthesized iron oxide nanoparticles in *Artemia salina* nauplii

31. Attended the National virtual event for budding marine biology enthusiasts “Marine Biology Research Symposium (MBRS- 2021)” Organized by the Centre for Climate change studies. Sathyabama Institute of Science and Technology, Chennai held on July-26<sup>th</sup> -30<sup>th</sup> 2021 and presented paper on Taxonomic and Distribution Status of *Sphyraena chrysotaenia* Klunzinger, 1884 (Perciformes: Sphyraenidae) from the Southeast Coast of India TBC-118-OR.

#### **WORKSHOP\SYMPOSIA\CONFERENCE ATTENDED**

1. Attended the Workshop on Development of Database and Website on Coastal and Marine diversity sponsored by the Ministry of Environment and Forest, Government of India, organized by the Centre of Advanced Study in Marine Biology, Annamalai University, Parangipetai on 29<sup>th</sup> March 2003.
2. Attended the One week National level Workshop on E-Content Development (sponsored by RUSA-Phase-2.0 Scheme) organized by the Department of Education (DDE), Alagappa University, Karaikudi from 18.11.2019-22.11.2019
3. Attended the Seminar on “Untapped potential of seaweed resources of Tamilnadu and scope for gainful employment of self-help women groups of the coastal poor in seaweed farming, organized by Aquaculture Foundation of India, in collaboration with Central Marine Fisheries Research Institute, Mandapam and Central Salt Marine Chemical Research Institute, Mandapam between 21-23<sup>th</sup> February 2005.
4. Attended the National workshop on the Restructuring Higher Education Curriculum in the context of Globalization organized by Curriculum Development Centre, Alagappa University from 24 to 26<sup>th</sup> March 2006 At Karaikudi.
5. Participated in National Seminar on Application of Genomics and Bioinformatics in Animal Health and Management held at Alagappa University, on 25 and 26<sup>th</sup> March 2009.
6. Participated in “Workshop for lesson writers of Distance Education Programme” organized by the Directorate of Distance Education of Alagappa University on 11<sup>th</sup> and 12<sup>th</sup> June 2009.
7. Participated the Seminar on Promoting Environmental values among the teacher trainees at Secondary Level, Organized by Directorate of Distance Education, Alagappa University, Karaikudi on 22<sup>nd</sup> and 23<sup>rd</sup> October 2009.

8. Attended the International Conference on Emerging Trends in Teaching Language and Literature, organized by Department of English and Foreign Languages, Alagappa University, Karaikudi from 4<sup>th</sup> to 5<sup>th</sup> December 2009.
9. Attended the National Symposium on Global Climate Change and Marine Biodiversity, organized by Faculty of Marine Science, Annamalai University, Parangipettai on 26.02.2010.
10. Attended the National workshop on Constructivism based learning approach Organized by Directorate of Distance Education, Alagappa University, Karaikudi on 19<sup>th</sup> March 2010.
11. Attended the National Conference on Aquatic Animal Health and Management and chaired a session, held at Faculty of Marine Sciences, CAS in Marine Biology, Annamalai University, Parangipettai, from 14 to 15.09.2012, 32-36.
12. Attended and Chaired the session on the National conference entitled “Impact of electronic Resources on Teaching, Learning and Research: Issues and opportunities” jointly organized by Directorate of Distance Education and Central Library, during 24<sup>th</sup> – 25<sup>th</sup> April, 2015.
13. Attended the International Workshop on Molecular Physiology, Therapeutics and Experimental Medicine, organized by the Department of Animal Health and Management, Alagappa University during 6&7 September, 2016.
14. Attended the World Animal Day Celebration held at Dept. of Animal Health and Management, Alagappa University, Karaikudi on 4<sup>th</sup> October 2017.
15. Attended the National Seminar on Educational practices in Chola Kingdom (850-1279 AD) EPICK-2016, organized by Department of History and Directorate of Distance Education during 6<sup>th</sup>-7<sup>th</sup> October 2016.
16. Attended the International Conference on “Recent Trends in Microbiology” (RTM – 2016) during 20<sup>th</sup> and 21<sup>st</sup> December, 2016 organized by our Department of Microbiology, Alagappa University.
17. Attended the National seminar on Water Quality Issues in Aquaculture Systems held during 18<sup>th</sup>-19<sup>th</sup> 1996 organized by Fisheries College and Research Institute, Tamil Nadu Veterinary and Animal Sciences University Tuticorin
18. Attended the “World Animal Day & World Habitat Day” organized by the Department of Animal Health and Management, Alagappa University, Karaikudi on 3<sup>rd</sup> October 2018.
19. Attended the 1st two days’ workshop on “Indigenous Cow Management & their Value Added Products” (ICMVAP-2K18) during 18<sup>th</sup> & 19<sup>th</sup> December 2018. Organized by Department of Animal Health and Management, Alagappa University, Karaikudi.

20. Attended the 3rd International Conference on “Recent Trends in Microbiology” (RTM – 2019) during 11<sup>th</sup> and 12<sup>th</sup> January, 2018 organized by our Department of Microbiology, Alagappa University.
21. Attended the “World Animal Day & World Habitat Day” organized by the Department of Animal Health and Management, Alagappa University, Karaikudi on 3<sup>rd</sup> October 2018
22. Attended the National seminar on Humanism In Indian Literature (HIIL-2018) held during 18<sup>th</sup>-19<sup>th</sup> September 2018 organized by Department of Education (DDE), Alagappa University, Karaikudi
23. Attended the One day Workshop on Design and Development of MOOCs for the faculty Members of Alagappa University and Affiliated Colleges held on November 2018.
24. Attended the International Conference on Bioplastics (BIOP 2019) on 02.04.2019, organized by Department of Microbiology, Alagappa University.
25. Attended the “World Animal Day & World Habitat Day” organized by the Department of Animal Health and Management, Alagappa University, Karaikudi on 3<sup>rd</sup> October 2019.
26. Attended for completing the Digital Leadership Course Part 1: Online learning workshop for faculty on April 15-17, 2020.
27. Attended the International Webinar on Novel Approaches: Human Therapy and Animal Nutrition organized by DDE, Department of Microbiology, Alagappa University, Karaikudi on 28.05.2020 to 30.05.2020.
28. Attended the National Webinar on Recent Approaches and Human genes against COVID 19” organized by DDE, Department of Zoology, Alagappa University, Karaikudi on 11.06.2020
29. Attended the National Webinar on Current critical Approaches to Literature organized by DDE Language ling (Tamil and English) Alagappa University, Karaikudi on June 29, 2020.
30. Attended the One day workshop on “Development of Low coast solar cells for rural and tribal applications” organized by Department of Energy Science & University Business Collaboration Centre, Alagappa University, Karaikudi on 15<sup>th</sup> March

### **SEMINARS ORGANIZED**

1. Organizing member, National Seminar on Ecological Balance and Sethusamudram canal, organized by the Department of Oceanography and Coastal Area Studies, Alagappa University between 1 and 3<sup>rd</sup> October 2004.

2. Organizing member: National workshop on Expansion and Enrichment of Distance Learning, organized by Directorate of Distance Education, Alagappa University from 27<sup>th</sup> and 28<sup>th</sup> March 2012.
3. Organizing Member, Inter-Collegiate Talent Exhibit show 2014, held on 20<sup>th</sup> -22<sup>th</sup> February, 2014, Organized by Alagappa University Cultural Club.
4. Organizing Member, Training Programme on “Recent Trends in Software Industries. Role of Income Tax and Sale Tax in Business, organized by University Business Collaboration Centre, Alagappa University on 3<sup>rd</sup> March, 2016.
5. Organizing Member, Inter-Collegiate Talent Exhibit show 2017, held on 12<sup>th</sup> -14<sup>th</sup> October, 2017, Organized by Alagappa University Cultural Club.
6. Co-organizing Secretary in the 2<sup>nd</sup> International Conference on Molecular Physiology, Therapeutics and Experimental Medicine (MP-TEM2019) organized by the Dept. of Animal Health and Management, Alagappa University, Karaikudi, held on 24-25<sup>th</sup>, July 2019.
7. Organizing secretary in the National Webinar on “Next Generation Technology for Sustainable Fisheries” on 21-11-2020, organized by Dept. of Fisheries Science, Alagappa University.
8. Organizing secretary in the 2<sup>nd</sup> National Seminar on “Next Generation Technology for Sustainable Fisheries” on 29<sup>th</sup> & 30<sup>th</sup> March, 2022, organized by Dept. of Fisheries Science, Alagappa University.

## **DISSERTATION AND PROJECT REPORT**

**Ph. D.** : Heterotrophic, phosphatase producing, phosphate solubilizing bacteria from the Coral Reef Environment of the Gulf of Mannar Marine Biosphere Reserve: An Inventory’

**M. Phil.** : Breeding Biology of *Babylonia spirata* Mollusca: Neogastropoda: Buccinidae)

**M. Sc.** : Immobilization of *Nitzschia obtuse* (W. Smith) for stock culture management

**International summer Course Project:** Phosphate uptake by *Porites compressa*

## **MEMBER IN PROFESSIONAL SOCIETIES**

1. Member, Aquatic Biodiversity Conservation Society, Lucknow, India. 2009
2. Member, Network on Barcoding of Marine life, Initiated by Indian Ocean Census of Marine Life and Centre of Advanced Study in Marine Biology, Annamali University, Parangipettai 2007.
3. Member, Indian Science Congresses, Calcutta 2009.

4. Member, Board of Studies in Marine Microbial Technology, Post Graduate Programme, Alagappa University, Karaikudi. 2008.
5. Member Board Studies in Zoology (M.Sc.,) DDE, Alagapa University – 2009.
6. Chairman, Board Studies for Zoology Programme (B.Sc., & M.Sc., Distance Mode), Alagappa University, December 2015 onwards.
9. Special Invitee, Board of Studies (M.Sc., Zoology) in the Dept. of Animal Health and Management, 2015.
10. Chairman, Board of Studies for Home Science, Nutrition and Dietetics (ODL Mode), Alagappa University, Karaikudi, 2017 onwards
11. Member, Board of Studies for M.Sc., Microbiology (ODL mode), Alagappa University, Karaikudi, form M.Sc., Home Science, nutrition and Dietices, 2017 onwards.
12. Member, Board of Studies in Center for Skill Development, Annamalai University, Chidambaram, 2019 onwards.
13. Chairperson of the Board Studies in Zoology (M.Sc.,) DDE, Alagapa University Effect from 20.11.2019.
14. Member, Board of Studies in in Zoology (U.G. & PG), Bharathidasan University, Tiruchirappalli, 01.10.2021 onwards.

#### **REVIEWER FOR JOURNALS**

1. Journal British Microbiology Research
2. Journal of World Applied Research
3. Journal of Basic Microbiology
4. African Journal of Microbiology Research
5. Agricultural Science and Research Journal
6. International Journal of Environmental Science and Technology.
7. Journal Environmental Biology

#### **INVITED LECTURES:**

1. Delivered a invited lecture on Classification of Coral reefs and their characteristics, Dept. of Geology, Alagappa Govt. Arts College, Karaikudi -3 on 03.09.2012.
2. Delivered an invited talk on Coral Diseases: An Overview, National Conference on Aquatic Animal Health and Management held at Faculty of Marine Sciences, CAS in Marine Biology, Annamalai University, Parangipettai, from 14 to 15.09.2012.

3. Delivered an invited talk on Oceanographic Equipments pertaining to Geological operations, Dept. of Geology, Alagappa Govt. Arts College, Karaikudi -2 on 26.10.2012.
4. Delivered a talk on Coral reef and their Bioresources Management, Winter School on Bioresources Management, Dept. of Plant Sciences, Madurai Kamaraj University, Madurai on 16.10.2012.
5. Delivered a invited talk on Marine pollution, Dept. of Geology, Alagappa Govt. Arts College, Karaikudi -3 on 17.11.2012.
6. Delivered a invited lecture on Coral Reefs in the Department of Microbiology, Umalyal Ramanathan College for Women, Karaikudi on 23.07.2013.
7. Delivered a invited lecture on Coral Reefs and their bioresources in the Department of Botany, Alagappa Govt. Arts College, Karaikudi, on 25.03.2014.
8. Delivered a special lecture on Environmental Awareness to NSS volunteers, Special camp organized by NSS, Alagappa University on 13.03.2016 at Kandamor.
9. Delivered a special Lecture on Environmental Awareness and Activities of Center on Swachh Bharat and Swasth Bharat to the students of Dept. of Social Studies, Alagappa University, Karaikudi on 22.07.2016.
10. Delivered a special Lecture on Coral Reefs and Its Bio-Resources, Dept. of Biochemistry, JJ College of Arts and Sciences, on 23.08.2016.
11. Delivered a special Lecture on Coral Reef and its bioresources, at Sri Kaleeswari College, Sivakasi on 11.08.2017.

#### **OTHER RECOGNITION**

1. Chair Person for the Valuation Board of Distance Education Examination (M.Sc., Zoology programme) from December 2013 onwards.
2. Member: Pre Ph.D entrance examination interview committee held on 26.02.2017.
3. Inspection team member, New Learning centre at Coimbatore on 07.08.2017.
4. Selection Committee Member for the Appointment of Assistant Professor, VOC College, Tuticorin on 18.08.2017
5. Selection Committee Member for the Appointment of Assistant Professor, PMT College, Melaneelithanallur, on 22.08.2017.
6. Interview Panel member for Ph.D entrance Examination held on 27.08.2017.
7. Inspection Team member, New learning centre at Sankarankovil, on 28.08.2017

8. Co-ordinator for the Online Submission of ODL Application to DEB for the Recognizaion of ODL programmes to be offered by the Directorate, 2017.
9. Chairman of Board of Studies in Home Science-Nutrition and Dietetics, Academic year 2017.
10. Co-ordinator for the preparation of DDE Prospectus for the Academic 2018, Alagappa University.
11. The special Invitee 68 th Meeting of the Standing Committee on Academic Affairs on 29.11.2018, Alagappa University.
12. The Member of College Development Council committee, Alagappa University Evening Colleges 2018.
13. Chairman of Question Paper Setters Board in M.Sc Zoology for the Academic year 2019, Alagappa University.
14. The Member of Calendar Committee for the academic year 2019-2020 Alagappa University.
15. Chairperson of the Valuation Board of DDE in M.Sc Zoology for the Academic year 2019, Alagappa University.
16. Co-ordinator of DDE –Prospectus Scrutinizing Committee for the Academic year 2018-19, Alagappa University.
17. The member Scrutinizing Committee of Assistant Professor post, Manonmaniam Sundaranar University, Tirunelveli 2018.
18. Appointed as a Central Valuation External Examiner for B.Voc (Fashion Technology & Software Development) April 2018.

## RESEARCH GUIDANCE

S. No.	PROGRAMME	COMPLETED/ON GOING
1.	M. Sc.,	43/0
2	M. Phil.,	13/1
3.	Ph.D.,	6/6
4	Post Doctoral Fellow	2/0

## EXTENSION ACTIVITIES

<b>Additional responsibility in the Department/College/Centre</b>			
<b>S.No.</b>	<b>Capacity</b>	<b>Nature of work</b>	<b>From which date</b>
1	Coordinator, M.Sc., Zoology Programme	Personal contact Programme for M.Sc., Zoology Programme (Second Year)	24 <sup>th</sup> October to November 15 <sup>th</sup> 2014
2	Coordinator, M.Sc., Zoology Programme	Personal contact Programme for M.Sc., Zoology Programme (First Year)	March 5 <sup>th</sup> to 27 <sup>th</sup> , 2015
3	Co-ordinator, Centre of Swachh Bharath and Swasth Bharath	World AIDS prevention Day was celebrated by Centre on Swachh Bharath and Swasth Bharath in collaboration with National Service Scheme	01.12.2014
4	Co-ordinator, Centre of Swachh Bharath and Swasth Bharath	International disabled day was celebrated by Centre on Swachh Bharath and Swasth Bharath in association with Alagappa College of Physical Education and B.ED Special Education	03 <sup>rd</sup> December, 2014
5	Co-ordinator, Centre of Swachh Bharath and Swasth Bharath	Blood donation camp was organized jointly by Centre on Swachh Bharath and Swasth Bharath, National Service Scheme and HDFC bank	5 <sup>th</sup> December 2014
6	Co-ordinator, Centre of Swachh Bharath and Swasth Bharath	International Human Rights day was celebrated by Centre on Swachh Bharath and Swasth Bharath in association with Alagappa College of Physical Education	10 <sup>th</sup> December 2014
7	Co-ordinator, Centre of Swachh Bharath and Swasth Bharath	Tree planting campaign was organized by Centre on Swachh Bharath and Swasth Bharath in association with National Service Scheme	17 <sup>th</sup> December, 2014
8	Co-ordinator, Centre of Swachh Bharath and Swasth Bharath	National Energy Conservation day was celebrated jointly by Dept of Energy Science and Centre on Swachh Bharath and Swasth Bharath and National Service Scheme	12 <sup>th</sup> December 2014
9	Co-ordinator, Centre of Swachh Bharath and Swasth Bharath	Cleaning campaign was organized by Centre on Swachh Bharath and Swasth Bharath in collaboration with National Service Scheme	19 <sup>th</sup> December 2014
10	Co-ordinator, Centre of Swachh Bharath and Swasth Bharath	World Consumer Rights Day was organized jointly by Centre on Swachh Bharath Swasth Bharath, Consumer Club and Department of Corporate Secretaryship	16 <sup>th</sup> March 2015
11	Co-ordinator, Centre of Swachh Bharath and Swasth Bharath	Awareness Campaign on the Ill effects of Plastic through Street Play was organized jointly by Centre on Swachh Bharath and Swasth Bharath and National Service Scheme and Voice Trust, Madurai	24 <sup>th</sup> March 2015



12	Co-ordinator, Centre of Swachh Bharath and Swasth Bharath	Village Adoption Programme was organized in five village (Mathur, Ilupakudi, Kotharai, Nemam and Surakudi). around Karaikudi to launch Swachh Bharat Mission	25-27 <sup>th</sup> September, 2015
13	Co-ordinator, Centre of Swachh Bharath and Swasth Bharath	Swachhta pledge taking ceremony was conducted by the Centre on Swachh Bharath and Swasth Bharat at Alagappa University	29.02.2016
14	Co-ordinator, Centre of Swachh Bharath and Swasth Bharath	Special Cleaning Campaign was organized by Centre on Swachh Bharat and Swasth Bharat at Science Campus in Collaboration with NSS and Environmental Awareness Club	12.08.2016

### **RESEARCH PROJECTS: COMPLETED**

1. Co- Principal Investigator: “Evaluation of bacterial diversity associated with the coral *Acropora digitifera* by 16S rRNA gene sequences and screening for antiviral activity against the aquaculture pathogen blotched snake head virus, sponsored by Department of Biotechnology, Ministry of Science and Technology, Government of India. The total outlay of the project: Rs. 34 Lakhs.
2. Principal Investigator: “Microbial Pathogens of Corals and the Events of Biotic and Abiotic Transformation in the Process of Pathogenesis sponsored by Ministry of Environment and Forest, Govt. of India, New Delhi. The total outlay of the project: Rs. 46.93 Lakhs
3. Principal Investigator: Theme based research project under RUSA Phase 2.0. Theme: Translational health research for human, animal and plant systems sponsored by RUSA 2.0, Alagappa University, Karaikudi.