

BIODATA/RESUME

1. Name : **Dr. P. PERUMAL**

2. Sex : Male

3. Date & Place of Birth : 01-04-1959, Eachampatty (Village),
Dharmapuri (Dt), (India).

4. Marital Status : Married & Blessed with 2 children

5. Present position : Professor & Head
Department of Biotechnology
Periyar University,
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Educational Background:

- B.Sc - Zoology, University of Madras (1980)
- M.Sc - Zoology (Human Genetics), Annamalai University (1982)
- Ph.D (Marine Biology), Annamalai University (1989)
- Passed the UGC - National Eligibility Test (NET) for Lectureship & Research Fellowship (1985)

Research Interests:

Biodiversity, Live Feed Organisms, Eco-Toxicology, Molecular Taxonomy (Zooplankton), Fish disease management, Poultry diseases, Antimicrobial, anticancer & antimalarial compounds from marine bioresources, MicroRNA gene regulation in cancers, Environmental Microbiology.

Research/Professional/Teaching Experience

1. Ph.D joined on 19.11.1982 at the Centre of Advanced Study (CAS) in Marine Biology, Annamalai University, under Professor K. Krishnamurthy and the Ph.D. thesis entitled “**Heterogeneity of coastal ecosystems with special reference to mangroves**”, submitted on 28th May, 1988 and Ph.D. Degree awarded in June, 1989.
2. Totally **31-years research (& 24-years P.G-Teaching) experience** in Marine Biology/Biotechnology and taught post-graduate students during **Faculty-Research Associate**-tenure (5yrs); as a **Lecturer** (8 1/2 yrs); as a **Reader** (3 yrs) as a **Professor** (1-year & 5 months at CAS in Marine Biology, Annamalai University) & been Professor & Head, Dept. of Biotechnology, Periyar University, since, 1st December, 2008.
3. Gained experience in Biodiversity, Biology & Biochemistry of Live Feed Organisms, Molecular Biology, Plankton-EcoToxicology, Bio-statistics, Cell & Tissue Culture techniques, Algal Blooms, Seaweed studies, Crustaceans & Poultry diseases, Gene splicing (Cancer) & Analysis of Gene expression data.
4. Teaching-fields: Biological Oceanography, Biodiversity, Invertebrates, Vertebrates, Cell Biology, Developmental Biology, Bioprocess, Genetic Engineering, Marine Microbiology & Pathology, Physiology, Genetics and Molecular Biology, etc.
5. Worked as a **Junior Research Fellow in the Govt. of India, MAB-DOEn Project**, “Documentary Preparation on the Marine Biosphere Reserve in the Gulf of Mannar” (Dec. 1983 - Nov. 1984) at CAS in Marine Biology, Annamalai University.
6. Worked as a **Lab. Technician (May 1985 to July 1985) & as a Junior Research Fellow (Aug. & Sept. 1985) in the Govt. of India, DOEn project** entitled, “Experimental Studies in the Fertility of the Waters”, at CAS in Marine Biology, Annamalai University.
7. Worked as **UGC (NET)-Junior Research Fellow** (Oct. 1985-Sept.1987) at CAS in Marine Biology (Ph.D work), Annamalai University.
8. Worked as **UGC (NET)-Senior Research Fellow** (Oct.1987-Sept.1989) at CAS in Marine Biology (Ph.D work), Annamalai University.
9. Worked as **Faculty-Research Associate** from Oct.1989 to Oct.1994 and later from 22-05-1995 to 11-07-1995 at CAS in Marine Biology, Annamalai University, in the pay scale of Rs. 2700-100-3200 & was engaged in research and PG-teaching.
10. Worked as a **Lecturer** from 12.07.1995 to 28.02.2004 at CAS in Marine Biology, Annamalai University.
11. Worked as a **Reader** from 01-03-2004 to 30.06.2007 at CAS in Marine Biology, Annamalai University.
12. Worked as a **Professor** from 01-07-2007 to 30.11.2008 at CAS in Marine Biology, Annamalai University and was engaged in teaching, research & extension & guided research students/projects.

13. Served as Administrative-Head (i/c), Dept. of Botany, Periyar University, Periyar Palkalai Nagar, Salem-11 (July 2011-July 2013).
14. Presently working as **Professor & Head (wef-01.12.2008), Dept. of Biotechnology** Periyar University, Salem-636 011 and been engaged in research, teaching & administration.

Research Publications:-

I. Books/Monographs/Manuals/Lessons

1. **Perumal, P.**, P.Sampathkumar & P. Santhanam (1998). "Zooplankton of Parangipettai coastal waters", (Vol.1). Monograph series, UGC-Special Assistance Programme, CAS in Marine Biology, Annamalai University, Parangipettai (India). pp.31.
2. **Perumal, P.** & P.Sampathkumar (2002). "Manual on identification of zooplankton", All India Coordinated Project on Survey & Inventorization of Coastal & Marine Biodiversity, Mo En & F (Govt. of India). pp.53.
3. Sampathkumar, P. & **P. Perumal** (2002). "Manual on identification of phytoplankton", Ibid. pp 56.
4. **Perumal, P.** (2003). "Sea as a biological environment-microbes, phytoplankton, zooplankton & benthos", unit-3, paper-I, PG-Dip. in Marine Microbial Technology (DDE-Lesson), Annamalai University Press, Annamalai Nagar, pp. 60-79.
5. **Perumal, P.** (2003). "Coastal Biodiversity-Earth Summit, Agenda-21&UN-CSD", unit-3, paper-3, PG-Dipl. *Mar. Envir. Pollution & Management* (DDE-Lesson), Ibid, pp. 43-59.
6. Shivakumar. M.S. & **P.Perumal**, (2009). Animal Associations In: Fundamentals of Environmental Sciences. I-B.Sc-Environmental Science-Distance Education Lesson (Chapter), Periyar University Press, (Salem), pp.55 -61.
7. **Perumal,P** & M.S.Shivakumar (2009).Quantitative Analyses of Plankton In: Environmental Education, I-B.Sc-Environmental Science-Distance Education, Practical- Lesson (Chapter), Periyar University Press, (Salem), pp.87.
8. Santhanam, P. & **P. Perumal** (Book -Editors) 2012. Marine Biodiversity: Present status and prospects, Proc. National Seminar, Sept. 2010. Narendra Publishing House, Delhi, pp.270.
9. Santhanam, P., A.R. Thirunavukkarasu & **P. Perumal** (Book Editors) 2014. Advances in Marine and Brackishwater Aquaculture by Springer - reputed international Publisher. (In Press).

II. Articles in Journals (including gene sequences submitted to NCBI)

10. **Perumal, P.** & P. Subramanian (1985). Effects of salinity and copper on larval development in pistol prawn, *Alpheus malabaricus malabaricus* Fabricius. *Indian J. Mar. Sci.*, 14: 35-37.
11. Krishnamurthy, K., **P. Perumal** & R. Palaniappan (1986). Photosynthetic bacteria from the coastal board ecosystems. *Curr. Sci.*, 55: 617-620.
12. **Perumal, P.** & P. Subramanian (1989). Photosynthetic pigments and humic acids in coastal board ecosystems. *Ciencias Marinas*, 15: 67-77. (English & Spanish).
13. **Perumal, P.** (1991). Diel variations of humic acids, photosynthetic pigments and physico-chemical features of the Vellar estuary. *J. Ecotoxicol. Environ. Monit.*, 1: 192-197.
14. **Perumal, P.** (1992). Humic substances-their origin, nature, importance and distribution in aquatic environments. *J. Ecotoxical. Environ. Monit.*, 2: 105-112.
15. **Perumal, P.** (1993). The influence of meteorological phenomena on the ecosystems of a tropical region, southeast coast of India-a case study. *Ciencias Marinas*, 19: 343-351 (English & Spanish).
16. Chandrasekaran, V.S. & **P. Perumal** (1993). The mud crab, *Scylla serrata*: a species for culture and export. *Seafood Export Journal XXV*: 15-19.

17. **Perumal, P.** & N. Veerappan (1997). The Post-Earth Summit (UNCED) Scenario. *Seshaiyana*, 5: 32-33.
18. **Perumal, P.**, P. Sampathkumar & P. K. Karuppasamy (1999). Studies on phytoplankton in the Vellar estuary with reference to bloom forming species. *Indian J. Mar. Sci.*, 28: 400-403.
19. **Perumal, P.** Prabhu, V.A., Nedumaran, T. & Santhanam, P. (2000). Studies on behaviour and survival rate of *Oithona rigida* Giesbrecht (Copepoda: Cyclopoida) fed with *Coscinodiscus centralis* Ehrenberg and *Skeletonema costatum* Cleve. *Seaweed Res. Utiln.*, 22: 135-138.
20. Santhanam, P. & **P. Perumal** (2000). Studies on the mass culture of the phytoplankton, *Skeletonema costatum* (Grev) Cleve. *Seaweed Res. Utiln.*, 22:133-134.
21. Karuppasamy, P.K. & **P. Perumal** (2000). Biodiversity of zooplankton at Pichavaram mangroves, South India. *Adv. Bios.*, 19: 23-32.
22. Santhanam, P. & **P. Perumal** (2001). A note on the amino acids profile of cultured copepod, *Oithona rigida* Giesbrecht. *Adv. Bios.*, 20: 83-88.
23. Nedumaran, T., V. Ashokprabu & **P. Perumal** (2001). Ecology of phytoplankton of Vellar estuary, Southeast coast of India. *Seaweed Res. Utiln.*, 23: 157-162.
24. Gandhiyappan, K., N. Veerappan & **P. Perumal** (2001). Phytoplankton diversity and primary productivity of Paravanar estuary, Cuddalore coast of India. *Seaweed Res. Utiln.*, 23: 149-159.
25. Gandhiyappan, K. & **P. Perumal** (2001). Growth promoting effect of seaweed liquid fertilizer (*Enteromorpha intestinalis*) on the Sesame crop plant (*Sesamum indicum*). *Seaweed Res. Utiln.*, 23: 23-25.
26. Santhanam, P. & **P. Perumal** (2003). Diversity of zooplankton in Parangipettai coastal waters, Southeast coast of India. *J. Mar. Biol. Ass. India* 45(2): 144-151.
27. Rajkumar, M., M. Rajasegar, P. Santhanam & **P. Perumal** (2004). Length-weight relationship in *Siganus javus* L. (Pisces: Siganidae) from Parangipettai coast, Southeast coast of India. *J. Aqua. Biol.* 19: 125-126.
28. Ashok Prabu, **P. Perumal** & M. Rajkumar (2004). Mass culture of calanoid copepod, *Acartia spinicauda* Giesbrecht. *J. Aqua. Biol.* 19: 193-196.
29. Rajkumar, M. & **P. Perumal** (2004). On an abnormal sting-ray caught off Parangipettai, Southeast coast of India. *J. Mar. Biol. Ass. India* 46(1): 124-125.
30. Rajkumar, M., P. Santhanam & **P. Perumal** (2004). Laboratory culture of calanoid copepod, *Acartia clausi* Giesbrecht. *Applied Fisheries and Aquaculture*, IV (1): 5-8.
31. Biji. K. Thomas, K.P. Manikandan, **P. Perumal** & M. Rajkumar (2004). Biofilm-Can it form an alternative food source in culturing cyclopoid copepod, *Oithona rigida* Giesbrecht - A case study. *J. Aqua. Biol.*, 19(2): 197-203.
32. Rajkumar, M., P. Santhanam & **P. Perumal** (2004). Report on new host record of *Cymothoa indica* Schioede and Meinert, 1884 (Crustacea: Isopoda) from Parangipettai coastal waters, Southeast coast of India. *J. Aqua. Biol.*, 19(2): 113-114.
33. Ashok Prabu, V. **P. Perumal** & M. Rajkumar (2004). Studies on microzooplankton from Parangipettai coastal waters, Southeast coast of India. *J. Mar. Biol. Ass. India* 47(1): 14-19.
34. Ashok Prabu, V., **P. Perumal** & M. Rajkumar (2004). Biochemical composition of some marine copepods. *Res. J. Chem. Environ.*, 9(4): 36-41.
35. Rajkumar, M. & **P. Perumal** (2005). Effect of isopod parasite, *Nerocila phaeopleura* on *Stolephorus commersonii* fish from Parangipettai coastal waters (Southeast Coast of India). *Applied Fisheries & Aquaculture*, 4(2): 17-23.
36. Rajkumar, M., K. P. Kumaraguru Vasagam, **P. Perumal** & J. P. Trilles (2005). First record of *Cymothoa indica*, a cymothoide) infecting the cultured catfish, *Mystus gulio* in India. *Dis. Aqua. Org.* 65(3): 269-272.
37. Rajkumar, M., **P. Perumal** & J.P. Trilles (2005). *Cymothoa indica* (Crustacea, Isopoda, Cymothoidae) parasitizing the cultured larvae of the Asian seabass *Lates calcarifer*, under laboratory conditions. *Dis. Aqua. Org.* 66(1): 87-90.

38. Santhanam, P., **P. Perumal** & M. Rajkumar (2005). Effect of *Artemia* on growth and survival of *P. monodon* larvae. *Applied Fisheries & Aquaculture*, 4(2): 42-46.
39. Ashok Prabu, V., **P. Perumal** & M. Rajkumar (2005). Experimental studies on the use of microzooplankton as feed in copepods culture. *Aquaculture*, 6(2): 159-164.
40. Santhanam, P. & **P. Perumal**, (2005). Marine Copepods-The Living Capsules. *Seshaiyana*, 13 (1): 6-8.
41. Nedumaran, T. & **P. Perumal** (2005). Effect of liquid seaweed fertilizer from *Padina boergeresii* on the growth and biochemical changes in *Sesamum indicum* L. Var.Co.1. *Indian Hydrobiology*, 8(2): 195-199.
42. Thillai Rajasekar, K., **P. Perumal** & P. Santhanam (2005). Phytoplankton diversity in Coleroon estuary, Southeast coast of India. *J. Mar. Biol. Ass. India*, 47(2): 127-132.
43. Ashok Prabu, V., **P. Perumal** & M. Rajkumar (2006). Food and feeding behaviour of microzooplankton and copepods. *J. Annamalai Univ. Sci.*, XIII: 53-62.
44. Rajkumar, M., **P. Perumal**, & J-P. Trilles (2006). On the occurrence of a double parasitisms (Copepod and isopod) on the anchovy fish in India. *J. Environ. Biol.* 27(3): 613-614).
45. Santhanam, P., **P. Perumal** & C.Sureshkumar (2006). Distribution of phytoplankton in Vedanthangal birds sanctuary lake, Kancheepuram District, Tamil Nadu. *Seaweed Res. & Utiln.* 28(1): 63-67.
46. Rajkumar, M., **P. Perumal**, P. Santhanam & N.Veerappan (2006). Effect of isopod parasite, *Cymothoa indica* on pearl spot, *Etroplus suratensis* from Parangipettai coastal waters (South-east coast of India). *J. Curr. Sci.*, 9(1): 63-70.
47. Venkatesan, R., **P. Perumal** & T. Balasubramanian (2007). Antibacterial activity of the marine diatom *Rhizosolenia alata* against human pathogens. *Seaweed Res. & Utiln.*, 29(1): 1-3.
48. Rajkumar, M., R. Thavasi, **P. Perumal** & J. P. Trilles (2007). Parasite induced Vibriosis in *Stolephorus commersonii*. *Research Journal of Microbiology*.2 (12) 972-977.
49. Gandhiyappan, K. & **P. Perumal** (2007). Nutrients, auxins & cytokinin (PGRs) in green seaweed, *Enteromorpha intestinalis* L. *Geobios*, 34: 249-252.
50. Nedumaran, T. & **P. Perumal** (2007). Seaweed-A Potential Fertilizer. *Agrobios*, 6(7): 29-30.
51. Ashok Prabu, V., **P. Perumal** & M. Rajkumar (2008). Seasonal variations in physico-chemical characteristics of Pichavaram mangroves, Southeast coast of India. *J. Environ. Biol.*, 29: (6) 945-950.
52. Nedumaran, T., K. Thillai Rajasekar & **P. Perumal** (2008). Mangrove associated cyanobacteria at Pichavaram, Tamil Nadu. *Seaweed Res. & Utiln.* 30:77-85.
53. Nedumaran, T., K. Thillai Rajasekar & **P. Perumal** (2008). Alternative uses of Cyanobacteria. *Agrobios*, 6(12): 34-35.
54. Gandhiappan, K., T. Nedumaran, P. Santhanam & **P. Perumal**, (2008). Proximate composition, amino acids and fatty acids profiles of Brown Seaweed, *Sargassum tenerrimum* J. Agardh. *Seaweed Res. & Utiln.*, 30(1&2): 75-78.
55. Natarajan, E. & **P. Perumal**, (2008). Partial purification and characterization of antimicrobial protein in the gills of the Red banded grouper, *Epinephelus fasciatus* (Forsskal, 1775). *Indian J. Applied & Pure Bio.* 23(2): 337-342.
56. Natarajan, E. & **P. Perumal**, (2008). Histological and Histochemical study of the Gill Epithelium in the Demersal Teleost Fish *Cyanoglossus arel*. *Annamalai University Science Journal* 45 (2008): 119-124.
57. **Perumal, P.**, P. Santhanam & M. Rajkumar, (2008). Population density of two copepods in relation to hydrographic parameters in Parangipettai coastal waters, southeast coast of India. *J.Mar.Biol.Ass.India*.50 (2): 149-155.
58. Ashok Prabhu V., M. Rajkumar, & **P. Perumal** (2008). Seasonal variations in physico-chemical parameters in Uppanar estuary, Cuddalore (southeast east coast of India). *J.Mar.Biol.Ass.India*. 50 (2): 161-165.

59. Rajkumar, M., & **P. Perumal** (2008). Species composition and diversity of zooplankton in the Pichavaram mangroves (Southeast coast of India). *Advances in Aquatic Ecology*, Vol. 2, pp. 86-114.
60. Biji. K. Thomas, **P. Perumal** & M. Rajkumar (2008). Species composition and diversity of zooplankton in the inshore waters of Parangipettai, Southeast coast of India. *Advances in Aquatic Ecology*, Vol. 2, pp.116-144.
61. Natarajan, E. & **P. Perumal**, (2009). Isolation and identification of Antimicrobial peptide present in Gill secretions of striped goatfish, *Upeneus vittatus* (Forsskal, 1775). *Indian J. Applied & Pure Bio.*, 24(1):15-20.
62. **Perumal, P.**, M. Rajkumar & P. Santhanam, (2009). Biochemical composition of wild copepods, *Acartia spinicauda* and *Oithona similis* from Parangipettai coastal waters in relation to environmental parameters. *J. Environ. Biol.*30 (6): 995-1005.
63. Thillai Rajasekar, K., V. Duraipandiyan, **P. Perumal** & S.Ignacimuthu (2009). Antimicrobial activity of *Trichodesmium erythraeum* (Ehr) (microalga) from South East Coast of Tamil Nadu, India. *International Journal of Integrative Biology*, 5:167.
64. Nedumaran, T., & **P. Perumal**, (2009). Nutrient Relationships in the Seaweeds of Uppanar Estuary - South East Coast of India. *J. Botany Research International* 2(3): 186-194.
65. Nedumaran, T., & **P. Perumal**, (2009). Temporal and Spatial Variations in the Structure of Macroalgal Communities Associated with Mangroves of Pichavaram (South India). *J. Botany Research International* 2(3): 198-205.
66. Rajkumar, M., **P. Perumal**, V.Ashok Prabu, N.Vengadesh Perumal & K.Thillai Rajasekar (2009) Phytoplankton diversity in Pichavaram mangrove waters from South-east coast of India. *J.Environ.Biol.*30 (4):489-498.
67. Nedumaran.T & **P.Perumal** (2009) "Effect of Seaweed Liquid Fertilizer on the Germination and Growth Seedling of Mangrove-Rhizophora mucronata Boir. *J.Phytol.* 1(3); 142-146.
68. Vengadesh Perumal, N., M. Rajkumar, **P. Perumal** & K. Thillai Rajasekar (2009). Seasonal variations of Plankton diversity in the Kaduviyar estuary, Nagapattinam, South east coast of India. *J. Environ. Biol.* 30(6): 1035-1046.
69. Jagadeesan.L., **P.Perumal** & M.Thangaraj (2009). "Molecular identification of Calanoid copepod *Paracalanus parvus* (Claus 1863) using RFLP". *World Journal of Fish & Marine Science (IDOSI)* 1(3): 239-242.
70. Jagadeesan, L., Kannadasan, P. Anantharaman, **P, Perumal**, & M. Thangaraj (2010). Assessment of Ammonium uptake by *Gracilaria verrucosa* (Rhodophyta). *Current Research Journal Biological Sciences.* 2(2): 150-153.
71. Rajthilak, C., **P. Perumal**, A. Murugan, S. S.Jayaraj & P. Santhanam (2010). Study on the molecular variations among copepods (*Acrocalanus gracilis* and *Euterpina acutifrons*) isolated from Vellar estuary - Southeast coast of India. *Global J. Mol.Sci.* 5: 07-11.
72. Rajthilak, C., **P. Perumal**, P. Santhanam, A. Murugan, S.S.Jayaraj & P.Santhanam (2010). Molecular diagnosis of marine birnavirus in the zooplankton from Vellar Estuary (South East coast of India). *International Journal of Pharma and Biosciences.* 1(3) 1-6.
73. Thillai Rajasekar, K., M. Rajkumar, Jun Sun, V. Ashok Prabu & **P.Perumal** (2010). Bloom forming species of phytoplankton in two coastal waters, Southeast coast of India. *Journal of Ocean University of China*, 9:265-272.
74. Jagadeesan, L., K.Francis & **P.Perumal** (2010). **Submitted one nucleotide Sequence to the gene bank**, for the Crustacean-Zooplankton, *Pareucalanus attenuatus* (Old name:*Eucalanus attenuatus*) and obtained accession number- bank Kit 1330413 HM004515. (ITIS: Taxonomic Serial No: 667256, WoRMAphiaID: 237968).
75. Jagadeesan, L., K.Francis, P. Anantharaman, **P. Perumal** & T. Balasubramanian (2010). **Submitted one nucleotide Sequence to the gene bank**, *Corycaeus danae* 18S ribosomal RNA gene, Partial sequence. Gene bank: HM560588.

76. Jagadeesan, L., K.Francis, P. Anantharaman, **P. Perumal** & T. Balasubramanian (2010). **Submitted one nucleotide Sequence to the gene bank**, Molecular identification of calanoid copepods from parangipettai. Accession No: 1347211.
77. Jagadeesan, L., K.Francis, P. Anantharaman, **P. Perumal** & T. Balasubramanian (2010) **Submitted one nucleotide Sequence to the gene bank**, *Pareucalanus attenuates* voucher CAS pw 01 18S ribosomalRNA gene ,Partial sequence. Gene bank: HM004515.1.
78. Jagadeesan.L, K. Francis, P. Anantharaman, **P. Perumal**, M.Thangaraj & T. Balasubramanian (2010) **Submitted one nucleotide Sequence to the gene bank**, *Pareucalanus attenuates* internal transcribed spacer 2, complete sequence 2, complete sequence. Gene bank: HM153083.1.
79. Thillai Rajasekar, K., M. Rajkumar, Jun Sun, V. Ashok Prabu & **P. Perumal**, (2010). Seasonal variations of phytoplankton diversity in the Coleroon coastal waters, South east coast of India. *Acta Oceanologica Sinica*. 29: 97-108.
80. Vengadesh perumal, N., P. Damotharan, M. Rajkumar, **P. Perumal**, S. Vijayalakshmi & T. Balasubramanian, (2010). Laboratory culture and biochemical characterization of the calanoid copepod, *Acartia southwelli* Sewell, 1914 and *Acartia centrura* Giesbrecht, 1889. *Advances in Biological Research*. 4 (2): 97-107.
81. Nedumaran,T., **P.Perumal** & R.Rajaram (2011), Physico-chemical characteristics of uppanar estuary, Southeast Coast of India.*J. Ecotoxicol.Environ.Monit.*21(1):1-12.
82. Santhosh Kumar.C & **P.Perumal** (2011) Hydrobiological Investigations in Ayyampattinam Coast (Southeast Coast of India) with Special Reference to Zooplankton. *Asian Journal of Biological Sciences* 4(1): 25-34.
83. Santhanam.P & **P.Perumal** (2012). Effect of temperature, Salinity and algal food concentration on population density, growth & survival of marine copepod, *Oithona rigida* Giesbrecht. *Indian J.Geomarine Sciences*. 41 (4): 369-376
84. Santhanam.P & **P. Perumal** (2012). Feeding, Survival egg production and hatching rate of the marine Copepod, *oithona rigida* Giesbrecht (Copepod: Cyclopedia) under experimental condition. *J.Mar.Biol.Assn.India* 54 (1), 38-44.
85. Santhosh kumar.C & **P. Perumal** (2012). Studies on phytoplankton characteristics in Ayyampattinam coast, India. *J.Environ.Biol.* 33: 585-589.
86. **Perumal, P.**, Priyanka, V., Jagadeesan, L., Rajthilak, C. & R. Ramkumar (2012) **Submitted one nucleotide Sequence to the gene bank**, *Labidocera acuta* 18S ribosomal RNA gene, partial sequence. Gen Bank: JQ280463.1
87. Prakash, B. & **P. Perumal** (2012). **Submitted two nucleotide sequences to the gene bank**, *Pseudomonas aeruginosa* 16S ribosomal RNA partial Sequence. Gen Bank: JX010738 & JX010739.
88. Nedumaran.T & **P.Perumal** (2012). Biodiversity of cyanobacteria from Uppanar estuary, South-east coast of India. *Emir. J. Food Agric*. 24 (3): 248 – 254.
89. Suganthi .K & **P.Perumal** (2012). Biological activities of nematocytes extracts of jellyfish, *chrysaora quinquecirrha* (Desor 1848) from Vellar estuary, Southeast coast of India. *Int. J Pharm. Sci.* 4(4): 300 - 304.
90. Santhanam. **P** & **P. Perumal** (2012). Evaluation of the marine copepod *Oithana rigida* Giesbrecht as live feed for larviculture of Asian seabass *Lates calcarifer* Bloch with special reference to nutritional value. *Indian J.Fish.* 59 (2): 127 – 134.
91. Prakash.B, **P. Perumal** & D. Jegadeeshkumar (2012). Molecular Characterization of plasmid mediated ESBL resistant Salmonella isolated from poultry environment in Namakkal District (India). *Advanced Biotech* 12(2): 18-21.
92. Rajthilak.C, **Perumal.P**, Pazhanimuthu.A, Santhanam.P, Ramkumar. R, Anusuya.A, Krishnamoorthy. M & B.Prakash (2012). Submitted nucleotide sequence to the gene bank. A note on the occurrence of new Harpacticoida species, *Nitocra velar* sp. Nov. (Crustacea: Copepoda) from Vellar estuary (Southeast coast of India) 18S rRNA gene partial sequence. Gen Bank: JX438707.

93. **Perumal Pachiappan**, Rajthilak Chandrasekaran, Pazhanimuthu Annamalai, Santhanam Perumal, Natarajan Thillainathan & Manikandan Krishnamoorthy (2012). Submitted nucleotide sequence to the gene bank. A note on the occurrence of Calanoid species, *Pseudodiaptomus annandalei* (Crustacea: Copepoda) from Manalmelkudi, Southeast Coast of India 18S ribosomal RNA gene partial sequence. Gen Bank: JX984662.
94. **Perumal Pachiappan**, Rajthilak Chandrasekaran, Pazhanimuthu Annamalai, Santhanam Perumal, & Manikandan Krishnamurthy (2012). Submitted nucleotide sequence to the gene bank. A note on the occurrence of Calanoid species, *Pseudodiaptomus aurivilli* (Crustacea: Copepoda) from Manalmelkudi Coast, Southeast Coast of India 18S ribosomal RNA gene partial sequence. Gen Bank: JX984663.
95. Suganthi.K and **P. Perumal** (2012). Review on Pharmacologically Active Compounds from Marine Organisms. *Int. J. Pure and Applied Biotechnology* 1(1): 34-38.
96. Suganthi. K & **P. Perumal** (2013). Preparation and Biomedical Characterization of Jellyfish (*Chrysaora quinquecirrha*) collagen from Southeast coast of India. *Intl. J. of Pharmacy and Pharmaceutical Sciences*. 5 (3); 698-701.
97. Chidambaram Jayaseelan, Ramjendran Ramkumar, Abdul Abdul Rahuman & **Pachiappan Perumal** (2013). Green synthesis of gold nanoparticles using seed aqueous extract of *Abelmoschus esculentus* and its antifungal activity. *Industrial Crops and Products* 45: 423-429.
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102. Gayathri.V.R., **P. Perumal**, A. Pazhanimuthu & B. Prakash (2013). Epidemiology and Molecular variations in Methicillin Resistant *Staphylococcus aureus* isolated from different clinical samples of private hospitals of Salem district, India. *Global J. of Pharmacol*. 7 (1)81-86.
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116. Raja, M., M. Kavitha, M. Anandhi, R. Ramkumar & **P. Perumal** (2014). Ichthyological survey of the checklist of fish fauna in Stanley Reservoir, Tamil Nadu, Southern India- Diversity, distribution, Threats and conservation action. *Discovery Life* 6(16), 21-30.
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 122. Prasath P, **P. Perumal**, K. Thangavel & R. Manavalan (2014). Informative Gene Selection for Leukemia Cancer Using Weighted K-Means Clustering. *IOSR Journal of Pharmacy and Biological Sciences (IOSR-JPBS)*; 9(4): 12-16.

III. Published Contributions to Academic Conferences/ Edited Books

123. **Perumal, P.** (1985). Seasonal variations in humic acids in the Pichavaram mangroves, South India. In: **The Mangroves**-Proc. Natl. Symp. Biol. Utiln & Cons.-Mangroves (ed. Leela J. Bhosale), Shivaji University, Kolhapur (India), pp. 369-371.
124. **Perumal, P.** (1994). Mangroves of India-a case study: Course Report-Chapter, In: Integrated Coastal Environment and Protection Programme in Pilot areas of Southeast Asia (ed. V. S. Raju, Chennai). Publication of International Ocean Institute (Malta), pp. 132-140.
125. **Perumal, P.** (1996). Humic acids and photosynthetic pigments from the tropical coastal ecosystem (Book chapter). In: **"Current Trends in Limnology"** (ed.), Nalin K. Shastree, Narendra Publishing House, Delhi, pp. 1-13.
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130. Balasubramanian, K. & **P. Perumal** (2000). Zooplankton in mangrove ecosystem. In: Flora and fauna in mangrove ecosystem- A manual for identification, (ed.) K. Kathiresan (DO En) All India Coordinated Project on Coastal Biodiversity), CAS in Marine Biology, Annamalai University, Parangipettai (India), pp. 182-191.
131. Sankarasubramanian, G., R. Anandhan & **P. Perumal** (2000). The culture and biochemical characterization of live-food organisms with reference to copepods. In: Proc. 8th Seminar-cum-Exhibition on Student Project Schemes of the Tamil Nadu State Council for Science & Technology, Madurai (India), July, 2000, pp. 41-43.
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133. Senthilkumar, S., P. Santhanam & **P. Perumal** (2000). Diversity study in phytoplankton from Vellar estuary, Southeast coast of India. In: Proc. 5th Indian Fisheries Forum (AFS-IB), (eds. S. Ayyappan *et al.*), Central Institute of Freshwater Aquaculture (ICAR), Bhuvaneshwar (India), 17-20, Jan' 2000 (Published in 2002).
134. **Perumal, P.** (2004). Marine Biological Research in Tamil Nadu-Four decades of scientific progress along the southeast coast of India. In: Ocean sciences bridging the millennia: A spectrum of historical accounts, Proc. of ICHO VI, Quingdao, China, 1998 (eds. S. Morcos *et al.*) pp. 423-426, UNESCO, Paris, and China Ocean Press, Beijing.
135. **Perumal, P.** (2005). Faunal diversity: Zooplankton. In: UNU-INWEA-UNESCO International Training Course on Biodiversity in Mangrove Ecosystem-Course Manual, (eds. Kathiresan, K & S. Ajmal Khan), Annamalai University, (CAS in Marine Biology, Parangipettai) India, pp. 192-197.
136. Ganesan, S. & **P. Perumal** (2005). PCR studies in cultured marine copepods of Parangipettai coastal waters. In: Proc. 13th Seminar-cum-Exhibition on Student Project Schemes of Tamil Nadu State Council for Science and Technology, Tiruchirappalli (India), Aug. 2005, pp. 1-2.
137. **Perumal, P.**, P. Santhanam, S. Vijayaragavan & M. Rajkumar (2005). Tsunami impacts on the Tamil Nadu Coast. In: WAVE IN BAY (Impact of Tsunami on Coastal Resources). ENVIS Publication Series: 3/2005 (MoEn&F, Govt. of India), CAS in Marine Biology, Annamalai University, Parangipettai. Eds.T. Balasubramanian *et al.*, pp. 116-119.
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139. Leena Mol, T. & **P. Perumal** (2007). Studies on the bloom-forming algal species from Vellar estuary, Tamil Nadu. In: Proc. 15th Seminar-cum-Exhibition on Student Project Schemes of TNSCST, Tiruchengode, (India), Aug. 2007, pp. 62-65.
140. Damotharan, P., **P. Perumal**, M. Rajkumar & N. Vengadesh Perumal (2007). Meroplankton diversity in Kodiakkarai coastal waters (Southeast coast of India). In: Proc.Natl.Seminar on Emerging Scenario in Zoology, Eds.P. Sivasamy *et al.*, Dept. of Zoology, Trichy, pp.108-116.
141. **Perumal, P.** & M. Rajkumar (2007). Faunal diversity-Zooplankton. In: UNU-INWEA-UNESCO International Training Course on Biodiversity in Mangrove Ecosystem-Course Manual, (Eds. K. Kathiresan & S. Ajmal Khan), CAS in Marine Biology, Annamalai University, Parangipettai (India), pp.268-290.
142. **Perumal,P** and P.Santhanam (2009) Fisheries and Aquaculture –The Potential Food Security Sector". In: "BIORESOURCES AS A TOOL FOR FOOD SECURITY& RURAL LIVELIHOOD: CHALLENGES OF 21ST CENTURY", Ed.G.K.Kulkarni, Narendra publ., New Delhi. Pp: 27-34.
143. Anusuya,A., R.Sowmiya, V.Prinyanka & **P.Perumal** (2011). "Studies on copepod *Macrosetella gracilis* as a possible vector for *Macrobrachium rosenbergii* nodavirus (MrNV) and extra small virus (XSV) to freshwater prawn *Macrobrachium rosenbergii*

post - larvae”, In: Proc. of the Student Projects Scheme Seminar-cum-Exhibition(2010-2011), TNSCS&T, Chennai.pp.59-62.

144. Aiswarya, D., A. Archana & **P. Perumal** (2013). “Studies on screening of non-nucleoside methyltransferase inhibitor from marine seaweeds of Rameshwaram, southeast coast of India” In: Proc. of the Student Projects Scheme Seminar-cum-Exhibition (2012-2013), TNSCS&T, Chennai.pp.74-76.

STUDENT’S ADVISED: M.Phil, Ph.D & PDF:-

M.Phil:- Guided-25; Ongoing-02

Name of the Scholar	Title of the Thesis	University	Year
1) P.K. Karuppasamy	Studies on zooplankton in the Pichavaram mangroves and laboratory culture of rotifer, <i>Brachionus plicatilis</i> . P. 55.	CAS in Marine Biology, Annamalai University	1997
2) P.Santhanam	Studies on the ecology and culture of zooplankton from the Vellar estuary and Bay of Bengal. p.74.	CAS in Marine Biology, Annamalai University	1998
3) V.Ashok Prabu	Microzooplankton studies in the Parangipettai coastal environs and the culture and biochemical analysis of copepod, <i>Acartia spinicauda</i> (Giesbrecht). p. 94.	CAS in Marine Biology, Annamalai University	1999
4) K. Thillai Rajasekar	Studies on the productivity of Coleroon estuary with special reference to phytoplankton. Pp. 57.	CAS in Marine Biology, Annamalai University	2000
5) R.Venkatesan	Laboratory culture and anti-bacterial activity of the marine diatom, <i>Rhizosolenia alata</i> (Brightwell). p. 28.	CAS in Marine Biology, Annamalai University	2002
6) M.Rajkumar	Hydrobiological studies in Pichavaram mangroves (Southeast coast of India) with reference to plankton. p. 125.	CAS in Marine Biology, Annamalai University	2003
7) Biji K.Thomas	Ecological and experimental studies on zooplankton of inshore waters of Parangipettai, Southeast coast of India. p. 113.	CAS in Marine Biology, Annamalai University	2003
8) S.Vijayaraghavan	Studies on ecology of microzooplankton, culture and biochemical analysis of <i>Tintinnopsis 12ylindrical</i> (Daday 1887) from Kollidam estuary (Southeast coast of India), p. 79.	CAS in Marine Biology, Annamalai University	2006
9) N. Vengadesh Perumal	Studies on zooplankton ecology, culture and biochemical composition of copepod, <i>Acartia southwelli</i> Sewelli from Kaduviyar estuary (Southeast coast of India). p. 99.	CAS in Marine Biology, Annamalai University	2007
10) P.Damotharan	Studies on zooplankton ecology, culture and biochemical composition of copepod, <i>Acartia centrura</i> Giesbrecht 1889 from Kodiakkarai (Point Calimere) coastal waters (South east coast of India). p. 110.	CAS in Marine Biology, Annamalai University	2007
11) C.Santhosh kumar	Ecological and molecular studies in zooplankton from the Ayyampattinam, Southeast coast of India. p-120.	CAS in Marine Biology, Annamalai University	2008

12) R.Nobel Surya Pandidurai	Screening and HPTLC fingerprinting of antimicrobial compound from <i>Enteromorpha intestinalis</i> and <i>Gelidiella acerosa</i> (seaweeds). p-62.	Periyar University	2010
13) K.Kalavathi	Antimicrobial activity of <i>Gracilaria salicornica</i> , <i>Turbinaria conoides</i> and its HPTLC analysis. p-48.	Periyar University	2010
14) P.Sakthivel	Antimicrobial activity of seaweeds from Mandapam coast. p-47.	Periyar University	2010
15) Arapaleeswari.S	Genotypic characterization of ESBL positive <i>E.coli</i> strains isolated from clinical sources p-66.	Periyar University	2011
16) Gayathri. V. R.	The effect of mecA gene and mutant from the response of <i>Streptococcus aureus</i> to the most common antibiotics. p-74.	Periyar University	2011
17) Midhupriya.A	Molecular characterization of marine virus in crustacean. p-34	Periyar University	2011
18) R. Sowmiya	Studies on antibacterial activity of marine sponges (ANCHINOE Sp. & CYAMON Sp.) on fish pathogens and chemical characterization of crude extracts. p-56	Periyar University	2012
19) A. Anusuya	Molecular identification and antibacterial (Fish pathogens) properties of fresh water copepod, <i>Mesocyclops Periyar</i> (Sp Nov) from mettur dam (TamilNadu). p – 45	Periyar University	2012
20) V. Priyanka	Acute toxicity bioassay of treated sago effluent on freshwater common carp, <i>Cyprinus carpio</i> (Linnaeus, 1758) collected from mettur dam, Salem district, Tamil Nadu . p-41	Periyar University	2012
21) G. Balasubramani	GC-MS Analysis of phytocomponents of the methanolic leaf extract and green synthesis of gold nanoparticles from <i>Antigonon leptopus</i> to evaluate their antibacterial and cytotoxic properties. p-45.	Periyar University	2013
22) G. Ranjith Kumar	Studies on Expression of BMI1A and CDKN2A genes of Gamma radiated <i>Danio rerio</i> (zebrafish) embryos. p-33.	Periyar University	2013
23) M. Tufail ahmed	Evaluation of invivo & invitro anticancer activity of Nemotocyst extract from jelly fish. p-42.	Periyar University	2013
24) R.Kamalakknnan	Enhancement of HDPE biodegradation by microbes isolated from plastic waste dumping places of Salem (Tamil Nadu). p-62.	Periyar University	2014
25)M. Kavitha	Ichthyological survey in stanely	Periyar University	2014

	reservoir (Tamil Nadu), molecular phylogenetic analysis & induced hyperglycemic retinal impairment in freshwater fish, gaint Danio Devario aequipinnatus (Cypriniformes: crprinidae) p-89		
Ongoing			
26) D. Arul	Insilico analysis of β -Lactamase inhibitors and its application.	Periyar University	2015
27) P. Deepak	Studies on antidiabetic activity bioactive compounds isolated form seaweeds	Periyar University	2015

Ph.D:- Guided-12; Ongoing-08 & PDF -4

Name of the Scholar	Title of the Thesis	University	Year
1) P. Santhanam	Studies on ecology, experimental biology and live-food suitability of copepod, <i>Oithona rigida</i> Giesbrecht, from Parangipettai coastal environments (India). p.163	CAS in Marine Biology, Annamalai University	2002
2) T. Nedumaran	Studies on ecology of algae from Cuddalore coast (India) and utility of seaweeds as liquid fertilizer on crop plant. p.131	CAS in Marine Biology, Annamalai University	2002
3) V.Ashok Prabu	Ecological studies on microzooplankton from Cuddalore coast and Pichavaram mangroves (India) and the culture, feeding behaviour and biochemical analysis of copepods. p.129.	CAS in Marine Biology, Annamalai University	2002
4) K.Gandhiyappan	Experimental studies on the use of seaweeds as liquid fertilizer for crop plant, feed for prawn and as anti-microbial agents. p.118.	CAS in Marine Biology, Annamalai University	2002
5) K.Panneerselvam	Eco-biology, isolation and culture of cyanobacteria of Uppanar estuary, Cuddalore (Lat.11°42'N; Long. 79°46'E) and biodegradation studies of organophosphorus compounds. p.109.	CAS in Marine Biology, Annamalai University	2005
6) M.Rajkumar	Studies on ecology, experimental biology and live feed suitability of copepods, <i>Acartia erythraea</i> Giesbrecht and <i>Oithona brevicornis</i> Giesbrecht from Coleroon estuary (India). p.320.	CAS in Marine Biology, Annamalai University	2006
7) E.Natarajan	Localization, Identification on and partial characterization of antimicrobial proteins/peptides from the epidermal on mucous of skin and gills of selected marine fishes. p.102.	CAS in Marine Biology, Annamalai University	2008

8) K.Thillai Rajasekar	Ecological of Phytoplankton in Parangipettai & Coleroon coastal environs (India) & screening of active compounds, Toxicity bioassays of <i>Trichodesmium erythraeum</i> Ehr p.151	CAS in Marine Biology, Annamalai University	2009
9) S.Kumar	Evaluation of microRNA profile and its molecular functions in breast cancer prognosis. p.138.	Periyar University.	2013
10) R.Ramkumar	Studies on the Ulcerative Disease in Indian Major Carp, <i>Labeo rohita</i> (Hamilton, 1822): Identification of Causative Organism and Control Measures. p.152	Periyar University.	2014
11) B. Prakash	A Study of Molecular Epidemiology and Molecular docking of Salmonella spp., isolated from Poultry environment in Namakkal Dt. TamilNadu, India. p-186.	Periyar University	2014
12) C.Rajthilak	Structural and Molecular Characterization of Harpacticoid Copepod, <i>Nitokra afinis</i> Gurney, 1927 from Vellar Estuary (India) and its Laboratory culture. p-180.	Periyar University	2014
Ongoing			
13) A.Pazhanimuthu	Isolation, purification, structure elucidation & Biological evaluation of novel human histone deacetylase inhibitors from Marine sponges for the treatment of cancer. (Synopsis Submitted)	Periyar University	2010-'13
14) P.Prasath	Analysis of Gene expression data (Synopsis Submitted)	Periyar University	2010-'14
15) M. Anandhi	Comparative studies on INK 4a gene and BMI 1 gene	Periyar University	2010-'14
16) T. Natarajan	Integrated genomic approach on cervical cancer	Periyar University	2011-'14
17) R. Keerthana	Micro RNA profile in breast cancer	Periyar University	2011-'14
18) R. Sowmiya	Antimalarial activity of marine seaweeds from Bay of Bengal (TamilNadu)	Periyar University	2013-'15
19) G. Balasubramani	Studies on nanomaterial synthesis from marine resources and its structural characterization and antibiotic potentials evaluation	Periyar University	2014-2016
20) D. Aiswarya	Molecular Characterization of Nematodes	Periyar University	2014-2017
Post-Doctoral Fellowship MENTOR			
1) Dr. K. Suganthi (Dr. K. S. Kothari - Post Doctoral Fellow)	Pharmacological studies in jelly fish venom	Periyar University	2011-'14

2) Dr. V. Balasubramanian (Dr. K. S. Kothari - Post Doctoral Fellow)	Exploration of High Density Polyethylene (HDPE) degradation by <i>Enterobacter gergoviae</i> & <i>Aspergillus terreus</i> from plastic dumping places – A molecular approach.	Periyar University	2013 – ‘16
Co-ordinator/Research Supervisor			
3) Dr. M. Raja (DST-SERB)	Population Genomics habitat ecology and molecular phylogeny of wild zebrafish (<i>Danio rerio</i>) in the streams/rivers of Western Ghats and Eastern Himalayas	Periyar University	2013-2016
4) Dr. R. Karthik Raja (DST-SERB)	Isolation and characterization (genotypic and phenotypic) of commercially viable entomopathogenic nematodes for development as new generation biopesticides	Periyar University	2014-2017

Also, guided 43 M.Sc. – Dissertation works.

Professional Activities :

1. Fellow of the Academy of Zoology-An International Organisation of Zoologists, Agra (India), 1990.
2. The Indian Science Congress Association (Life Member).
3. Indian Society of Invertebrate Reproduction (Life Member).
4. The Marine Biological Association of India (Life Member).
5. Seaweed Research and Utilization Association of India.
6. International Society for Mangrove Ecosystems (ISME), Japan.
7. Senate-Member, Periyar University, Salem.
8. Member - Standing Committee on Academic Affairs and Board of Selection, Periyar University, Salem.
9. Member - Board of Research Studies, Periyar University, Salem.
10. Chairman, Board of Studies in Biotechnology (PG), Periyar University, Salem.
11. Chairman, Board of Studies in Bioinformatics (UG & PG), Periyar University, Salem.
12. Member - Mother Teresa Women's University. Board of studies in UG, PG & M. Phil-Biotechnology, Microbiology (UG & PG) & Zoology (UG).
13. PG Board of Studies –Zoology, Periyar EVR College & National College, Tiruchirappalli.
14. Coordinator - Periyar University's Patent Facilitation Centre & Industrial MoU.
15. Chairman - Periyar University Institutional Animals Ethical Committee, Salem.
16. Member-Advisory Committee for Horticulture, Periyar University, Salem.
17. Member-Periyar University Canteen-Advisory Committee, Salem.
18. Member – Day Care centre –Advisory Committee, Periyar University, Salem.
19. Member – National Service Scheme – Advisory Committee, Periyar University, Salem.
20. Chairman/Member – Inspection Committee to Colleges of Periyar University (for starting M.Sc, M.Phil & Ph.D courses).
21. Member - Periyar University Squad (during University exams in Colleges).
22. Camp officer (PG) - Valuation – PU & Chief Superintendent (PG exams of Periyar Univ. – depts.) & Chairman/ Chief for PG valuation (Biotech).
23. Member - Board of Studies in Life Sciences (UG&PG), Pondicherry University, Puducherry (2008-2012)
24. Member - Board of Studies for the M.Sc-Animal Biotechnology, Dept. of Animal Science, Bharathidasan University, Tiruchirappalli (2009-2011)

25. Member - Board of Studies for the M.Sc-Marine Sciences course, Dept. of Marine Sciences, Bharathidasan University, Tiruchirappalli (2009-2011).
26. Member: Periyar University-nominee, Board of Studies, B.Sc (Environmental studies & Microbiology & M.Sc (Biotechnology), Vivekanada College for Women (Autonomous), Tiruchengode.
27. Member – PG Board of Studies Biotechnology, Selvam College of Arts & Science, Namakkal.
28. Periyar University Representative, College Governing Body of Sri Sarada College for Women (Autonomous), Salem (2009-2011).
29. Member – Academic Council - Sri Sarada College for women (Autonomous), Salem.
30. Member - Doctoral Committees , Dept. of Biotechnology, Vivekanandha College of Arts & Science for Women (Periyar University), BDU, Tiruchirappalli , Bharathiar University, Avinasingam (Coimbatore) & Sathyabama University (Chennai).
31. Expert-Member, Board of Selection (Life Sciences), Madurai Kamaraj University, Bharathidasan & Mother Teresa Universities.
32. Expert-Member, Project Fellow(s) - Selection Committee(s), Bharathidasan University, Tiruchirappalli.
33. Referee- Reviewer for various National & International Journals (Biosciences).
34. External-Examiner for Ph.D& PG-Dissertations-evaluation of various Universities.
35. Subject-Expert, been delivering Special lectures (in various Institutes/Universities) for PG students, Research scholars/Scientists, at national (ASCs, ICAR Lab) & international (UNU-UNESCO) levels..
36. Head In-charge (Administration) - Department of Botany, Periyar University (2011-2013).
37. Member- Question Paper setting & passing board meeting, Bharathiar University, Coimbatore.
38. Member- UG Board of Studies in Environmental studies, Periyar University, Salem.
39. Member – Selection Committee for the selection SRF in ICMR Project, Periyar University, Salem.
40. Member – Board of studies in Distance Education (PRIDE), Periyar University, Salem.
41. Scientific Member – Institutional Animal Ethics Committee of Govt. Mohan Kumaramangalam Medical College, Salem-30.
42. Member – Institutional Scientific Advisory Committee of Govt. Mohan Kumaramangalam Medical College, Salem-30.

FOREIGN COUNTRIES VISITED

China, France, Singapore, Spain, South – Korea, Hong Kong, Dubai, Thailand& Scotland (UK).

Research Collaborators :

1. **DSK InnoSciences PVT. LTD.**
Kowthalam,
Kelamangalam-635 113
Hosur, India.
2. **CAS in Marine Biology**, Faculty of Marine Sciences,
Annamalai University.
3. Department of Marine Sciences,
School of Marine Sciences,
Bharathidasan University.
4. Central Research facility,
Sri Ramachandra University,
5. Department of Oceanography & Coastal Aquaculture
Alagappa University

Research Projects :-

1. Research Co-ordinator-Tamil Nadu State Council for Science and Technology-sponsored Student Project Scheme entitled, "Plankton biodiversity studies in the Pichavaram Mangroves and adjacent shrimp pond" (1996-1997).
2. Research Coordinator-Tamil Nadu State Council for Science and Technology-sponsored Student Project Scheme entitled, "The culture and biochemical characterization of live food organisms with reference to copepods" (1999-2000).
3. Research Coordinator-Tamil Nadu State Council for Science and Technology-sponsored Student Project Scheme entitled, "PCR studies in cultured marine copepods of Parangipettai coastal waters (2004-2005).
4. Principal Investigator, ICAR (Govt. of India) funded major research project entitled, "Marine copepods culture and evaluation of their suitability as live feed for fish and crustacean larvae (Rs. 12-Lakhs; 2002-2005).
5. Research Coordinator-Tamil Nadu State Council for Science and Technology sponsored Student Project Scheme entitled, "Studies on bloom forming algal Species of Vellar estuary" (2006-2007).
6. Project-Guide, CSIR-HRDG (Govt. of India)-Senior Research Fellowship (EXT) titled, "Investigations on the fish parasites of Coleroon estuary with reference to crustaceans". (Rs. 2.25 lakhs- April 2007 - March 2008).
7. Co-Principal Investigator, MoES-CMLRE (Govt. of India), "National Programme on Harmful Algal Blooms in the Indian EEZ" (2005-2008).
8. Principal Investigator, MoES-ICMAM (Govt. of India), "Marine Ecotoxicology Studies on Planktonic Organisms for Deriving Seawater Quality Criteria" (11th 5yr plan programme - Rs. 86.48 Lakhs). (till Nov. 2008).
9. Research Coordinator – Tamil Nadu State Council for Science & Technology "Studies on copepod, *Macrosetella gracilis* as a possible vector for *Macrobrachium rosenbergii* nodavirus (MrNV) and extra small virus (XSV) to freshwater prawn *Macrobrachium rosenbergii* post – larvae" (2010-2011).
10. Research Co-ordinator - Tamil Nadu State Council for Science & Technology "Studies on Screening of Non- Nucleoside methyl transferase inhibitor from marine seaweeds of Rameshwaram, Southeast Coast of India" (2012- 2013).
11. Principal Investigator, DRDO – LSRB Project, "Antimalarial activity of Marine Seaweeds from Bay of Bengal, Tamil Nadu" (April, 2012 – April, 2014).

Ongoing Projects:

1. Principal Investigator, UGC-Major Research Project, "Studies on the molecular taxonomy and Phylogeny of marine zooplankton (Calanoida; Arthropoda) from the Tamil Nadu and Puducherry Coast" (Feb. 2011 – Jan. 2014).

Awards and Honors

1. Awarded University Grants Commission's (New Delhi) - **National Eligibility Test (NET) - Research Fellowship** (1985)
2. Name has been included in the "**Directory of Mangrove Experts**", (UNDP/UNESCO-RAS/002/79) Paris (France), March, 1984.
3. **Expert-Member**, 7th Research Framework Programme of **European Commission** (No.EX 2006 C138921-2008).

SYMPOSIA/SEMINARS/CONFERENCES/ COURSES ATTENDED/ORGANISED

Symposia

1. **National Symposium on “Biology, Utilization and Conservation of Mangroves”**, Shivaji University, Kolhapur (India), 18-20 Nov.’ 85.
2. **“Pacem in Maribus” (PIM) XXII: “Peace on the Oceans”**-The annual conference of the International Ocean Institute, Malta, Chennai (Madras, India), 4-8 Dec.’ 94.
3. The UGC sponsored **“National Symposium on Aquaculture-Lab to” Land**, Dept. of Zoology, Annamalai University, Annamalai Nagar (India), 8-9 Mar.’96.
4. **“The 4th Indian Fisheries Forum” (AFS-IB), including the International Symposium, “Environment-Aquaculture Interaction”**, Kochi (India), 24-28 Nov.’96.
5. **“Seminar-cum-Exhibition”** on Student Project Schemes of Tamil Nadu State Council for Science & Technology, P.S.G. College of Technology, Coimbatore (India), 26th July’97.
6. **“National Symposium on Coastal and Estuarine Processes around India”**, Dept. of P.N.C.O., School of Chemistry, Andhra University, Visakhapatnam (India), 10-11 Sep.’97.
7. **The “6th International Congress on the History of Oceanography, China’s State 1st Institute of Oceanography, Qingdao (CHINA), 15-20 Aug.’98.**
8. The **International Seminar on “Applied Hydrogeochemistry”**, Dept. of Geology, Annamalai University, Annamalai Nagar (India), 18-20 Nov’98.
9. **International Conference on “Conservation of Tropical Species, Communities & Ecosystems”**, Tropical Botanic Garden & Research Institute, Thiruvananthapuram (India), 2-6 Dec.’98.
10. **Member-Organizing Committee**, “National Symposium on Recent Trends in Marine Algal Research in India”, Annamalai University, Annamalai Nagar (India), 27-29 Dec.’99.
11. **“The 5th Indian Fisheries Forum” (AFS-IB), including the “International Symposium on Aquaculture in the Third Millennium”**, Central Institute of Freshwater Aquaculture (ICAR), Bhuvaneshwar (India), 17-20 Jan’ 2000.
12. MoEn (Govt. of India) sponsored **Workshop-cum-Discussion Strategy & Brainstorming Session, organized in connection with drafting of National Biodiversity & Action Plan for East coast eco-region of India**, at CAS in Marine Biology, Annamalai University, Parangipettai (India), 24-02-2001.
13. **“National Symposium on “Physiology and Biochemistry of Cultivable Crustaceans”**, Dept. of Zoology, University of Madras, Chennai (India), 18-19 Feb., 2002.
14. **“National Symposium on Algae & Environment”**, Dept. Env. Sci., Univ. of Kerala, Thiruvananthapuram (India), 13-15 Feb., 2003.
15. **Third Indian Fisheries Science Congress**, National Agriculture Science Centre Complex, Pusa, New Delhi, (ISFP), 4-6 Nov., 2004.
16. National Seminar on **“Biovision-2005”**, Dept. of Zoology, Annamalai University, Annamalai Nagar (India), 21-22 Jan., 2005.
17. **National Symposium on “Marine Plants, Their Chemistry & Utilization”** Suganthi Devadason Marine Research Institute, (SR&UA), Tuticorin, 23-25 June, 2005.
18. The Toyota Foundation & 21 COE (Japan)-Sponsored Workshop on **status of pollution of heavy metals & persistent toxic substances in India**: By Ehime

- University (Japan) & CAS in Marine Biology, (Annamalai University) Annamalai Nagar (India), and 06.04.2005.
19. **The 7th Indian Fisheries Forum (AFS-IB), including the International Symposium** on, “**Fish For All Forever**”, Inland Fisheries Division, Univ. of Agricultural Sciences, Bangalore (India), 08-12 Nov., 2005.
 20. Delivered a lecture in the **Regional Seminar** on, “**Recent Trends in Zoology**”, Dept. of Zoology, National College, Trichy (India), and 06.12.2006.
 21. Chaired a scientific session & presented a paper in the 94th **Indian Science Congress**, Annamalai University, Annamalai Nagar (India), January 3-7, 2007.
 22. Delivered special lectures on Biological Oceanography (Seminar) at Red Tide Research Centre of the Dept. of Aquatic Life Medicine, Kunsan National University, Kunsan-City (South Korea), January 22-26, 2007.
 23. Attended & chaired a session in the in the National Seminar on, “**Emerging Scenario in Zoology**”, Dept. of Zoology, National College, Trichy (India), 27.09.2007.
 24. Chaired a scientific session in the National Symposium on “**Marine & Coastal Ecosystems**”, Centre for Marine & Coastal Studies, Madurai Kamaraj Univ., Madurai (India), August 27-29, 2007.
 25. Attended & presented a paper in the **95th Indian Science Congress**, Andhra University, Visakhapatnam (India), January 3-7, 2008.
 26. Attended the “**National Tamil-Science Symposium**”, Dept. of Scientific Tamil, Tamil University & Tamil Nadu Government Science Council, Thanjavur (India), February 4th & 5th 2008.
 27. Attended and presented a paper in the “**World Conference on Marine Biodiversity**”, held in **Valencia, Spain**, and November 11-15, 2008.
 28. Participated in the “**6th Natl. Conf. on “Microbial Ecology, Biodiversity, Molecular Techniques & its Prospects”** K. K. College, (Periyar University) Velur - Namakkal (India), Dec., 12 & 13, 2008.
 29. Delivered **Inaugural Lecture** for UGC sponsored “**2-day workshop on Environmental Studies**” at Govt. Arts college (Autonomous - Periyar University), Salem (India). Jan. 22nd & 23rd 2009.
 30. Convener, **National Science Day Celebration-Seminar**, Dept. of Biotechnology, Periyar University, Salem (India), Feb., 28th 2009.
 31. Secretary (Science-Dept), **State level-Scientific Tamil Exhibition**, Organized by Tamil Nadu Science council (Chennai) & Periyar University at Salem (India). Oct 26 & 27 2009.
 32. Attended and delivered lecture on Fisheries and Aquaculture-The potential Food security sector in 97th Indian Science Congress, Kerala University, Tiruvananthapuram, Kerala, January 3-7, 2010.
 33. Attended, delivered keynote address & Chaired Scientific Session, in “**National Seminar on Marine Biodiversity**”, Dept. of Marine Science, Bharathidasan University, Tiruchiruppali, 16-18, Sept, 2010.
 34. Convener, One-Day Seminar on “**Emerging Trends in Biotechnological Approaches for Infectious Disease Management (BAID-2010)**” Dept. of Biotechnology, Periyar University, Salem on 29th November, 2010.
 35. Attended the 2nd International Seminar on “Medicinal Plants and Herbal Products” organized by the Dept. of Botany, Sri Venkateswara University, Tirupati during 27th – 29th, December, 2010.
 36. Convener, One – Day Seminar on “**Intellectual Property Rights Awareness Campaign – IPRAC-2011**” Dept. of Biotechnology, Periyar University, Salem on 04-02-2011.

37. Delivered Inaugural address, National Seminar on Biotechnology, Sengunthar College, Tiruchengode, 23.02.2011.
38. Attended the PG-Biotech-Board of studies, Vivekananda College for Women (Autonomous), Tiruchengode, on 27.05.2011.
39. Attended and presented papers in the **2nd World Conference on Marine Biodiversity**, Aberdeen, Scotland (UK), 26th – 30th September, 2011.
40. Presented paper entitled **“An investigation on the copepods assemblages of a tropical Vellar estuary (India) – Application of statistical and IndVal me”** P. Perumal & P. Sakthivel in the 2nd World Conference on Marine Biodiversity held on 26th – 30th Sep., 2011 at Aberdeen, United Kingdom.
41. Delivered an Invited - Special Lecture in UGC-ASC Refresher Course on **“Biodiversity and Nanoscience”** held on 7th December, 2011 at Bharthiar University, Coimbatore.
42. Convened a National seminar on **“Emerging Trends in Plant Science” (ETPS-12)** at Periyar University, Salem on 30th January, 2012.
43. Presented paper entitled “Prevalence of *Vibrio* spp. in *Labeo rohita* from Mettur Dam, Tamil Nadu” R. Ramkumar, V. Priyanka, C. Rajthilak & **P. Perumal** in the National Conference on “Biotechnological Approaches in Aquaculture” LIVE AQUA-2012 held on 1st – 3rd February, 2012 at Bharathiar University, Coimbatore.
44. Delivered an Invited - Special Lecture in INSPIRE Internship Science Camp on **“Biodiversity and Biotechnology”** held on 07th February, 2012 at Jayam College of Engineering and Technology, Dharmapuri.
45. Presented a poster entitled “MicroRNA as a potential tool for cancer management- A review” R. Keerthana, A. Anusuya, S. Kumar & **P. Perumal** in the National seminar on “Biotechnological Insights in Disease Management” (NSBIDM-2012) at Periyar University, Salem on 8th & 9th February, 2012.
46. Presented a paper entitled “Molecular studies in marine birnavirus & White Spot Syndrome Virus, isolated from Seawater & zooplankton samples of Rameshwaram (Southeast coast of India) V.Midhupriya, C.Rajthilak, R. Ramkumar & **P. Perumal** in the National seminar on “Biotechnological Insights in Disease Management” (NSBIDM-2012) at Periyar University, Salem on 8th & 9th February, 2012.
47. Presented a paper entitled “Molecular studies in marine birnavirus & White Spot Syndrome Virus, isolated from Seawater & zooplankton samples of Rameshwaram (Southeast coast of India) V. Midhupriya, C. Rajthilak, R. Ramkumar & **P. Perumal** in the National seminar on “Biotechnological Insights in Disease Management” (NSBIDM-2012) at Periyar University, Salem on 8th & 9th February, 2012.
48. Convened a National seminar on **“Biotechnological Insights in Disease Management” (NSBIDM- 2012)** at Periyar University, Salem on 8th & 9th February, 2012.
49. Delivered an invited lecture on “Isolation and culture of Microalgae” in workshop on **“Advances in Aquaculture Technology”** at Dept. of Marine Science, Bharathidasan University, Tiruchirappalli from 20-24th February, 2012.
50. Convened a National seminar on **“Genomics and Genetic Engineering Strategies for Crop Improvement” (GGES-2012)** at Periyar University, Salem on 27th & 28th February, 2012.
51. Presented a poster entitled “Expression profile of microRNAs in breast carcinomas of younger and older patients” Subramaniam Kumar, Anna-Maria Tokes, Zsuz Sanna Baranyak, Orsolya kiss, **Pachiappan Perumal** & Janina Kulka in the Pannonia Congress of Pathology (international) at Semmelweis University Siófok, Hungary from 27 – 31st May, 2012.
52. Convened the National seminar on **“ New Horizons in Biotechnology & Bionanomedicines”** at Periyar University, Salem on 24th September, 2012
53. Delivered Lecture on “Seaweeds in Pharmacology and Nanotechnology” in **“National**

Symposium on Current Trends in Marine Plants Research and utilization” at Pondicherry University, 26th – 28th October, 2012.

54. Presented a paper entitled “Collection and identification of marine seaweeds from Rameshwaram (South east coast india) Sowmiya, R. & **P. Perumal** in “**National Symposium on Current Trends in Marine plants Research and Utilization**” from 26th-28th October, 2012 organized by Seaweed Research & Utilization Association & Perunthalaivar Kamarajar arts college, Pondicherry University, Pondicherry.
55. Presented a paper entitled “Studies on Antimicrobial activity of Marine Algae *Gracilaria salicornia* and *Turbinaria conoides* collected from Rameshwaram (South east coast India) Kalavathi, K., R. Ramkumar, C. Rajthilak, R. Sowmiya & **P. Perumal** in National Symposium on Current Trends in Marine plants Research and Utilization from 26th -28th October, 2012. Organized by Seaweed Research & Utilization Association & Perunthalaivar Kamarajar Arts College, Pondicherry University, Pondicherry.
56. Presented a paper entitled “Studies on Antimicrobial activity of Sea weeds *Enteromorpha intestinalis* (Linnaeus) and *Gelidella acerosa* (Forsskal) collected from Puducherry and Rameshwaram (South east coast India) Nobel Surya Pandidurai, R., R. Ramkumar, C. Rajthilak & **P. Perumal** in National Symposium on Current Trends in Marine plants Research and Utilization from 26th -28th October 2012 Seaweed Research & Utilization Association & Perunthalaivar Kamarajar Arts College, Pondicherry University, Pondicherry.
57. Participated and Chaired the sessions on a National symposium “Impact of climate change on Biodiversity” Organized by Department of zoology, Periyar University, Salem – 636 011.
58. Convened the National Seminar on “**Biotechnological Intervention in Plant and Microbial interaction for crop sustainability (BPMCS 2013)**” at Periyar University, 30 – 31st January, 2013.
59. Presented a poster entitled “SMP1- Role of Fytozyme in rice cultivation – a review” Arunrajan, A., A. Archana, D. Aiswarya, R. Bharath Prabu & **P. Perumal** in National seminar on Biotechnological intervention in plant and microbial interaction for crop sustainability (BPMCS- 2013) from 30-31st January, 2013 at Periyar University, Salem.
60. Participated and Presented a poster entitled “Therapeutic modulation of microRNA for the treatment of cancers – A review” Keerthana, R. , S. Kumar, A. Arun Rajan & **P. Perumal** in International conference on biological inorganic chemistry (ICBIC - 2013) from 20 – 22nd February, 2013 organized by Department of chemistry, Periyar University at Park Plaza, Salem .
61. Attended the National Conference on “Implication and intervention of phytomedicine in Disease Management (IIPDM - 2013)” held on 18th and 19th February, 2013 at Periyar University, Salem – 636 011.
62. Delivered a Special Lecture on “Biodiversity and Nanotechnology” in National Seminar on “Recent Trends” in NanoScience” organized by Department of Physics, Chemistry & Biotechnology held on 2nd March, 2013 at Padmavani Arts and Science college for Women, Salem – 636 011.
63. Organized and Convened the National Seminar on “Current Trends in Biology and Biotechnology (CTBBN - 2013)” on 11th March, 2013 at Periyar University, Salem – 636 011.
64. Presented a Poster entitled “Antibacterial activity and characterization of venom of jelly fish *Acromitus flagellates*” Archana, A. & **P. Perumal** in National Seminar on Current Trends in Biology and Bionanotechnology (CTBBN - 2013) on 11th March,

- 2013 organized by Department of Biotechnology, Periyar University, Salem – 636 011.
65. Presented a poster entitled “Molecular Characterization of Plasmid Mediated ESBL Resistant Salmonella isolated from Poultry Environment in Namakkal Distric India” Bharath Prabu, R., B. Prakash & **P. Perumal** in National Seminar on Current Trends in Biology and Bionanotechnology (CTBBN - 2013) on 11th March, 2013 organized by Department of Biotechnology, Periyar University, Salem – 636 011.
 66. Presented a poster entitled “Economic Utilization of Horn residues for microbial biomass and SCP production by solid state fermentation” Deepan Charavathy, S., P. Ilangol, B. Prakash & **P. Perumal** in National Seminar on Current Trends in Biology and Bionanotechnology (CTBBN - 2013) on 11th March, 2013 organized by Department of Biotechnology, Periyar University, Salem – 636 011.
 67. Presented a poster entitled “Studies on antibacterial activity of marine sponges on fish pathogens and chemical characterization of crude extracts” Aiswarya, D., A. Archana, R. Sowmiya, G. Balasubramani, R. Ramkumar & **P. Perumal** in National Seminar on Current Trends in Biology and Bionanotechnology (CTBBN - 2013) on 11th March, 2013 organized by Department of Biotechnology, Periyar University, Salem – 636 011.
 68. Presented a poster entitled “MicroRNA-155 regulate specific target supressors of cytokine signaling 1 gene in breast cancer –a review ”Keerthana, R., A. Arunrajan, & **P. Perumal** in National Seminar on Current Trends in Biology and Bionanotechnology (CTBBN - 2013) on 11th March, 2013 organized by Department of Biotechnology, Periyar University, Salem – 636 011.
 69. Presented a poster entitled “Investigation on the anti-cancer and analgesic effects of an extract of jelly fish *Chrysaora quinquecirrha*” Suganthi, K., M. Tufail Ahmed & **P. Perumal** in National Seminar on Current Trends in Biology and Bionanotechnology (CTBBN-2013) on 11th March, 2013 organized by Department of Biotechnology, Senate Hall, Periyar University, Salem – 636 011.
 70. Presented a poster entitled “Characterization and Phylogenetic relationship between microbes of Antarctic Ocena” Tufail Ahmed, M., N. Ramaiah & **P. Perumal** in National Seminar on Current Trends in Biology and Bionanotechnology (CTBBN-013) on 11th March, 2013 organized by Department of Biotechnology, Senate Hall, Periyar University, Salem – 636 011.
 71. Presented a poster entitled “Laboratory culture and population growth of brackishwater harpacticoid copepod, *Nitokra* sp. (Boek, 1865) under different temperature, salinity and diets” Rajthilak, C., G. Balasubramani, A. Anusuya & **P. Perumal** in National Seminar on Current Trends in Biology and Bionanotechnology (CTBBN-2013) on 11th March, 2013 organized by Department of Biotechnology, Senate Hall, Periyar University, Salem – 636 011.
 72. Presented a Poster entitled “Nanotechnology for Cancer Management – a review” Arunrajan, A., R. Keerthana & **P. Perumal** in National Seminar on Current Trends in Biology and Bionanotechnology (CTBBN- 2013) on 11th March, 2013 organized by Department of Biotechnology, Periyar University, Salem – 636 011.
 73. Presented a Poster entitled “Studies on antimicrobial activity of marine seaweeds, *Enteromorpha intestinalis* and *Sargassum fusiformis* from puducherry and rameshwaram (South East Coast of India)” Sowmiya, R., T. Natarajan, & **P. Perumal** in National Seminar on Current Trends in Biology and Bionanotechnology (CTBBN-013) on 11th March, 2013 Department of Biotechnology, Periyar University, Salem – 636 011.

74. Attended the National Workshop & Industry – Academia Interaction Meet on “Drugs and Pharmaceuticals – Research & Development” held on 12th – 13th April, 2013 at Pondicherry University, Puducherry.
75. Convened the National Symposia on” Herbs: A Natural wonder for Disease and Pest Control (HERBS - 2013) held on 20th August, 2013 organized by Department of Biotechnology, Periyar University, Salem – 636 011.
76. Organizing Secretary - International Seminar on “Nanobiotechnology in Cancer Research (NCR-2014)” held on 21st July, 2014 organized by Department of Biotechnology, Periyar University, Salem- 636 011.

Training courses

77. The Entrepreneurial Refresher Course involving theory and practicals in “**Biofouling and Marine Corrosion**”, Central Electrochemical Research Institute (CSIR), Karaikudi (India), 05-09 Sep.’88.
78. The Orientation Course on Remote Sensing Applications to “**Coastal Processes and Marine Resources**”, Indian Institute of Remote Sensing, Indian Space Research Organisation, Dehra Dun (India), 26th June- 07th July’89.
79. The Ministry of Science and Technology (Govt. of India) sponsored “**Winter School in Aquatic Ecosystems**”, Ramasarma Centre for Research in Aquaculture & Aquatic Biology, Dept. of Zoology, Sri Venkateswara University, Tirupati (India), 16th Jan. – 05th Feb.’91.
80. The Dept. of Biotechnology (Govt. of India) Sponsored Senior Level Training Programme on the “**Application of Bioindicators in the Conservation of Biodiversity**” M.S. Swaminathan Research Foundation, Chennai (Madras, India), 04 - 21 May’92.
81. The Dept. of Ocean Development (Govt. of India) Sponsored Training Programme on “**Management of Mangrove Ecosystems**” Coastal Ocean Design and Prediction system Cell, Dept. of Marine Living Resources, Andhra University, Visakhapatnam (India), 01-10 May’ 92.
82. Training Course on “**Coastal Zone Management as a Sustainable Process**” International Ocean Institute’s (Malta) Operational Centre at Indian Institute of Technology, Chennai (Madras, India), 27th June – 29th July’94.
83. University Grants Commission’s Academic Staff Orientation Scheme-Four Week **Orientation Course** for College and University Teachers organized by the Academic Staff College, Pondicherry University, Pondicherry (India), 23rd Jan – 19th Feb.’96.
84. Training Programme on “**Management of Brackish-Water Fish Farms**”, Central Institute of Fisheries Education (ICAR), at Aquaculture Research and Training Centre, Kakinada (India), 19th Sep. -03rd Oct.’ 96.
85. UGC-Sponsored Refresher Course on “**Biology Extension**”, Gandhigram Rural University, Gandhigram (India), 31st Mar. -20th Apr. ’97.
86. Training Course on, “**Basic Techniques in Animal Tissue and Cell Culture**” National Centre for Cell Science (Dept. of Biotechnology, Govt. of India), Pune (India), 18th Aug. -03rd Sep.’97.
87. Summer Institute on “**Advances in Electronic Instrumentation for field data collection in Agriculture & Ocean Sciences**” Central Institute of Fisheries Technology (ICAR), Kochi (India), 18-27th, May’ 98.
88. Training Programme in “**Gas Chromatography**”, (Analytical Instruments, Course-I), CAS in Marine Biology, Annamalai University, Parangipettai (India), 27-29th, Jan.’99.
89. UGC-Sponsored Refresher Course in “**Biosciences**”, Academic Staff College, Bharathidasan Univ., Tiruchirappalli (India), 05-25th, Oct., 2002.

90. Training Programme on, “**Advances in Fish Biotechnology**”, CAS in Fisheries Science, Central Institute of Fisheries Education (ICAR-Deemed University), Mumbai (India), 07-27th, Feb., 2004.