



Prof. P. PERUMAL
UGC-BSR FACULTY FELLOW

Contact

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Academic Qualifications: M.Sc., Ph.D. & UGC-NET.

Degree	Institution/University	Subject	Year
Ph. D.,	C.A.S. in Marine Biology, Annamalai University.	Marine Biology	1989
M. Sc.,	Annamalai University	Zoology (Human Genetics),	1982

Teaching Experience: 27 Years

Post held	Period	University/Institution
Professor & Head (Founder)	01.12.2008 - 31.05.2019	Department of Biotechnology Periyar University, Salem, Tamil Nadu (India).
Professor	01.07.2007 – 30.11.2008	C.A.S. in Marine Biology, Annamalai University, Parangipettai, Tamil Nadu (India).
Reader	01.03.2004 – 30.06.2007	C.A.S. in Marine Biology, Annamalai University, Parangipettai, Tamil Nadu (India).
Lecturer	12.07.1995 – 28.02.2004	C.A.S. in Marine Biology, Annamalai University, Parangipettai, Tamil Nadu (India).

Research Experience: 35 Years

Post held	Period	University/Institution
Faculty Research Associate (UGC 7 th Plan-Position)	22.05.1995 – 11.07.1995	C.A.S. in Marine Biology, Annamalai University, Parangipettai, Tamil Nadu (India).
Faculty Research Associate (UGC 7 th Plan-Position)	11.10.1989 – 10.10.1994	C.A.S. in Marine Biology, Annamalai University, Parangipettai, Tamil Nadu (India).
UGC (NET) Senior Research Fellow	01.10.1987 – 30.09.1989	C.A.S. in Marine Biology, Annamalai University, Parangipettai, Tamil Nadu (India).
UGC (NET) Junior Research Fellow	01.10.1985 – 30.09.1987	C.A.S. in Marine Biology, Annamalai University, Parangipettai, Tamil Nadu (India).
Junior Research Fellow (GoI-MoEn Project)	01.08.1985 – 30.09.1985	C.A.S. in Marine Biology, Annamalai University, Parangipettai, Tamil Nadu (India).
Lab. Technician (GoI-MoEn-Project)	01.05.1985 – 31.07.1985	C.A.S. in Marine Biology, Annamalai University, Parangipettai, Tamil Nadu (India).
Junior Research Fellow (GoI-MoEn Project)	01.12.1983 – 30.11.1984	C.A.S. in Marine Biology, Annamalai University, Parangipettai, Tamil Nadu (India).

Additional Responsibilities

1. **Administrative-Head (i/c), Dept. of Botany, Periyar University, Salem – 636011 (India);** July 2011 - July 2013 (**Founder & Additional Duty**).

Areas of Research:

- Biodiversity, Biochemistry & Molecular Taxonomy of Marine Plankton.
- Mass Production & live feed utilization of Plankton in fish larviculture/aquaculture.
- Eco-toxicology & Environmental Microbiology.
- Fish & Poultry diseases.
- Antimicrobial, anticancer & antimalarial compounds from seaweeds/marine bio-resources.
- Molecular Oncology & Nanobiotechnology.

Research Supervision/Guidance

Program of Study		Completed	Ongoing
Research	PDF	07	---
	Ph.D.	23	02
	M.Phil.	33	00
Project	PG	60	00
	UG/Others	-	-

Publications: Total Publications: 230 (As on 30.09.2020)

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals/Proceeding
63	16	26	01	48 (plus 76)

Cumulative Impact Factor (as per JCR)	:	114.73
h-index	:	25
i10 index	:	79
Total Citations	:	3087 (As of 30.09.2020)

Funded Research Projects: Total Number of Projects: 15 (Major: 9 Minor: 06)

Completed Major Projects: 9

S. No	Agency	Period		Project Title	Budget (Rs. In Lakhs)
		From	To		
1	ICAR	2002	2005	Marine copepods culture and evaluation of their suitability as live feed for fish and crustacean larvae	12.0
2	MoES-CMLRE (Co-Investigator)	2005	2008	National Programme on Harmful Algal Blooms in the Indian EEZ	80.00
3	MoES-ICMAM*	2008	2013	Marine Ecotoxicology Studies on Planktonic Organisms for Deriving Seawater Quality Criteria	86.48
4	MoES-INCOIS* (Co-PI)	2008	2011	Ground truth studies on phytoplankton, chlorophyll, primary productivity and hydrographical parameters along the Pondicherry and Nagappattinam coast	42.03
5	UGC	2011	2014	Studies on the molecular taxonomy and Phylogeny of marine zooplankton (Calanoida; Arthropoda) from the Tamil Nadu and Puducherry Coast	11.00

6	DRDO-LSRB	2012	2013	Antimicrobial activity of seaweeds from Bay of Bengal, Tamil Nadu	15.00
7	DST**	2013	2016	Population Genomics habitat ecology and molecular phylogeny of wild Zebrafish (<i>Danio rerio</i>) in the streams/rivers of Western Ghats and Eastern Himalayas	28.8
8	DST**	2014	2017	Isolation and characterization (genotypic and phenotypic) of commercially viable entomopathogenic nematodes for development as new generation biopesticides	31.4
9	DST**	2015	2018	A molecular approach to explore High Density Polyethylene (HDPE) degrading enzyme (s) and gene (s) in <i>Enterobacter gergoviae</i>	32.5

* After one year I have left from Annamalai University to Periyar University, Salem.

** Served as Research Co-ordinator

Completed Minor Projects: 06

S. No	Agency	Period		Project Title	Budget (Rs. In Thousands)
		From	To		
1	TNSCST	1996	1997	Plankton biodiversity studies in the Pichavaram Mangroves and adjacent shrimp pond	3.5
2	TNSCST	1999	2000	The culture and biochemical characterization of live food organisms with reference to copepods	4.0
3	TNSCST	2004	2005	PCR studies in cultured marine copepods of Parangipettai coastal waters	4.0
4	TNSCST	2006	2007	Studies on bloom forming algal Species of Vellar estuary	4.0
5	TNSCST	2010	2011	Studies on copepod, <i>Macrosetella gracilis</i> as a possible vector for <i>Macrobrachium rosenbergii</i> nodavirus (MrNV) and extra small virus (XSV) to freshwater prawn <i>Macrobrachium rosenbergii</i> post – larvae	7.0
6	TNSCST	2012	2013	Studies on Screening of Non- Nucleoside methyl transferase inhibitor from seaweeds of Rameswaram, Southeast Coast of India	5.5

Co-ordinator – Biotechnology Dept. Scheme: 01* (Periyar University)

S. No	Agency	Period		Project Title	Budget (Rs. In Lakhs)
		From	To		
1	DST-FIST	2017	2022	Research on Bionano-Herbal Medicine	57

* 2017-'19, i.e., Served until my retirement on 30.06.2019.

Ongoing Project: 01:
(At Bharathidasan University)

S. No	Agency	Period		Project Title	Budget (Rs. In Lakhs)
		From	To		
1	UGC (BSR Faculty Scheme) Dept. of Marine Sci., BDU, Trichy-24.	2019	2022	Bioassay guided isolation and characterization of active antimalarial compound(s) from seaweeds with reference to <i>Plasmodium falciparum</i> (3D7)	33

Distinctive Achievements/Awards: 04

1. Awarded the **University Grants Commission's (New Delhi) - National Educational Test (NET-An eligibility test for Lectureship-cum-Research Fellowship)-Research Fellowship (1985).**
2. Name has been included in the “**Directory of Mangrove Experts**”, (UNDP/UNESCO-RAS/002/79) Paris (France), 1984.
3. **Expert-Member**, 7th Research Framework Programme of **European Commission** (No.EX 2006 C138921-2008).
4. Awarded the Government of India, MHRD- **UGC-BSR Faculty Fellowship (2018).**

Events organized in leading roles: 19

Number of Seminars/Conferences/Workshops/Events organized: 19

1. **Member, Organizing Committee**, National Symposium on “**Recent Trends in Marine Algal Research in India**”, Annamalai University, Annamalai Nagar, India, 27th-29th Dec.1999.
2. **Convener, National Science Day Celebration-Seminar**, Periyar University, Salem, (India), 28th Feb., 2009.
3. **Secretary** (Science-Dept.), “**State level-Scientific Tamil Exhibition**”, Organized by Tamil Nadu Science Council (Chennai) & Periyar University, Salem (India), 26th – 27th Oct. 2009.
4. **Convener**, One-Day Seminar on “**Emerging Trends in Biotechnological Approaches for Infectious Disease Management**”, Dept. of Biotechnology, Periyar University, Salem (India), 29th Nov. 2010.
5. **Convener**, One – Day Seminar on “**Intellectual Property Rights Awareness Campaign**”, Dept. of Biotechnology, Periyar University, Salem (India), 4th Feb. 2011.
6. **Convener**, National Seminar on “**Emerging Trends in Plant Science**”, Periyar University, Salem, (India), 30th Jan. 2012.

7. **Convener**, National Seminar on “**Biotechnological Insights in Disease Management**”, Dept. of Biotechnology, Periyar University, Salem, (India), 8th -9th Feb. 2012.
8. **Convener**, National Seminar on “**Genomics and Genetic Engineering Strategies for Crop Improvement**”, Dept. of Biotechnology, Periyar University, Salem, (India), 27th - 28th Feb. 2012.
9. **Convener**, National Seminar on “**New Horizons in Biotechnology & Bionanomedicines**”, Dept. of Biotechnology, Periyar University, Salem, (India), 24th Sep. 2012.
10. **Convener**, National Seminar on “**Biotechnological Intervention in Plant and Microbial interaction for crop sustainability**”, Dept. of Biotechnology, Periyar University, Salem (India), 30th – 31st Jan. 2013.
11. **Organizer & Convener**, the National Seminar on “**Current Trends in Biology and Biotechnology**”, Periyar University, Salem (India), 11th Mar. 2013.
12. **Convener**, National Symposium on **Herbs: A Natural wonder for Disease and Pest Control** (HERBS - 2013), Dept. of Biotechnology, Periyar University, Salem, (India), 20th Aug. 2013.
13. **Organizing Secretary** - International Seminar on “**Nanobiotechnology in Cancer Research** (NCR-2014)”, Department of Biotechnology, Periyar University, Salem, (India), 2nd Jul. 2014.
14. **Convener**, “**Sensitization Programme on Facts and Prevention of Madras Eye- An Awareness Camp**”, Palpakki-village, Omalur-TK, Salem, (India), 14th Nov. 2014.
15. **Convener**, “**Conserve our Traditional Rice Varieties - An Awareness Camp**”, Mulaputhur-village, Gangavalli, Salem, (India), 21st Nov. 2014.
16. **Convener**, “**One day in-house training programme on soft skills**” Department of Biotechnology in association with English Dept., Periyar University, Salem (India), 4th Feb. 2015.
17. **Convener**, one day workshop on “**Molecular modelling and biopharmaceutical drug design for the biotechnology researchers**” Dept. of Biotechnology in association with Computer centre, School of Biosciences, Periyar University, Salem India), 5th Mar. 2015.
18. **Coordinator**, Periyar University-Convocation Committee (Main Gate-Decoration), Periyar University – Convocations (2009-2018).
19. **Evaluator** in Oratorical competition held for the students of School of Biosciences for the National Science Day Celebrations-2017 by Periyar University, Salem (India), 28th Feb. 2017.

Events Presented/ Participated: 91

Papers Presented in International Conferences: 08

1. Participated and presented a paper in “The 4th Indian Fisheries Forum” (AFS-IB), including the International Symposium, “**Environment-Aquaculture Interaction**”, Kochi, India, 24th -28th Nov.1996.
2. Participated and presented a paper in International Seminar on “**Applied Hydrogeochemistry**”, Dept. of Geology, Annamalai University, Annamalai Nagar, India, 18th - 20th Nov.1998.
3. Participated and presented a paper in International Conference on “**Conservation of Tropical Species, Communities & Ecosystems**”, Tropical Botanic Garden & Research Institute, Thiruvananthapuram, India, 2nd - 6th Dec.1998.
4. Participated and presented a paper in “**The 5th Indian Fisheries Forum**” (AFS-IB), including the International Symposium on “**Aquaculture in the Third Millennium**”, Central Institute of Freshwater Aquaculture (ICAR), Bhubaneswar, India, 17th - 20th Jan. 2000.
5. Participated and presented a paper in **7th Indian Fisheries Forum** (AFS-IB), including the International Symposium on, “**Fish for all Forever**”, Inland Fisheries Division, Univ. of Agricultural Sciences, Bangalore, India, 8th - 12th Nov. 2005.
6. Participated & delivered a **Plenary Lecture** in an International conference on “**Advances in Algal Biotechnology**” organised by School of Biosciences and Technology, VIT University, Vellore, India, 10th -12th Aug. 2016.
7. Participated, session-chaired & presented a paper in an International conference on “**Biodiversity and Sustainable Resource Management**”, Centre for Environmental Sciences, University of Madras, Chennai, India, 12th & 13th March, 2018.
8. Participated & delivered an invited lecture entitled “ Synthesis of nanoparticles from Seaweeds - A Review” in the **2nd International Conference on Recent Trends in Applied Science & Technology (ICRTAST-2018)**, organized by Periyar University & Indian Science & Technology Association (Elavenil), Salem, India, 23rd-25th, Aug.2018.

Papers Presented In National Conferences: 09

1. Participated and presented a paper in the National Symposium on “**Coastal and Estuarine Processes around India**”, Dept. of P.N.C.O., School of Chemistry, Andhra University, Visakhapatnam, India, 10th & 11th Sep.1997.
2. Participated and presented a paper in the National Symposium on “**Physiology and Biochemistry of Cultivable Crustaceans**”, Dept. of Zoology, University of Madras, Chennai, India, 18th & 19th Feb.2002.

3. Participated and presented a paper in the National Symposium on **“Algae & Environment”**, Dept. of Environmental Sciences University of Kerala, Thiruvananthapuram, India, 13th-15th Feb.2003.
4. Participated and presented a paper in **Third Indian Fisheries Science Congress**, National Agriculture Science Centre Complex, PUSA, New Delhi, India, 4th - 6th Nov. 2004.
5. Participated and presented a paper in National Symposium on **“Marine Plants, Their Chemistry & Utilization”**, Suganthi Devadasan Marine Research Institute, (SR&UA), Tuticorin, India, 23rd - 25th Jun. 2005.
6. **Chaired** a scientific session & presented a paper in the **“94th Indian Science Congress”**, Annamalai University, Annamalai Nagar, India, 3rd - 7th Jan. 2007.
7. Participated and presented a paper in the **“95th Indian Science Congress”**, Andhra University, Visakhapatnam, India, 3rd - 7th Jan. 2008.
8. Participated and presented a paper in the National Conference on **“Biotechnological Approaches in Aquaculture”** LIVE AQUA-2012, Bharathiar University, Coimbatore, India, 1st – 3rd Feb.2012.
9. Participated and presented a paper (as chair person) in the **“XLI Indian Social Science Congress”**, Periyar University, Salem, India, 18th - 22nd Dec. 2017.

Special Lecture Delivered/Research Presentation: 28.

1. Delivered a **Special Lecture** in the **Regional Seminar** on, **“Recent Trends in Zoology”**, Dept. of Zoology, National College, Trichy, India, 6th Dec.2006.
2. Delivered **Special Lecture on Zooplankton** to the participants of the **UNU-INWEH-UNESCO International Training Course on “Biodiversity in Mangrove Ecosystems”** at CAS in Marine Biology, Annamalai University, Annamalai Nagar, India, May31st-June,14th,2004.
3. Delivered **Special Lecture on Faunal diversity – Zooplankton** to the participants of the **UNU-INWEH-UNESCO International Training Course on “Biodiversity in Mangrove Ecosystems”** at CAS in Marine Biology, Annamalai University, Annamalai Nagar, India, 10th Jun.2007.
4. Delivered **Inaugural Lecture** for UGC sponsored **“2-day workshop on Environmental Studies”**, Govt. Arts college (Autonomous - Periyar University), Salem, India, 22nd - 23rd Jan. 2009.
5. Attended & delivered **Invited Lecture** on Fisheries and Aquaculture-The potential Food Security Sector in **“97th Indian Science Congress”**, Kerala University, Thiruvananthapuram, India, 3rd - 7th Jan. 2010.
6. Attended & delivered **Keynote Address & Chaired Scientific Session**, in **“National Seminar on Marine Biodiversity”**, Dept. of Marine Science, Bharathidasan University, Tiruchirappalli, India, 16th-18th Sept. 2010.

7. Delivered the **Special Address, during the inauguration of Zoology Association**, Dept. of Zoology, Kandasami Kandar's College, Velur, Namakkal, India, 8th Oct. 2010.
8. Delivered the **Inaugural Address**, National Seminar on, "**Biotechnology**", Sengunthar College, Tiruchengode, India, 23rd Feb. 2011.
9. Delivered **the Invited Special Lecture** titled, "**Bioscience & Nanotechnology**", Refresher Course-Participants, Academic Staff College, Bharathiar University, Coimbatore, India, 7th Dec. 2011.
10. Delivered **Plenary lecture**, National Seminar on "**Emerging Trends in Plant Sciences (ETPS-2012)**", Dept. of Botany, Periyar University, Salem, 30th Jan. 2012.
11. Delivered **Special Lecture** on "**Isolation & culture of Microalgae**" in the Workshop on "**Advances in Aquaculture Technology**", Dept. of Marine Science, Bharathidasan University, Tiruchirappalli, India, 20th Feb. 2012.
12. Delivered **invited Special Lecture** on Biotechnology in **INSPIRE Internship Science Camp on Biodiversity**, Jayam College of Engineering, Dharmapuri, India, 7th Feb. 2012.
13. Delivered **invited lecture** on "**Thrust Areas, Research Activities and Funding Agencies in Biological Sciences**" in the TNSCST sponsored Orientation Programme on Research Activities in Science for College Teachers, Periyar University, Salem, 26th March 2012.
14. Delivered the "**Srilochini Varadharajulu Endowment Lecture**", Dept. of Agricultural Microbiology, Faculty of Agriculture, Annamalai University, Annamalai Nagar, India, 16th April, 2012.
15. Delivered **Special Lecture** on "**Seaweeds in Pharmacology and Nanotechnology**" & presented paper in "**National Symposium on Current Trends in Marine Plants Research & Utilization**", Pondicherry University, Puducherry, India, 26th – 28th Oct. 2012.
16. Delivered a **Special Lecture** on "**Biodiversity and Nanotechnology**" in National Seminar on "**Recent Trends in Nanoscience**" organized by Dept. of Physics, Chemistry & Biotechnology, Padmavani Arts & Science college for Women (Periyar University), Salem, India, 2nd Mar. 2013.
17. Delivered **Special Lecture** in National Seminar on "**Application of Current Trends in Biological Sciences**", Sree Amman Arts & Science College, Erode, India, 30th Jan. 2014.
18. Delivered **Special Lecture** in 12th National Level Biological Congress on "**Recent Advances in Biological Sciences towards Sustainable Development**", Muthayammal College of Arts & Science, Rasipuram, India, 9th – 10th Jan. 2015.
19. Delivered an **Invited Talk** in an International conference on "**Biosciences-Boon to Mankind**" at Shri Sakthikailassh Women's College, Ammapet, Salem, India, 24th & 25th Aug. 2015.

20. **Delivered the keynote address** in an **“International workshop on conservation and sustainable use of biodiversity in India”**, Thiruvalluvar University, Serkaadu, Vellore, India, 18th & 19th Sep.2015.
21. Delivered an invited lecture entitled, **“Introduction to Molecular Taxonomy of Marine Copepods”**, in the Hands-on Training on **“Taxonomic Identification of Coastal & Oceanic COPEPODS”** , Dept. of Marine Science, Bharathidasan University, Tiruchirappalli, India, 12th July, 2017.
22. Attended & served as **Resource Person** in the Hands-on Training programme on **“Taxonomic Identification of Coastal and Oceanic Copepods (TICOC-2017)”** organised by Dept. of Marine Science, Bharathidasan University, Tiruchirappalli, India, 12-14th Jul. 2017.
23. Delivered the Chair-Person (Biotechnology)-Address entitled, **“Recent Advances in Nano- Biotechnology.....Biomedicine”**, in XLI INDIAN SOCIAL SCIENCE CONGRESS organized by IASS & Periyar University, at Periyar University, Salem, India, 18th Dec.2017.
24. Advisor, served as Resource person & delivered special lecture on copepods in the **Hands on Training Programme on Taxonomic Identification of Coastal & Oceanic Copepods (TICOC-2018)**, part of GoI-MoEnF&CC - AICOPTAX Project on DNA Barcoding, Dept. of Marine Science, Bharathidasan University, Tiruchirappalli, India, 25th Sept.2018.
25. Delivered Special lecture titled, **“Seaweeds and their uses”** in the National Workshop on Advanced Trends in Marine Macro Algal Taxonomy, Cultivation & Utilization” , GoI - MoEnF & CC sponsored, under AICOPTAX Project on DNA Barcoding, Botanical Survey of India, Coimbatore, India, 22nd Oct.2019.
26. Delivered the inaugural and special address during the **“National level Training cum Empowerment Programme on Artemia Culture”**, at Rajiv Gandhi Centre for Aquaculture, Govt. Of India, Sirkali & Bharathidasan University, Tiruchirappalli, India, 19th Feb.2020.
27. Delivered invited Special lecture titled, **“Morphological Identification of Marine Copepods”** to the participants of the **GoI-DBT Sponsored Virtual Training Course on “Techniques in Intensive Production of Marine Copepods”** Dept. of Marine Science, Bharathidasan University, Tiruchirappalli, India, 17th Jun.2020.
28. Delivered felicitation address, International Webinar on **'Living Capsules in Aquaculture (LICA-2020)'**, Dept.of Marine Science, Bharathidasan University, Tiruchirappalli, India, 13th Oct.2020.

Overseas Lectures/ Seminars/ Presented: 04

1. Attended & presented paper in the **“6th International Congress on the History of Oceanography**, China’s State 1st Institute of Oceanography, Qingdao, **CHINA, 15th-20th Aug.1998.**
2. 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, 22nd-26th Jan. 2007.**

3. Participated & presented a paper in the **“1st World Conference on Marine Biodiversity”**, Valencia, **Spain, 11th-15th, Nov. 2008.**
4. Participated & presented papers in the **2nd World Conference** on Marine Biodiversity, Aberdeen, **Scotland, UK, 26th – 30th Sep. 2011.**

National Seminar Presentation: 07

1. Participated and presented a paper in the National Symposium on **“Biology, Utilization and Conservation of Mangroves”**, Shivaji University, Kolhapur, India, 18th-20th Nov. 1985.
2. Participated and presented a paper in **“Pacem in Maribus” (PIM) XXII: “Peace on the Oceans”**-The annual conference of the International Ocean Institute (Malta) at Chennai, India, 4th-8th Dec. 1994.
3. Participated and presented a paper in UGC sponsored **“National Symposium on Aquaculture-Lab to Land”**, Dept. of Zoology, Annamalai University, Annamalai Nagar, India, 8th-9th Mar.1996.
4. Participated and presented a paper in National Seminar on **“Biovision-2005”**, Dept. of Zoology, Annamalai University, Annamalai Nagar, India, 21st-22nd Jan. 2005.
5. Participated & Presented paper & chaired a session in the National Seminar on **“Recent Trends in Aquaculture Practices Towards Technological Empowerment of Aquaculture Farmers”** Dept. Of Zoology, Bharathiar University, Coimbatore, India, 7th & 8th Aug.,2008.
6. Participated & Presented a poster-paper in the National Conference on **“Frontiers in Algology and Algal Biotechnology”**, Dept. Of Botany, Visva-Bharati (A Central University), Santi Niketan, India, 15th - 17th Nov.2013.
7. Participated and presented a paper entitled “Therapeutic modulation of microRNA for the treatment of cancers – A review” in **“International Conference on Biological Inorganic Chemistry”**, Department of Chemistry, Periyar University, Salem, India, 20th – 22nd Feb. 2013.

National Seminars/Workshops Participated/ Session Chaired: 21.

1. PACEM IN MARIBUS (PIM) XXII **“Peace on the Oceans**-The Annual Conference of the International Ocean Institute, Malta, at IIT, Madras (Chennai), 4th-8th Dec.1994.
2. Participated in **“Seminar-cum-Exhibition”** on Student Project Schemes of TNSCST, P.S.G. College of Technology, Coimbatore, India, 26th Jul.1997.
3. Participated in the **“5th Indian Fisheries Forum”**, Asian Fisheries Society, CIFA- ICAR, Bhuvneshwar, India, 17th - 20th, Jan.2000.
4. Participated in MoEn (Govt. of India) sponsored **Workshop-cum-Discussion Strategy &**

Brainstorming Session, organized in connection with drafting of National Biodiversity & Action Plan for East Coast Ecoregion of India, CAS in Marine Biology, Annamalai University, Parangipettai, India, 24th Feb. 2001.

5. Participated in 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, 6th Apr.2005.
6. **Chaired** a scientific session in the National Symposium on **“Marine & Coastal Ecosystems”**, Centre for Marine & Coastal Studies, Madurai Kamaraj University, Madurai, India, 27th-29th Aug. 2007.
7. Attended & **chaired** a session in the in the National Seminar on, **“Emerging Scenario in Zoology”**, Dept. of Zoology, National College, Trichy, India, 27th Sep. 2007.
8. Participated in **“National Tamil-Science Symposium”**, Dept. of Scientific Tamil, Tamil University & Tamil Nadu Government Science Council, Thanjavur, India, 4th -5th Feb. 2008.
9. Participated in the 6th National Conference on **“Microbial Ecology, Biodiversity, Molecular Techniques & its Prospects”** K. K. College, (Periyar University) Velur – Namakkal, India, 12th -13th, Dec. 2008.
10. Participated in the 2nd International Seminar on **“Medicinal Plants and Herbal Products”**, Dept. of Botany, Sri Venkateswara University, Tirupati, India, 27th – 29th, Dec. 2010.
11. Participated & **Chaired the sessions** in a National symposium **“Impact of climate change on Biodiversity”**, Dept. of Zoology, Periyar University, Salem, India, 23rd Jan. 2013.
12. Participated & **Chaired a session** in the National Conference on **“Implication and interventions of phytomedicine in Disease Management”**, Dept. of Biotechnology, Periyar University, Salem, India, 18th & 19th Feb. 2013.
13. Participated in the **National Workshop & Industry-Academia Interaction Meet on “Drugs and Pharmaceuticals – Research & Development”**, Pondicherry University, Puducherry, India, 12th – 13th Apr. 2013.
14. Participated in a National conference on **“Frontiers in Algology and Algal Biotechnology”**, Vishwa-Bharati (A Central University), Santi Niketan, India, 15th – 17th Nov.2013,
15. Participated in the national conference on **“NANO INDIA 2015”**, Centre of Nanotechnology & Advanced Biomaterials, SASTRA–Deemed to be University, Thanjavur, India, 29th & 30th Jan.2015.
16. Participated in the Interaction programme on **“DST Schemes for Researchers”** organized by the Centre for Nanoscience and Nanotechnology, Periyar University, Salem, India, 12th Jun. 2015.
17. Attended a workshop on **“Protein Separation and Purification Techniques”** organised by the Dept. of Biotechnology, Periyar University, Salem, India, 9th Oct.2015.

18. Attended a workshop on **“Exploratory Analysis of Biological Data using R-Programme”** organised by the Dept. of Biotechnology, Periyar University, Salem, India, 17th Dec. 2015.
19. Participated in One Day Seminar on **“National Science Day- Celebration, Internal Quality Assurance Cell (IQAC)”**, Periyar University, Salem, India, 26th Feb. 2016.
20. Participated & **chaired a session** in the **“National Conference on Emerging Biomaterials (NCEB-2016)”** organised by Dept. of Nanoscience and Technology, Bharathiar University, Coimbatore, India, 19th Oct. 2016.
21. Attended & **served as an evaluator in oratorical competition** in a theme **“Science and Technology for Specially Abled Persons”** for the **National Science Day Celebrations-2017** organised by Periyar University, Salem, India, 28th Feb. 2017.

Training Courses Attended: 14

1. The Entrepreneurial Refresher Course involving theory and practicals in **“Biofouling and Marine Corrosion”**, Central Electrochemical Research Institute (CSIR), Karaikudi, India, 5th-9th Sep. 1988.
2. 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 Jun.- 07th Jul. 1989.
3. The Ministry of Science & 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. 1991.
4. The Dept. of Biotechnology (Govt. of India) Sponsored Senior Level Training Programme on the **“Application of Bioindicators Technology in the Conservation of Biodiversity”** M.S. Swaminathan Research Foundation, Chennai, India, 04th – 21st May 1992.
5. The Dept. of Ocean Development (Govt. of India) Sponsored Training Programme on **“Management of Mangrove Ecosystems”** Coastal Ocean Design & Prediction System Cell, Dept. of Marine Living Resources, Andhra University, Visakhapatnam, India, 01st - 10th March, 1993.
6. Training Course on **“Coastal Zone Management as a Sustainable Process”** International Ocean Institute's (Malta) Operational Centre at Indian Institute of Technology, Chennai, India, 27th June – 29th July 1994.
7. 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, Puducherry, India, 23rd Jan. – 19th Feb. 1996.
8. 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. 1996.

9. UGC-Sponsored Refresher Course on “**Biology Extension**”, Gandhigram Rural University, Gandhigram, India, 31st Mar. -20th Apr. 1997.
10. 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. 1997.
11. Summer Institute on “**Advances in Electronic Instrumentation for field data collection in Agriculture & Ocean Sciences**” Central Institute of Fisheries Technology (ICAR), Kochi, India, 18th-27th, May 1998.
12. Training Programme in “**Gas Chromatography**”, (Analytical Instruments, Course-I), CAS in Marine Biology, Annamalai University, Parangipettai, India, 27th-29th, Jan. 1999.
13. UGC-Sponsored Refresher Course in “**Biosciences**”, Academic Staff College, Bharathidasan University, Tiruchirappalli, India, 5th-25th, Oct. 2002.
14. Training Programme on, “**Advances in Fish Biotechnology**”, CAS in Fisheries Science, Central Institute of Fisheries Education (ICAR-Deemed University), Mumbai, India, 7th-27th, Feb. 2004.

Overseas Exposure/Visits

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

Research Collaborators/ MoUs

1. **DSK InnoSciences Pvt. Ltd.**
Kowthalam, Kelamangalam
Krishnagiri (Dt.), Tamil Nadu.
2. **AURA Biotechnologies Pvt. Ltd.**
Ayyanavakkam, Chennai, Tamil Nadu.
3. **CAS in Marine Biology**
Faculty of Marine Sciences
Annamalai University, Chidambaram, Tamil Nadu.
4. Central Research Facility
Sri Ramachandra –Deemed to be- University
Chennai, Tamil Nadu.
5. Department of Biomedical Sciences
Alagappa University
Karaikudi, Tamil Nadu.
6. Department of Pathology
Faculty of Medicine,
Semmelweis University, Budapest, Hungary.

Membership in:

Professional Bodies

1. Fellow of the Academy of Zoology-An International Organization 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. Member - Seaweed Research and Utilization Association of India.
6. Member - International Society for Mangrove Ecosystems (ISME), Japan (1990-93).

Editorial Board/Reviewer

1. Editor-In-Chief, International Journal of Pure & Applied Biotechnology, Periyar University (2015-'16).
2. Associate Editor, THE LIFE - Journal (T&F)
3. Seaweed Research & Utilization Association J (2011-2012)
4. Journal of Biosciences (Indian Academy of Sciences)
5. Journal of Nano-Micro Letters (Springer)
6. Journal of Archives of Microbiology (Springer)
7. Turkish Journal of Fisheries and Aquatic Sciences
8. Indian Journal of Geo-Marine Science
9. Journal of HIV and AIDS Research
10. Journal of Photochemistry and Photobiology B: Biology
11. Journal of BMC Microbiology
12. Journal of Toxicology Reports
13. Journal of Parasitology

Advisory Board

1. Member - Advisory Committee for Horticulture, Periyar University, Salem (2010-2013).
2. Member - Periyar University Canteen-Advisory Committee, Salem (2010-2013).
3. Member - Day Care Centre –Advisory Committee, Periyar University, Salem (2010-2013).
4. Member - National Service Scheme – Advisory Committee, Periyar University, Salem.

5. Member - DSIR Research Advisory Committee, Periyar University, Salem (2011-2013).
6. Member - Institutional Scientific Advisory Committee of Govt. Mohan Kumaramangalam Medical College, Salem-30 (2014-2016).

Academic Bodies (such as Member in Board of Studies etc.): 52

1. Academic Council-Member, Annamalai University (2004-2008).
2. Senate - Member, Periyar University, Salem (2008-2019).
3. Member - Standing Committee on Academic Affairs (SCAA), Periyar University (2008-2019).
4. Member, Board of Selection of Faculty & AGP Screening Committee, Periyar University, Salem (2009-2019).
5. Member - Board of Research Studies, Periyar University, Salem (2008-2015).
6. Chairman - Board of Studies in Biotechnology (PG), Periyar University, Salem (2009-2019).
7. Chairman - Board of Studies in Bioinformatics (UG & PG), Affiliated Colleges of Periyar University, Salem (2009-2019).
8. Chairman - Periyar University Institutional Animals Ethical Committee, Salem (2011-2016).
9. Coordinator - Periyar University's Patent Facilitation Centre & Industrial MoU (2011-2016).
10. Member (Biological Sciences) - Curriculum Development Cell, Periyar University, Salem (2015-2019).
11. Chairman/Member - Inspection Committees: Inspected the affiliated Colleges of Periyar University (for starting/ continuing/permanent affiliation/ granting additional sections of B.Sc., M.Sc., M.Phil. & Ph.D. – Courses: < Dozen Colleges; 2009-2019).
12. Camp Officer (PG) - Valuation – PU (2010) & Chief Superintendent (PG exams of Periyar Univ. – Depts.) & Chairman/ Chief for PG valuation (Biotech), Periyar University, Salem (2009-2017).
13. Member-Periyar University Squad (during University exams in affiliated Colleges) (2010-2015).
14. Member, Selection Committee for selecting the students for IAS Coaching by PERIYAS, Periyar University, (2009).
15. Member-Board of Studies in Distance Education (PRIDE), Periyar University, Salem (2009-2015).
16. Member-PG Board of Studies in Microbiology, Periyar University, Salem (2010-2019).
17. Member-Board of Studies in Department of Ancient Science, Tamil University, Thanjavur

(2017-2019).

18. Member (V.C. Nominee)-PG Board of Studies in Zoology, Pondicherry University, Puducherry (2017-2019).
19. Member - UG Board of Studies in Environmental Studies (PRIDE), Periyar University, Salem (2008-2015).
20. Member - PG- Admission Scrutiny Committee, PG Centre & Constituent Colleges, Periyar University, Salem (2010-2013).
21. Member - UGC-XII Plan Fund Reallocation Committee, Periyar University, Salem (2011-2013).
22. Member - Auction Committees (Old Cars, Tamarind Fruits & Old News Papers), Periyar University, Salem (2011-2013).
23. Coordinator Decoration Committee (Main Gate), 12th Science Conference on “Conservation of Natural Resources & Green Technology”, by Tamil Nadu Science Forum & Periyar University, Salem, 23rd-25th August, 2012.
24. Subject Expert-Member - Selection Committee for the selection of Project Fellows (ICMR, CSIR, UGC & TNSCST Projects), Periyar University, Salem (2010-2018).
25. Periyar University - Representative, College Governing Body of Sri Sarada College for Women (Autonomous), Salem (2009 - 2011).
26. Periyar University Nominee - Academic Council - Sri Sarada College for women (Autonomous), Salem (2011-2013).
27. One- person-Inspection Committee, Inspected the facility at the Distance Education-Learning Centre (DDE-PRIDE, Periyar University), at Tholudur, Cuddalore- District, on 05.05.2011.
28. Member: Periyar University-Nominee, Board of Studies, B.Sc. (Environmental studies & Microbiology) & M.Sc. (Biotechnology), Vivekananda College for Women (Autonomous), Tiruchengode (2011-2015).
29. Member (Biosciences) – Syllabus Drafting Committee of Curriculum Development Cell, Bharathiar University, Coimbatore (2016-2019).
30. Expert Member (Bio & Chemical Sciences) – Academic Auditing, Bharathiar University, Coimbatore (2013).
31. Thiruvalluvar University’s V.C.-Nominee, Academic Council, Adhiparasakthi College of Arts & Science (Autonomous), Kalavai, Vellore-Dt.(2015-2018).
32. Scientific Member - Institutional Animal Ethics Committee of Govt. Mohan Kumaramangalam Medical College, Salem-30 (2014-2016).
33. Govt. Of India’s Nominee, External Expert- DBT – Institutional Bio- safety Committee (IBSC), for M/s Aura Biotechnologies (Pvt.) Ltd., Chennai – 119.(2015-2018).
34. Member - Mother Teresa Women’s University’s Board of Studies in UG, PG & M. Phil- Biotechnology, Microbiology (UG & PG) & Zoology (UG)- Courses (2012-2015).
35. Member - PG Board of Studies - Zoology, Periyar EVR College & National College,

- Bharathidasan University, Tiruchirappalli (2011-2014).
36. Member - Board of Studies in Life Sciences (UG&PG), Pondicherry University, Puducherry (2008-2012).
 37. Member - Board of Studies for the M.Sc.-Animal Biotechnology, Dept. of Animal Science, Bharathidasan University, Tiruchirappalli (2009-2011).
 38. Member - Board of Studies for the M.Sc.-Marine Science, Dept. of Marine Sciences, Bharathidasan University, Tiruchirappalli (2009-2011).
 37. Member of Enquiry Committee (Faculty), M.S. University, Tirunelveli (2012).
 39. Member- Board of Studies, Biotechnology (UG), Alagappa University, Karaikudi (2013-2015).
 40. Expert Member (Biotechnology), Equivalence Committee Meeting of TANSCH, Chennai, (2015).
 41. Expert-External-Member, Research Committee on Multi-disciplinary Research Unit, Govt. Mohan Kumara Mangalam Medical College, Salem (2014-2016).
 42. Member - PG Board of Studies (Biotechnology), Selvam College of Arts & Science (Autonomous), Periyar University, Namakkal (2014-2017).
 43. Member, PG Board of Studies (Biotechnology), Muthayammal College of Arts & Science, Rasipuram, Periyar University (2014-2017).
 44. Member – PG Board of Studies (Biology), Tamil University, Thanjavur (2015-2018).
 45. Subject Expert-Member - Doctoral Committees. Dept. of Biotechnology of Periyar University and its affiliated colleges and for Anna, Bharathiar, Bharathidasan, Avinacilingam, Sathyabama & Manonmaniam Sundaranar Universities. (2010-2019).
 46. Expert-Member, Project Fellow(s) - Selection Committee(s), Bharathidasan University, Tiruchirappalli & Bharathiar University, Coimbatore (2010-2018).
 47. Chairman - Question Paper setting & Passing Board/ Committees, Annamalai, Bharathiar Universities & Gandhi gram Rural Institute (2010-2018).
 48. Expert-Industry Monitoring Committee Member of Biotech Consortium India Ltd., Govt. of India, New Delhi (2013).
 49. CBSE - OBSERVER, UGC-NET EXAM, KOCHI, Kerala, 08th July, 2018.
 50. Expert-Member, Board of Selection of Faculty & for Screening-Cum-Evaluation Committees; UGC-CAS & Open (Biotechnology/Life Sciences), Andhra, Dravidian, Madras, Madurai Kamaraj, Bharathiar, Bharathidasan, Manonmaniam Sundaranar, Thiruvalluvar, Mother Theresa & Tamil Universities.
 51. Member-Expert, Sub-Committee (New Department Creation), Bharathidasan University, Tiruchirappalli, (2012).
 52. External-Examiner/Expert for Ph. D & PG-Dissertations-Evaluation Boards of various Universities and also expert-reviewer of research projects of various national funding agencies besides overseas projects like project on socio-economic upliftment of coastal folks of Sri Lanka (1995-2019).

Others

1. Articles published in Newspapers/Magazines	: 05
2. Products developed	: Nil.
3. No. of Ph.D. Thesis evaluated	: 91
4. No. of Ph.D. Public Viva Voce Examination conducted	: 79
5. Sequences submitted in GenBank	: 123

Publications in SCI/UGC CARE LISTED JOURNALS (from 1985-2020)

Publication of Books: (2012-2019): 11

1. Santhanam, P., Ajima Begum & **P. Perumal**, 2019. Basic and Applied Phytoplankton Biology. Springer Publisher (ISBN 978-981-10-7937-5), 336pp.
2. Santhanam, P., Ajima Begum & **P. Perumal**, 2019. Basic and Applied Zooplankton Biology. Springer Publisher (ISBN 978-981-10-7952-8), 442pp.
3. Aiswarya, D, R.Karthik Raja. & **P. Perumal**, 2017. Studies on characterization and antibacterial activities of symbiotic bacteria (*Xenorhabdus* & *Photorhabdus*) isolated from entomopathogenic nematodes. Lambert Academic Publishing, Germany, (ISBN: 978-620-2-09371-2) 69pp.
4. Deepak, P, R.Kasthuridevi & **P. Perumal**, 2017. *In vitro* antibacterial and antioxidant activities of brown seaweeds. Lambert Academic Publishing, Germany, (ISBN: 978-620-2-07765-1) 69pp.
5. Deepak, P, R.Sowmiya & **P. Perumal**, 2017. Bioactivities of *Turbinaria ornata* and its silver nanoparticles. Lambert Academic Publishing, Germany, (ISBN: 978-620-2-07119-2) 81pp.
6. Raja, M., M. Kavitha & **P. Perumal**, 2016. Survey, Molecular Phylogeny and induced Hyperglycemia in Giant Danio. Lambert Academic publishing (ISBN: 978-3-659-86935-8) 107pp.
7. Raja, M., A. Jayanthi, M. Kavitha & **P. Perumal**, 2016. The effects of hyperglycemia on adrenal cortex function and steroidogenesis in the freshwater fish, Giant Danio *Devario aequipinnatus* (Cypriniforms; Cyprinidae), Lambert Academic Publishing, Germany. 61pp.
8. Balasubramani, G., R. Sowmiya & **P. Perumal**, 2015. Molecular characterization and sequencing of 18S rDNA gene of red beard sponge, *Clathria reinwardti*: Molecular characterization of Marine sponges. Lambert Academic Publishers (ISBN 978-3-659-74523-2) 81pp.
9. Balasubramani, G., R. Ramkumar & **P. Perumal**, 2015. Antibacterial and cytotoxic properties of methanolic leaf extract and gold nanoparticles of *Antigonon leptopus*: Biological properties of *Antigonon leptopus* Hook. & Arn. Lambert Academic Publishers (ISBN 978-3-659-74574-4).151pp.
10. Santhanam, P., A. R. Thirunavukkarasu & **P. Perumal**, 2015. Advances in Marine and Brackishwater Aquaculture. Springer Publisher (ISBN 978-81-322-2270-5). 263 pp.

11. Santhanam, P & **P. Perumal**, 2012. Marine Biodiversity: Present Status and Prospects. Narendra Publishing House, Delhi (India), (ISBN 9789380428550), 266pp.

Publication of Book Chapters/Monographs/Manuals: (1985-2019): 37

1. Santhanam, P., S. Ananth, S. Dinesh Kumar, P. Raju, M. Kaviyarasan, M. Divya, N. Krishnaveni, S. Balakrishnan, N. Manickam, T. Veeramani, T. Muralisankar and **P. Perumal**. 2019. Culture of different live fish food organisms. In: Feed and Nutrition in Finfish and Shellfish Aquaculture (Ed. A.S. Ninawe and S.T. Indulkar), Narendra Publishing House, New Delhi. . (ISBN: 978-93-89235-142) pp. 333-365.
2. **Perumal, P.**, P. Santhanam, A. Begum and B. Balaji Prasath. 2019. An introduction to plankton. In: Basic and Applied Phytoplankton Biology. (Eds. P. Santhanam et.al.) Springer Pub., (ISBN 978-981-10-7937-5), 1-24pp.
3. Santhanam, P., **P. Perumal** and A. Begum, 2019. Methods of Collection, Preservation and Taxonomic Identification of Marine Phytoplankton. In: Basic and Applied Phytoplankton Biology (Eds. P. Santhanam et.al.), Springer Pub., (ISBN 978-981-10-7937-5), 25-61pp.
4. Jeyapandi, S., C. Rajthilak, P. Santhanam, A. Begum, S. Ravikumar, **P. Perumal** and S. U. Ahmed, 2019. Study on molecular taxonomy and phylogenetic analysis of phytoplankton. In: Basic and Applied Phytoplankton Biology (Eds P. Santhanam et.al.), Springer Pub., (ISBN 978-981-10-7937-5), 63-76pp.
5. Begum, A., S. U. Ahmed, S. Dinesh Kumar, M. Divya, P. Santhanam and **P. Perumal**, 2019. Mass scale culture and preparation of microalgal paste. In: Basic and Applied Phytoplankton Biology (Eds. P. Santhanam et al.), Springer Pub., (ISBN 978-981-10-7937-5), 285-302pp.
6. Premkumar, C., M. Divya, N. Krishnaveni, P. Santhanam, and **P. Perumal**, 2019. An estimation of antimicrobial and antioxidant activity of microalgae. In: Basic and Applied Phytoplankton Biology. (Eds P. Santhanam et al.), Springer Pub., (ISBN 978-981-10-7937-5), 303-314pp.
7. Santhanam, P., **P. Perumal** and A. Begum, 2019. A method of collection, preservation and identification of marine zooplankton. In: Basic and Applied Zooplankton Biology. (Eds P. Santhanam et al.), Springer Pub., (ISBN 978-981-10-7952-8), 1-44pp.
8. Rajthilak, C., P. Santhanam, **P. Perumal**, T. Veeramani and S. Ravikumar, 2019. DNA barcoding of copepods. In: Basic and Applied Zooplankton Biology. (Eds P. Santhanam et.al.) Springer Pub., (ISBN 978-981-10-7952-8), 87-126pp.
9. Santhanam, P., N. Jeyaraj, K. Jothiraj, S. Ananth, S. Dinesh Kumar and **P. Perumal**, 2019. Evaluation of suitability of marine copepods as an alternative live feed in high health fish larval production. In: Basic and Applied Zooplankton Biology. (Eds P. Santhanam et al.), Springer Pub., (ISBN 978-981-10-7952-8), 277-292pp.
10. Santhanam, P., N. Jeyaraj, K. Jothiraj, S. Ananth, S. Dinesh Kumar and **P. Perumal**, 2019. Assessing the efficacy of marine copepods as an alternative first feed for diseases resistant shrimp larval production. In: Basic and Applied Zooplankton Biology (Eds P. Santhanam et al.). Springer Pub., (ISBN 978-981-10-7952-8), 293-304pp.

11. Santhanam, P., S. Ananth, S. Dinesh Kumar and **P. Perumal**, 2019. Biofloc-Copefloc: A novel technology towards the sustainable shrimp production. In: Basic and Applied Zooplankton Biology. (Eds P. Santhanam et al.,) Springer Pub., (ISBN 978-981-10-7952-8), 305-314pp.
12. Kaviyarasan, M., S. Ananth, P. Santhanam and **P. Perumal**, 2019. A method of analysis of pigments in copepods. In: Basic and Applied Zooplankton Biology. (Eds P. Santhanam et al.,) Springer Pub., (ISBN 978-981-10-7952-8), 363-366pp.
13. Santhanam, P., P. Raju, S. Ananth, C. Rajthilak, S. Jeyapandi, T. Jayalakshmi, M. Kaviyarasan, N. Manickam, S. Gunabal, S. Dinesh Kumar and **P. Perumal**, 2018. In: Morphological and molecular characterization of some common marine planktonic copepods. International Workshop Manual on Modern Techniques for Molecular and Morphological Characterizations of Crustaceans. ISBN 978-81-925094-4-0. 71-100 pp.
14. Santhanam, P., **P. Perumal** and A. R. Thirunavukkarasu, 2018. Introduction to Marine Copepods. In: Training Manual on Taxonomic Identification of Coastal and Oceanic Copepods (Ed. P. Santhanam), (ISBN: 978-93-87354-17-3), Jami Publ., Trichy-23.7-9pp.
15. Santhanam, P., **P. Perumal**, & A.R. Thirunavukkarasu, 2018. Introduction to marine copepods. In: Taxonomic identification of coastal and oceanic copepods, Training Manual (Ed. P. Santhanam) MOEF & CC, GOI & Bharathidasan University, PP. 1-4. (p-70)
16. Deepak. P., V. Amutha, C. Kamaraj, G. Balasubramani, D. Aiswarya & **P. Perumal**, 2016. Chemical and green synthesis of nanoparticles and their efficacy on cancer cells. In: Green Synthesis, Characterization and Applications of Nanoparticles. (Ed. Dr. Siavash Iravani). Publisher-Elsevier. pp. 369-382
17. Santhanam, P., S. Ananth., R. Nandakumar., T. Jayalakshmi., M. Kaviyarasan & **P. Perumal**, 2015. Intensive indoor and outdoor pilot scale culture of marine copepods. In: Advances in Marine and Brackishwater Aquaculture. (Eds P. Santhanam et al.) Springer Pub., (ISBN: 978-81-3222270-5), pp 33-42.
18. **Perumal, P.**, B. Balaji Prasath., P. Santhanam., A. Shenbaga Devi., S. Dineshkumar & S. Jeyanthi., 2015. Isolation and intensive culture of marine microalgae. In: Advances in Marine and Brackishwater Aquaculture. (Eds P. Santhanam et al.) Springer Pub., (ISBN: 978-81-3222270-5), pp 1-15.
19. Raja, M., M. Kavitha, R. Ramkumar, & **P. Perumal**, 2015. Molecular phylogenetic analysis of selected species of the genus *Devario* (Cyprinidae: Danioninae) based on mitochondrial cytochrome oxidase subunit I. In: Advances in Biotechnology and Patenting (Eds. S. Sivaramakrishnan et al.) Publisher-Elsevier. pp. 155-166.
20. Aiswarya, D., V. Balasubramanian, M. Raja, **P. Perumal**, S. Sivaramakrishnan & R. Karthik Raja, 2015. Entomopathogenic Nematodes for the control of insect pests. In: Advances in Biotechnology and Patenting. (Eds. S. Sivaramakrishnan et al.) Publisher-Elsevier. pp. 49-55.
21. **Perumal, P.**, B. Balaji Prasath, P. Santhanam, S. Ananth, A. Shenbaga Devi, S. Dinesh Kumar & S. Jeyanthi, 2015. Isolation and Culture of Microalgae. In: Advances in Marine and Brackishwater Aquaculture (Eds. P. Santhanam *et al.*) Springer Publishers, the Netherlands. pp:1-15.

22. Santhanam, P., S. Ananth, R. Nandakumar, T. Jayalakshmi, M. Kaviyarasan & **P. Perumal**, 2015. Intensive indoor and outdoor pilot-scale culture of Marine copepods. In: *Advances in Marine and Brackishwater Aquaculture* (Eds. P. Santhanam *et al.*) Springer Publishers, the Netherlands. pp:33-42.
23. **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, (Ed. R. Neelakandan, Salem), pp.64-66.
24. **Perumal, P.** & 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.
25. 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, (Ed. R. Neelakandan, Salem), pp.55 -61.
26. **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.
27. **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.
28. **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.
29. **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**. In: **Proc. of ICHO VI, Quingdao, China, 1998**, pp. 423-426, **UNESCO, Paris**, and **China Ocean Press, Beijing**. (Eds. Selim Marcos & Gary Wright). P.507.
30. **Perumal, P.**, 2003. “**Coastal Biodiversity-Earth Summit, Agenda-21&UN-CSD**”, unit-3, paper-3, PG-Dipl. *Mar. Envir. Pollution & Management* (DDE-Lesson), Annamaai University Press, Annamalai Nagar, pp. 43-59.
31. **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.
32. Sampath Kumar, P. & **P. Perumal.**, 2002. “Manual on identification of phytoplankton”, All India Coordinated Project on Survey & Inventorization of Coastal & Marine Biodiversity, MoEn & F (Govt. of India), CAS in Marine Biology, Annamalai University Press,,pp.56.
33. **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). CAS in Marine Biology, Annamalai University Press. pp.53.

34. Balasubramaniyan, K. & **P. Perumal**, 2000. Zooplankton in the 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.
35. **Perumal, P.**, P. Sampath Kumar & P. Santhanam, 1998. Zooplankton of Parangipettai coastal waters. Monograph Series, Vol. I. UGC-SAP, CAS in Marine Biology, Annamalai University, 31 pp.
36. **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.
37. **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.

Publications in SCI/UGC-CARE Listed Journals: (1989-2020): 89

International: 63.

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Gene Sequence Submitted to NCBI: 123.

S. No.	Organism Name	Accession Number	Year of Submission
1.	<i>Corycaeus danae</i>	HM560588	2010
2.	<i>Pareucalanus attenuates</i>	HM004515.1	2010
3.	<i>Pareucalanus attenuates</i>	HM153083.1	2010
4.	<i>Labidocera acuta</i>	JQ280463.1	2012
5.	<i>Pseudomonas aeruginosa</i>	JX010738	2012
6.	<i>Pseudomonas aeruginosa</i>	JX010739	2012
7.	<i>Nitocra velar</i> sp. Nov.	JX438707	2012
8.	<i>Pseudodiaptomus annandalei</i>	JX984662	2012
9.	<i>Pseudodiaptomus aurivilli</i>	JX984663	2012
10.	<i>Providencia vermicola</i>	KF155518.1	2013
11.	<i>Enterobacter</i> sp.	KF155519.1	2013
12.	<i>Providencia stuartii</i>	KF155520.1	2013
13.	<i>Acartia tonsa</i>	KP222806	2014
14.	<i>Acrocalanus gibber</i>	KP222807	2014
15.	<i>Labidocera</i> sp.	KP259618	2014
16.	<i>Pontella</i> sp.	KP259619	2014
17.	<i>Pontella</i> sp.	KP259620	2014
18.	<i>Bacillus substilis</i>	KP340123	2015
19.	<i>Bacillus flexus</i>	KP340124	2015
20.	<i>Pontella</i> sp.	KP406758	2015
21.	<i>Pseudodiaptomus serricadatus</i>	KP406759	2015
22.	<i>Pseudodiaptomus annandalei</i>	KP406760	2015
23.	<i>Labidocera pectinata</i>	KP812148	2015
24.	<i>Labidocera acuta</i>	KP812149	2015
25.	<i>Pontella fera</i>	KP812150	2015
26.	<i>Pseudodiaptomus aurivelli</i>	KP812151	2015
27.	<i>Pseudodiaptomus aurivelli</i>	KP812152	2015
28.	<i>Steinernema siamkayai</i>	KR054740	2015
29.	<i>Heterorhabditis indica</i>	KR054741	2015
30.	<i>Xenorhabdus stockiae</i>	KR054739	2015
31.	<i>Photorhabdus luminescens</i>	KR024037	2015
32.	<i>Pseudomonas otitidis</i>	KX198011	2016
33.	<i>Dawkinsia filamentosus</i>	KX230844	2016
34.	<i>Barilius gatensis</i>	KX230845	2016
35.	<i>Barilius bendelisis</i>	KX230846	2016
36.	<i>Barilius bakeri</i>	KX230847	2016
37.	<i>Barilius canarensis</i>	KX230848	2016
38.	<i>Garra mullaya</i>	KX230890	2016
39.	<i>Glossobius giuris</i>	KX230891	2016

40.	<i>Gonoproktopterus carnaticus</i>	KX230892	2016
41.	<i>Ompok bimaculatus</i>	KX230893	2016
42.	<i>Rasbora daniconius</i>	KX230894	2016
43.	<i>Garra mccllellandi</i>	KX230895	2016
44.	<i>Dawkinsia arulius</i>	KX230896	2016
45.	<i>Osteochilus thomassi</i>	KX230897	2016
46.	<i>Osteochilus nashii</i>	KX239498	2016
47.	<i>Systomus sarana</i>	KX239499	2016
48.	<i>Hypselobarbus thomassi</i>	KX266812	2016
49.	<i>Hypselobarbus micropogon</i>	KX266813	2016
50.	<i>Hypselobarbus periyarensis</i>	KX266814	2016
51.	<i>Hypselobarbus lithopidos</i>	KX266815	2016
52.	<i>Hypselobarbus jerdoni</i>	KX266816	2016
53.	<i>Esomus danricus</i>	KX266817	2016
54.	<i>Hypselobarbus kolus</i>	KX266818	2016
55.	<i>Hypselobarbus curmuca</i>	KX266819	2016
56.	<i>Hypselobarbus kurali</i>	KX266820	2016
57.	<i>Danio rerio</i>	KX266821	2016
58.	<i>Danio rerio</i>	KX266822	2016
59.	<i>Salmophasia bacaila</i>	KX266823	2016
60.	<i>Lepidocephalichthys guntea</i>	KX266824	2016
61.	<i>Lepidocephalichthys thermalis</i>	KX266825	2016
62.	<i>Esomus danricus</i>	KX266826	2016
63.	<i>Amblypharyngodon mola</i>	KX266827	2016
64.	<i>Neolissochilus hexagonolepis</i>	KX266828	2016
65.	<i>Nandus nandus</i>	KX266833	2016
66.	<i>Mystus bleekeri</i>	KX266834	2016
67.	<i>Labeo rohita</i>	KX266835	2016
68.	<i>Puntius sophore</i>	KX289308	2016
69.	<i>Garra bicornuta</i>	KX289309	2016
70.	<i>Puntius narayani</i>	KX289310	2016
71.	<i>Bhavanaia australis</i>	KX289311	2016
72.	<i>Mesonoemacheilus guentheri</i>	KX289312	2016
73.	<i>Devario aequipinnatus</i>	KX289313	2016
74.	<i>Labeo bata</i>	KX289314	2016
75.	<i>Glyptothorax gracilis</i>	KX289315	2016
76.	<i>Pseudomonas abietaniphila</i>	KX447681.1	2016
77.	<i>Devario malabaricus</i>	KX529835	2016
78.	<i>Puntius amphibius</i>	KX529836	2016
79.	<i>Puntius fasciatus</i>	KX550002	2016
80.	<i>Tor khudree</i>	KX550003	2016
81.	<i>Osteobrama cotio</i>	KX550004	2016
82.	<i>Botia striata</i>	KX575850	2016
83.	<i>Mastacembelus aramatus</i>	KX575851	2016
84.	<i>Acinetobacter junii</i>	KX756708	2016

85.	<i>Acinetobacter sp.</i>	KX775221	2016
86.	<i>Acinetobacter tandoii</i>	KX775222	2016
87.	<i>Aeromonas hydrophila</i>	KX756709	2016
88.	<i>Aeromonas veronii</i>	KX688046	2016
89.	<i>Pseudomonas stutzeri</i>	KX721473	2016
90.	<i>Bacillus subtilis</i>	KX756706	2016
91.	<i>Bacillus cereus</i>	KX756707	2016
92.	<i>Bacillus amyloliquefaciens</i>	KX775224	2016
93.	<i>Staphylococcus equorum</i>	KX775223	2016
94.	<i>Apocyclops sp.</i>	ID 2033919	2017
95.	<i>Bacillus subtilis</i>	17F540529	2017
96.	<i>Acidovorax sp.</i>	MF581272.1	2017
97.	<i>Lysinibacillus sphaericus</i>	MF800950.1	2017
98.	<i>Bacillus sp.</i>	MG018623.1	2017
99.	<i>Bacillus subtilis</i>	MF540529.1	2017
100.	<i>Bacillus thuringiensis</i>	MF614759.1	2017
101.	<i>Aeromonas ruangheii</i>	MF800749	2017
102.	<i>Aeromonas hydrophila</i>	MG017447.1	2017
103.	<i>Bacillus tequilensis</i>	MG017498.1	2017
104.	<i>Aeromonas jandaei</i>	MF962881	2017
105.	<i>Aeromonas veronii</i>	MF801303	2017
106.	<i>Kurthia gibsonii</i>	MF580585	2017
107.	<i>Exiguobacterium aurantiacum</i>	MH512933	2018
108.	<i>Bacillus subtilis</i>	MH512934	2018
109.	<i>Aeromonas veronii</i>	MH512935	2018
110.	<i>Vibrio alginolyticus</i>	MH512936	2018
111.	<i>Aeromonas veronii</i>	MH729055	2018
112.	<i>Bacillus nealsonii</i>	MH729056	2018
113.	<i>Steinernema siamkayai</i>	MK210427	2018
114.	<i>Heterorhabditis indica</i>	MK210199	2018
115.	<i>Steinernema siamkayai</i>	MK210232	2018
116.	<i>Heterorhabditis indica</i>	MK210560	2018
117.	<i>Steinernema siamkayai</i>	MK210237	2018
118.	<i>Heterorhabditis indica</i>	MK211144	2018
119.	<i>Heterorhabditis indica</i>	MK210634	2018
120.	<i>Steinernema siamkayai</i>	MK210283	2018
121.	<i>Steinernema siamkayai</i>	KY940074	2018
122.	<i>Steinernema siamkayai</i>	MK210607	2018
123.	<i>Steinernema siamkayai</i>	MK210627	2018