

Capt. Dr. N.THIRUNAVUKKARASU. Ph.D.,
Assistant Professor (Senior Grade) & Associate NCC Officer
 Department of Advanced Zoology and Biotechnology
 Dr.Ambedkar Government Arts College (Autonomous)
 Vyadarpadi, Chennai-600 039.
 E.mail: marinethiru@gmail.com
 Contact: +91 94438 79896 / 79046 11892



Personal Details

Name: Dr.N.Thirunavukkarasu

Designation: Assistant Professor (Senior Grade)

Academic Qualification: M.Sc., M.Phil., Ph.D (NET)

Teaching Experience: PG: 17 years & UG: 20 years

Area of Specialization: Marine Biology, Fisheries and Aquaculture

Research Supervisor: Recognized Research Supervisor in Zoology

Guiding Ph.D Scholars

- Guiding No. of Scholars - 4
- Completed Nos. - 5

Guiding M.Sc., Projects - Nil

Research Activities

Reviewer of International Journals

1. Indian Journal of Geo-Marine Science
2. Journal of Coastal Conservation
3. Biotropica

Advisory Editorial Board - Nil

Major / Minor Research Projects:

S. No	Project title	Funding Agency	Total Cost	Period	Place of Work	Status
1	Assessment of the Conservation Value of Wetland Birds on the Pallikaranai Marsh, Chennai	Tamil Nadu State Council for Higher Education	Rs.1,00,000	2021	Chennai	Completed
2	Investigation on the Socio-economic condition of the fishermen community	TamilNadu State Council for Science &	Rs.4,00,000	2018-2019	Pulicat Lake Villages	Completed

	around the villages of Pulicat Lake, Tamilnadu	Technology				
3	Production and characterization of under-utilised marine bycatch trash	University Grants Commission	Rs.4,95,000	2015 - 2016	Chennai	Completed
4	An Evaluation of comparative study of biodiversity and conservation of three hotspots of Asia (As Co-Investigator)	UBCHEA Hong Kong	US\$ 34,000	July, 2009 to June 2012 (3 years)	Madras Christian College With foreign Universities at Philippines & Indonesia	Completed
5	Biosorption of arsenic with acid washed crab shells <i>Portunus pelagicus</i>	TamilNadu State Council for Science & Technology	Rs.6000	2011	Chennai	Completed

Training / Workshop Conducted:

S. No.	Title	Funding Agency Name	Total Cost
1	Hands on Training on Enhancing employment and entrepreneurship through hands on training on value added fishery products from 17 th to 19 th August, 2017	Tamil Nadu State Council for Science & Technology (2015 – 2016 Grant)	Rs.50,000
2	Hands on Training on Enhancing employment and entrepreneurship through hands on training on value added fishery products from 24 th to 26 th October, 2017	Tamil Nadu State Council for Science & Technology (2016-2017 Grant)	Rs.50,000
3	Hands on Training on Commercialization and popularization of Minor Millets	Tamil Nadu State Council for Science & Technology	Rs.50,000
4	Popularization of Science (Eco Science Expo 2019 – Interschool Exhibition for Schools of Thiruvalluvar & Chennai Districts)	Tamil Nadu State Council for Science & Technology Indian Science Congress Association (ISCA), Chennai Chapter	Rs.20,000 Rs.25,000

National Conference / Symposium / Seminar Organized:

S.No	Event	Sponsored Agency	Amount (Rs.)
1	National Conference on Wetland Birds - Diversity, Threats and Conservation	Tamil Nadu State Council for Higher Education, Chennai	20,000
2	National Awareness Conference on "Values of Biodiversity and its Conservation" from 7 th to 8 th March, 2019.	1. National Biodiversity Authority (Ministry of Environment, Forest and Climate Change) 2. Tamil Nadu State Council of Science and Technology, Chennai 3. University Grants Commission	85,000 20,000 6,000
3	International Web Conference on "Innovative Technologies, Entrepreneurship Avenues and Livelihood Enhancement in Sustainable Management of Animal Farming" from 3 rd to 4 th August 2020.	Indian Science Congress Association (ISCA)	20,000
4	National Symposium on "Current Trends in Marine Science and Technology" (CUTMAST '09) from 22 nd to 24 th January, 2009 at Madras Christian College, Chennai.	1. Department of Ocean Development, Ministry of Earth Sciences, New Delhi. 2. Department of Biotechnology, New Delhi 3. University Grants Commission	40,000 30,000 30,000
5	State Level Seminar cum Workshop on "W for Water (Resources, Crisis, Conservation and Sustainability) on February, 2020	Dr. Ambedkar Government Arts College, Chennai.	-
6	"National Capacity Building Training on Marine Biodiversity and its Conservation" from 29 th to 31 st July, 2020.	Dr. Ambedkar Government Arts College, Chennai.	-

7	"National Faculty Enrichment Programme on Digital Technology for the Teaching of Life Sciences and Humanities" from 21 st to 25 th July, 2020.	Dr.Ambedkar Government Arts College, Chennai.	-
8	"International Virtual Skill Development Programme on "Emerging Advancements and Technologies in the field of Life Sciences Teaching and Research" from 8 th to 10 th July, 2020.	Dr.Ambedkar Government Arts College, Chennai.	-
9	"National Conference on Prevention and Management of Non-Communicable Diseases and Screening for Pre-Diabetes" from 11 th to 12 th December 2019 (Co-Organizer)	Dr.Ambedkar Government Arts College, Chennai.	-
10	Intercollegiate competition ABYSS'08 on 12 th March 2008.	Madras Christian College, Chennai.	-

Patent: Nil

Membership in Professional Bodies:

Indian Science Congress Association

Author for Books:

1. **N.Thirunavukkarasu**. 2016. Biotechnological approaches in Fisheries and Aquaculture. (Book: Aquaculture Development in India - ISBN: 978-5267-5265) p.65-79.
2. **N.Thirunavukkarasu** and R.Sumithraa. 2017. Impacts of environmental pollution on health and social lives of the fishermen community of Pulicat, Tamil Nadu. (Book: Health, Environment and Society - ISBN: 978-93-88316-23-1) p.135-144.
3. **N.Thirunavukkarasu** and R.Sumithraa. 2020. Socio-economics profile, environmental and climate change impacts of fishermen community at Pulicat Lake. (Book: Impact of Climate change on hydrological Cycle, Ecosystem, Fisheries and Food Security. Narendra Publishing House, Delhi. ISBN: 978-939030-011-5).

Resource Person:

1. **Value Addition in Crabs** – Mud Crab Fattening in Cages for the fisherfolk at Pulicat organized by Department of Zoology, Madras Christian College, Chennai (Sponsored by National Fisheries Development Board, Hyderabad) on 27th April 2022.
2. **Urban Aquaponics** – One Day Awareness Campaign and Workshop on Urban Aquaponics organized by Department of Zoology, Madras Christian College, Chennai (Sponsored by National Fisheries Development Board, Hyderabad) on 29th April 2022.

3. **Climate Change Challenges on Marine and Coastal Ecosystems** - International Online Seminar on Optimum Health and Safety Environment organized by Vivekananda College, Agasteeswaram, Kanyakumari on 7th October 2021.
4. Online Virtual Lecture on **“Drug Abuse & Illicit Trafficking”** organized by SIVET College, Chennai on 27.9.2021.
5. **Consequences of Coastal Pollution on Birds** - National Clean Beach Week organized by The Centre for Climate Change Studies, Sathyabama Institute of Science and Technology, Chennai on 6th July 2021.
6. **Coastal Vulnerability and Resilience of Fishermen Community at Pulicat Due to COVID19** organized by National Institute of Disaster Management, New Delhi and The Centre for Climate Change Studies, Sathyabama Institute of Science and Technology, Chennai on 25th to 27th August 2021.
7. **Marine Biodiversity in India and its Challenges** organized by AMET University on 22nd May 2021.
8. **Techno-Advancements in Climate Change in Marine Sciences** – A Key to Sustainability and Conservation at Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College from 1st to 6th June 2020.
9. **Biodiversity and Taxonomy of Crustaceans** - Five Days Faculty Development Programme on “Insights into Marine Biodiversity and Taxonomy” organized by The Centre for Climate Change Studies, Sathyabama Institute of Science and Technology, Chennai from 10th to 14th August, 2020.
10. **Marine Biodiversity and Conservation – An Indian Context** at DGV College, Chennai on 20th December 2021.
11. **Challenges, Scope and Opportunities in Zoology** held at Kandaswami Kandar’s College, Velur, Namakkal on 17th February 2017.
12. **Seafood Microbiology and its Industrial Application** organized by Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai on 14th May 2015.
13. **Studies on the heavy metals in Ennore Estuary** - National Seminar on IMO 60th Year of Excellence, organized by AMET University, Chennai held on 28th August 2008.
14. **Current Status of biodiversity and threats in Pulicat Lake**. Workshop on Coastal Biodiversity Restoration at Estuarine Biological Laboratory, Pulicat on 9th to 11th December 2009.
15. **Role of Non-governmental organizations in Pulicat**. Workshop on Coastal Biodiversity Restoration at Estuarine Biological Laboratory, Pulicat on 9th to 11th December 2009.
16. **Biodiversity and Conservation of Marine and Coastal Ecosystems in India** at Scrub Society, Madras Christian College, Chennai on 15th October 2010.
17. **Biodiversity and conservation of Pulicat Lake**. Workshop on Coastal Biodiversity Restoration at Estuarine Biological Laboratory, Pulicat on 1st to 5th September 2010.

18. **Ornamental Fish Culture** – Hands on Training for Self Help Groups, Sponsored by Ministry of Human Resource Development conducted by Sathyabama University on 7th November 2013.

19. **Marine Biodiversity and Conservation – An Indian Context** at National Level Conference on “Advances in Marine Bioscience & Technology: Current Status, Prospects & Challenges” conducted by AMET University on 14th March 2014.

20. National Level Seminar on **Prospects of Marine Biotechnology** for Industry and Stakeholders held at AMET University, Chennai on 28th February 2013.

Academic Auditor - Nil

Board of Studies:

1. Government Arts College for Men (Autonomous), Nandanam, Chennai.
2. Madras Christian College (Autonomous), Tambaram, Chennai.
3. Tamilnadu Open University, Chennai.
4. Jamal Mohamed College, Trichy.

Doctoral Committee Member:

1. Government Arts College for Men (Autonomous), Nandanam, Chennai.
2. AMET University, Chennai.
3. Sir Theagaraya College, Chennai.

Viva Voce Examiner:

1. Annamalai University, Chennai.
2. Sathyabama University, Chennai.

Publications: (Google Scholar Citations - 251, h index – 9, i10 index -9)

International / National Journals: (Scopus / Web of Science / UGC – CARE Listed)

International:

1. **Thirunavukkarsu. N** and C. Sheeba Anitha Nesakumari. 2022. An assessment of the conservation value of wetland birds on the Pallikaranai marsh, Chennai, Tamil Nadu, India. *Int. J. Zoological Investigations*. 8 (2): 117-129 (ISSN: 2454 – 3055) (**Web of Science**).
2. Surya.D, Ann Efgin, **N.Thirunavukkarasu** and C.Sheeba Anitha Nesakumari. 2022. Isolation and characterization of micro and mesoplastics isolated from commercially important marine fishes of Pulicat Lake, Tamil Nadu. *Int. J. Zoological Investigations*. 8(1): 401 - 407 (ISSN: 2454 – 3055) (**Web of Science**).
3. Vijayananth.S, C,Sheeba Anitha Nesakumari, R.Muthezhilan and **N.Thirunavukkarasu**. 2022. Isolation and biochemical characterization of lactic acid bacteria from the gut of fresh food fishes. *Int. J. Zoological Investigations*. 8(1): 272 – 280 (ISSN: 2454 – 3055) (**Web of Science**).
4. Sumithraa. R, A.Vinoth and **N.Thirunavukkarasu**. 2022. Quality Assessment of Physico-Chemical Parameters in Drinking Water at Pulicat Lake Fishermen Villages. *Intl. J. Ecology, Environment and Conservation*. 28(1): 422 - 427 (ISSN: 0971-765X)

(Scopus).

5. Sheeba Anitha Nesakumari. C, J. Sesh Serebiah and **N. Thirunavukkarasu**. 2022. Pollution Indicator Potential of Amphipods from Pulicat Lake, Tamil Nadu, South East Coast of India. *Intl. J. Ecology, Environment and Conservation*. 28(1): 410 – 415 (ISSN: 0971-765X) (**Scopus**).
6. Sruthi H and **N.Thirunavukkarasu**. 2022. Annotated Checklist of Freshwater Crabs of Tamil Nadu, India. *Intl. J. Ecology, Environment and Conservation*. 28(1): 459 - 463 (ISSN: 0971-765X) (**Scopus**).
7. Sruthi, H and **Thirunavukkarasu, N**. 2021. Crustacean Taxonomy- A solution for conserving its biodiversity in India. *Uttar Pradesh Journal of Zoology*. **42(1)**: 6-11 (ISSN: 0256-971X) (**Web of Science**) (NAAS – 4.21)
8. Logamanya Tilak. J, C. Sheeba Anitha Nesakumari, **N.Thirunavukkarasu** and R.W.Alexander Jesudasan. 2016. Synergizing traditional knowledge and sustainable local practices for enhancing coastal resource education and management – an Indian scenario. *Silliman Journal*. 57(2): 121 – 137 (ISSN: 0037 – 5284) (**Web of Science**).
9. Kiruba. D and **N.Thirunavukkarasu**. 2017. Effect of leaf extract of *Andrographis paniculata* against cotton pest spotted bollworm *Earias vittella*. *Intl. J.Entomology. Research*. 67-70 (ISSN: 2455-4758) RJIF: 5.24 (**Web of Science**).
10. Kannan. N, **N.Thirunavukkarasu**, A.Suresh and K.Rajagopal. 2016. Analysis of heavy metal accumulation in mangroves and associate mangrove species in Ennore mangrove ecosystem, East coast of India. *Indian.J.Sci & Tech*. 9 (46) DOI:10.17485/ijst/2016/v9i46/101551, December 2016 (ISSN: 0974 – 5645) (**Web of Science**).
11. **Thirunavukkarasu. N**, C.Sheeba Anitha Nesakumari and A.Shanmugam. 2014. Reproductive potential of mud crab *Scylla tranquebarica* (Fabricius, 1798). *J.Fish.Soc.Taiwan*. 41(1): 27-34 (ISSN: 0379 – 4180) (**Web of Science**).
12. Madhu Magesh. K, **N.Thirunavukkarasu** and R.Moses Inbaraj. 2014. Nutritional evaluation of salt marsh plants in Pulicat lake. *Intl. J. Ecology, Environment & Conservation*. **20**:133-137 (ISSN: 0971-765) NAAS -4.8, **Web of Science, Scopus H index -12**.
13. Ramalingam. V, **N.Thirunavukkarasu**, Nissy Chandy and R.Rajaram. 2014. Proximate composition of trash fishes and their utilization as organic amendment for plant growth. *J.Mar.Biol.Ass.India*. doi:10.6024/jmbai.2014.56.1.01780A-0x (ISSN: 0025-3146) (**Web of Science**).
14. **Thirunavukkarasu. N**, S.Gokulakrishnan, P.V.R.Premjothi and R.Moses Inbaraj. 2011. Need of coastal resource Management in Pulicat Lake – Challenges ahead. *Ind.J.Sci & Tech*. **4(3)**:322-326 (ISSN: 0974-6846) (**Web of Science**) (NAAS – 4.28)
15. **Thirunavukkarasu. N** and A.Shanmugam. 2010. Length-weight and width-weight relationships of mud crab *Scylla tranquebarica* (Fabricius, 1798). *J.Mar.Biol.Ass.India*. **53(1)**:142-144 (ISSN: 0025-3146) (**Web of Science**).
16. Kariketi. S. Soumyalatha, C. Sheeba Anitha Nesakumari and **N.Thirunavukkarasu**. 2021. Feed Preference of Wetland Birds of Attakanthippa, Nelapattu Bird Sanctuary,

Andhra Pradesh. *Journal of Maharaja Sayajirao University of Baroda*. **55 (1(VI))**: 1073-1081 (**UGC - CARE**).

17. Reka. E, T. Kumaran and **N. Thirunavukkarasu**. 2021. Studies on fishery resources, fishing off season and socio-economic status of fishermen community at Kasimedu, Royapuram, Chennai. *Journal of Maharaja Sayajirao University of Baroda*. **55 (1(VI))**: 950-967 (**UGC - CARE**).
18. Sumithraa. R, A.Vinoth and **N.Thirunavukkarasu**. 2021. Present status of socio-economic conditions of the fishermen villages of Pulicat lake, South East coast of India. *Journal of Maharaja Sayajirao University of Baroda*. **55 (1(VI))**: 600-609 (**UGC - CARE**).
19. Sheeba Anitha Nesakumari. C, C. Joyce Priyakumari and **N. Thirunavukkarasu**.2021. An assessment of post- harvest fish losses and preservation practices in fishermen villages of Pulicat, Tamilnadu – a case study. *Journal of Maharaja Sayajirao University of Baroda*. **55 (1(VI))**: 590 - 599 (**UGC - CARE**).
20. Sheeba Anitha Nesakumari. C, J. Sesh Serebiah and **N. Thirunavukkarasu**. 2021. Hydrobiology of different ecosystems of Pulicat lake, South East coast of India. *Journal of Maharaja Sayajirao University of Baroda*. **55 (1(VI))**: 539-566 (**UGC - CARE**).
21. Mathumitha. C, V.Mohanraj and **Thirunavukkarasu. N**. 2021. Extraction of chitin and chitosan from the exoskeleton of lobster *Scyllarus martensii*. *Journal of Maharaja Sayajirao University of Baroda*. **55 (1(VI))**: 527 - 538 (**UGC - CARE**).
22. **Thirunavukkarasu. N**, C.Sheeba Anitha Nesakumari and A.Shanmugam. 2014. Larval rearing and seed production of mud crab *Scylla tranquebarica* (Fabricius, 1798). *Intl J. Fisheries & Aquatic Studies*. **2(2)**:19-25 (ISSN: 2347-5129). RJIF: 5.69 (**UGC-CARE**)

Other Research Publications

1. Sumithraa. R, T. Vijaykumar, C. Sheeba Anitha Nesakumari, R. Muthezhilan and **N. Thirunavukkarasu**. 2021. Production and characterization of glucosamine hydrochloride from crustacean shell wastes. *Int. J. of Ecology and Environmental Sciences*. **3(2)**: 266-270 (ISSN: 2664-7133) RJIF - 5.28
2. Vijayananth. S, B. Venkatarathanam, C. Sheeba Anitha Nesakumari, R. Muthezhilan, **Thirunavukkarasu. N**. 2021. An investigation on microbial quality of salted and Sun dried fishes from Pulicat lake fishermen villages. *Int. J. of Ecology and Environmental Sciences*. **3(3)**: 01-04 (ISSN: 2664-7133) RJIF - 5.28
3. Kannan. N and **N.Thirunavukkarasu**. 2017. Assessment of Heavy metal contamination in water, sediment and fishes tissue from Ennore ecosystem, South East coast of India. *Indian J. Applied Microbiology*. **20 (2)**: 101-108 (ISSN: 2249-8400) IP indexing – 2.28
4. Kannan. N and **N.Thirunavukkarasu**. 2017. Physico-Chemical parameters and phytoplankton diversity of Ennore mangrove ecosystem. *Res. J. Chem. and Environ. Sci*. **5(6)**: 62-72 (ISSN: 2321-1040) NAAS – 4.64
5. Indhu. B, S.Muthusami and **N.Thirunavukkarasu**. 2017. Study of Plankton diversity of Cauvery River from Jedarpalayam to Velur, Namakkal District. *Transactions of Engineering and Sciences*. **5(1)**: 28-30 (ISSN: 2347-1964).

6. Kannan. N and **N.Thirunavukkarasu**. 2016. Bioaccumulation of heavy metals in water, sediment and six commercial fishes of Ennore mangrove ecosystem, North Chennai, East Coast of India. *J.Environ.Curr.Life.Sci.* **1**:1-11(ISSN: 2320-8279).
7. **Thirunavukkarasu. N**, D.Adhavan and B.Gunalan. 2016. Studies on heavy metal pollution in Ennore estuary, South East coast of India. *Intl. J.Res. Bio. & Pharm. Res.* **2(1)**: 29-43 (ISSN: 2208-2093).
8. Vijayakumar. A, **N.Thirunavukkarasu**, K.Jayachandran and M.Susiladevi. 2016. Protective role of atropine on the histopathology of gill and liver in the fresh water fish *Labeo rohita* (Hamilton) exposed to Cypermethrin. *Intl.J.Modern Res & Reviews.* **4(2)**: 1098-1102 (ISSN: 2347 – 8314).
9. Vijayakumar. A, **N.Thirunavukkarasu**, K.Jayachandran and M.Susiladevi. 2016. Attenuating properties of Atropine against the Cypermethrin toxicity in the oxidative stress in the fresh water fish *Labeo rohita* (Hamilton). *Intl.J.Modern Res & Reviews.* **4(1)**: 1088-1093 (ISSN: 2347 – 8314).
10. **Thirunavukkarasu. N**, C.Sheeba Anitha Nesakumari and A.Shanmugam. 2014. Age and growth studies of mud crab *Scylla tranquebarica* (Fabricius, 1798). *AMET International Maritime Research Journal.* **3**:33-47.
11. Indhu. B, S.Muthusami and **N.Thirunavukkarasu**. 2014. Studies on microflora and their role on egg shell contamination and infection.. **4(3)**:518-521 (ISSN: 2249-9504) NAAS – 3.99, ICV Poland-76.37
12. Subramanian. R, C.Sheeba Anitha Nesakumari and **N.Thirunavukkarasu**. 2013. Status of water quality and heavy metal pollution from Coovum River, Tamilnadu, India. *Universal Journal of Environmental Research and Technology.* **3(4)**:483-489 (eISSN: 2249-0256)
13. **Thirunavukkarasu. N** and A.Shanmugam. 2009. Extraction of chitin and chitosan from mud crab *Scylla tranquebarica*. *Intl J App Bio Engg.* **3**: 31-33 (ISSN: 0973-9084).
14. **Thirunavukkarasu. N**, C.Sheeba Anitha Nesakumari and A.Shanmugam. 2015. Prospects of frozen crab meat export trade. *Wide Spectrum.* **3(6)**: 11-14 (ISSN: 2250-2815)
15. Sheeba Anitha Nesakumari C and **N.Thirunavukkarasu**. 2014. Food and feeding behaviour of mud crab *scylla tranquebarica* (Fabricius, 1798). *Ind.J.Vet & Ani.Sci.Res .* **43(3)**: 229-235. (ISSN: 2347- 2774) NAAS – 4.28
16. Sheeba Anitha Nesakumari. C, **N.Thirunavukkarasu** and J.Sesh Serebiah. 2014. Intertidal amphipods (Crustacea:Amphipoda) on seagrass ecosystem from Pulicat Lake, South East Coast of India. *J.Environ. Curr. Life.Sci.* **2**:6-12.
17. Sheeba Anitha Nesakumari. C, **N.Thirunavukkarasu** and A.Shanmugam. 2014. Allometric relationship of mud crab *Scylla tranquebarica* (Fabricius, 1798). *Wide Spectrum.* **2(10)**:5-10 (ISSN: 2250-2815).
18. Kiruba, D and **N.Thirunavukkarasu**. 2014. Evaluation of antibiotic resistance and anti-dandruff activities of lemon *Citrus limonum*. *Wide Spectrum.* **2(12)**:27-30 (ISSN: 2250-2815).

19. Ayyappan. K and **N.Thirunavukkarasu**. 2014. Studies on physico-chemical characteristics and nutrients in the Paravanar river of Cuddalore, South East Coast of India. *J.Environ.Curr Life Sci.* **2**:13-21.
20. **Thirunavukkarasu. N**, K.Dhinamala and R.Moses Inbaraj. 2011. Production of chitin from two marine stomatopods *Oratosquilla* spp (Crustacea). *J.Chem.Pharm.Res.* **3(1)**:353-359 (ISSN: 0975-7384)
21. Sambasivam. S, **N.Thirunavukkarasu**, K.Maheshkumar and A.Shanmugam. 2005. Nutritional evaluation of *Octopus rugosus*. *J.Aqua.biol.* **201**: 83-85 (ISSN: 0971-4235).
22. **Thirunavukkarasu. N** and N.Veerappan. 2004. Cercariae of trematodes from Vellar, Pitchavaram mangroves and Coleroon regions. *J.Aqua.biol.* **19(2)**: 111-112 (ISSN: 0971-4235).
23. **Thirunavukkarsu. N**, N.Ilavarasan, R.Mohan and G.Anbuganapathi. 2004. Haematological effects of medicinal plants in mice exposed to cigarette smoke. *J.Eco.biol.* **19(1)**: 59-65 (ISSN: 0970-9037-06-19-59).
24. Ilavarasan. N, **N.Thirunavukkarasu**, R.Mohan and G.Anbuganapathi. 2004. Biochemical effects of medicinal plants in mice cigarette smoke exposed mice. *J.Eco.biol.* **19(1)**: 45-50 (ISSN: 0970-9037-06-19-59).
25. Mohan. R, **N.Thirunavukkarasu** and N.Ilavarasan. 2004. Catfish farming with slaughterhouse chicken waste as a supplementary feed – A boon to aquaculturist. *J.Aqua.biol.* **19(2)**: 149-151 (ISSN: 0971-4235).
26. Anbuganapathi. G, G.Manimekalai, R.Mohan, J.Mohanasundaram and **N.Thirunavukkarasu**. 2003. Bacterial contamination of River Cauvery, Namakkal District – A case study. *J.Ecotoxicol. Environ. Monit.* **13(1)**: 41-45 (ISSN: 0971-0965-13-03-41).

International / National Proceedings:

International:

1. **Thirunavukkarasu.N**. 2018. Production of Chitosan and Glucosamine Hydrochloride from bycatch of stomatopod *Oratosquilla quenquedentata* and crab *Liagore rubromaculata*. International Conference on “Biodiversity – Strategies for Conservation and Sustainable Utilisation” at Ethiraj College for Women, Chennai during 1st to 2nd February, 2018 (ISBN: 81-90 0947-3-9).
2. **Thirunavukkarasu. N**, D.Alexander, S.Muthukumar, P.Vijayanand and C.Sheeba Anitha Nesakumari. 2016. Marine Crustacean bycatch resources and the production of chitin and chitosan from Royapuram Fish landing center, Chennai. Proc. XV AZRA International Conference “Recent Advances in Life Sciences” held at Ethiraj College for Women, Chennai on 11th to 13th February, 2016. p. 237-243 (ISBN: 81-90 0947-3-7)
3. **Thirunavukkarasu. N**, and A.Shanmugam. 2013. Nutritional Evaluation of mud crab *Scylla tranquebarica* (Fabricius, 1798). International-Seminar Workshop on Mud crab Aquaculture and Fisheries Management organized by Rajiv Gandhi centre for Aquaculture (RGCA) on 10th to 12th April 2013.pp.17-18.

4. **Thirunavukkarasu, N.**, A.Shanmugam and S.Ajmalkhan. 2013. Reproductive biology and size of mud crab found in Parangipettai waters. International-Seminar Workshop on Mudcrab Aquaculture and Fisheries Management organized by Rajiv Gandhi centre for Aquaculture (RGCA) on 10th to 12th April 2013.pp.47-48.

National:

1. **Thirunavukkarasu, N.** S.Vijayananth and P.Desingu. 2020. Development of mud crab culture technology and its economics profile. National Conference Proceedings: Recent Advances in Aquaculture organized by Department of Zoology, Sir Theagaraya College, Chennai from 6th to 7th February, 2020. p. 137-145 (ISBN: 978-93-90390-36-6)

2. **Thirunavukkarasu, N.** K.Maheshkumar and A.Shanmugam. 2020. Nutritional quality evaluation of mud crab *Scylla tranquebarica* (Fabricius, 1798). National Conference Proceedings: Recent Advances in Aquaculture organized by Department of Zoology, Sir Theagaraya College, Chennai from 6th to 7th February, 2020. p. 160-177 (ISBN: 978-93-90390-36-6)

3. Kannan. N and **N. Thirunavukkarasu.** 2020. Biodiversity status of Ennore mangrove ecosystem, East coast of India. Proc. National Awareness Conference on “Values of Biodiversity and its Conservation” organized by Dept. of Zoology, Dr.Ambedkar Government Arts College, Chennai from 7th to 8th March 2019. P.133 - 151.

4. Ayyappan. K and **N. Thirunavukkarasu.** 2020. Studies on physico-chemical characteristics and nutrients in the Paravanar River in Cuddalore, South East coast of India. Proc. National Awareness Conference on “Values of Biodiversity and its Conservation” organized by Dept. of Zoology, Dr.Ambedkar Government Arts College, Chennai from 7th to 8th March 2019. P.105 - 111.

5. Subramanian. R and **N. Thirunavukkarasu.** 2020. Bioaccumulation of heavy metals in shell fishes of three coastal districts of North Tamilnadu. Proc. National Awareness Conference on “Values of Biodiversity and its Conservation” organized by Dept. of Zoology, Dr.Ambedkar Government Arts College, Chennai from 7th to 8th March 2019. P.90 - 104.

6. Ayyappan. K and **N. Thirunavukkarasu.** 2020. Studies on aquatic biodiversity status of Paravanar River in Cuddalore, South East coast of India. Proc. National Awareness Conference on “Values of Biodiversity and its Conservation” organized by Dept. of Zoology, Dr.Ambedkar Government Arts College, Chennai from 7th to 8th March 2019. P.119 - 132.

7. **Thirunavukkarasu. N** and R.Mohan. 2011. Studies on heavy metal concentration in River Cauvery, Tamilnadu. Proceedings on National Seminar on Environmental Monitoring: Issues and Challenges held at Madras Christian College, Chennai. pp.103-108.

8. Monolisha. S and **N.Thirunavukkarasu.**2011. Biosorption of arsenic with acid washed crab shells *Portunus pelagicus*. Proceedings on Students Projects Scheme Seminar cum Exhibition by TNSCST. pp.75-77.

9. **Thirunavukkarasu. N,** R.Moses Inbaraj, V.Deepak Samuel and A.Shanmugam 2009. Mud crab Fisheries trade in India – Challenges and Opportunities. World Ocean Conference, International Symposium on Ocean Science, Technology and Policy held on 11th – 15th May, 2009 at Manado, Indonesia. p.11.

10. **Thirunavukkarasu .N**, A. William Charles, V. Deepak Samuel, Lita Sunder and R. Moses Inbaraj. 2008 – Loss of biodiversity and economy due to by-catch exploitation In: Proceedings of the National conference on Biotechnological Intervention for Conservation and Sustainable Utilization of Bioresources, Satyabama University, Chennai. pp. 13-18.
11. **Thirunavukkarasu. N**, D.Adhavan, V. Deepak Samuel, Lita Sunder and R. Moses Inbaraj. 2008. Studies on the heavy metals in Ennore Estuary. Proceedings on National Semianr on IMO 60th Year of Excellence, organized by AMET University, Chennai.
12. Deepak Samuel. V, R. Dinesh Kumar, Steve Derek Cleur, **N. Thirunavukkarasu**, Lita Sunder and R. Moses Inbaraj. 2008. Marine eels – The Gunk unknown! - In: Proceedings of the National conference on Biotechnological Intervention for Conservation and Sustainable Utilization of Bioresources, Sathyabama University, Chennai. pp. 18-21.
13. Lita sunder, P. David Raja, R. Moses Inbaraj, **N. Thirunavukkarasu** and V. Deepak Samuel 2008. Ennore Mangroves – A diverse ecosystem or a diverted ecosystem? - In: Proceedings of the National conference on Biotechnological Intervention for Conservation and Sustainable Utilization of Bioresources, Sathyabama University, Chennai. pp. 21-24.

Paper Presented in Conference / Workshop:

International:

1. **Thirunavukkarasu. N** and R.Sumithraa. 2020. Socio-Economics Profile, Environmental and Climate Change Impacts of Fishermen Community at Pulicat Lake. International Conference on “Impact of Climate Change on Hydrological Cycle, Ecosystem and Fisheries and Food Security” organized by Cochin University of Science & Technology and Department of Fisheries, Govt. of Kerala from 11th to 14th February 2020.
2. **Thirunavukkarasu.N**. 2019. Pulicat Lake wetland ecosystem - Challenges and opportunities. International Conference on Partnership and Ownership Building for Sustainable Development held at Guru Nanak College, Chennai from 5th to 6th December, 2019. p.64.
3. **Thirunavukkarasu.N**. 2019. Impacts of climate change on biodiversity and ecosystem of Pulicat Lake. International Conference on Partnership and Ownership Building for Sustainable Development held at Guru Nanak College, Chennai from 5th to 6th December, 2019. p. No.96.
4. **Thirunavukkarasu. N** and R.Sumithraa. 2019. Present status of the socio-economic conditions of the fishing community and the assessment of post-harvest losses in fisheries of Pulicat on the SouthEast coast of India. World Brackishwater Aquaculture Conference 2019 organised by Society of Coastal Aquaculture and Fisheries and ICAR-Central Institute of Brackishwater Aquaculture on 23rd to 25th January, 2019. p.287.
5. Sumitraa. R, Vinoth. A and **Thirunavukkarasu.N**. 2019. Increasing Fishing pressure and threats on the Pulicat Lake ecosystem. International Conference on Partnership and Ownership Building for Sustainable Development held at Guru Nanak College, Chennai from 5th to 6th December, 2019. p.63.
6. Sruthi.H and **Thirunavukkarasu.N**. 2019. Taxonomy - A tool for assessing and conserving its biodiversity. International Conference on Partnership and Ownership Building

for Sustainable Development held at Guru Nanak College, Chennai from 5th to 6th December, 2019.p.87.

7. Thirunavukkarasu.N. 2018. Production of Chitosan and Glucosamine Hydrochloride from bycatch of stomatopod *Oratosquilla quinquedentata* and crab *Liagore rubromaculata*. International Conference on “Biodiversity – Strategies for Conservation and Sustainable Utilisation” at Ethiraj College for Women, Chennai during 1st to 2nd February, 2018.

8. C.Sheeba Anitha Nesakumari and **N. Thirunavukkarasu.** 2017. Culture, live feed potential and nutritional evaluation of amphipod *Ampithoe ramondi*. International Conference on Biotechnology and its applications in Aquaculture and Fisheries (Sponsored by Science Engineering Research Board and Department of Biotechnology) held at Faculty of Marine Sciences, CAS in Marine Biology, Annamalai University, Papragipettai, India on 23rd to 25th August, 2017.

9. **Thirunavukkarasu.N,** D.Alexander, S.Muthukumar, P.Vijayanand and C.Sheeba Anitha Nesakumari. 2016. Marine Crustacean Bycatch Resources and the production of chitin and chitosan from Royapuram Fish Landing Center, Chennai. XV AZRA International Conference on Recent Advances in Life Sciences on 11th to 13th February, 2016 at Ethiraj College for Women, Chennai.

10. **Thirunavukkarasu.N** and A.Shanmugam. 2013. Nutritional Evaluation of mud crab *Scylla tranquebarica* (Fabricius, 1798). International-Seminar Workshop on Mudcrab Aquaculture and Fisheries Management organized by Rajiv Gandhi centre for Aquaculture (RGCA) on 10th to 12th April 2013.

11. **Thirunavukkarasu.N,** A.Shanmugam and S.Ajmalkhan. 2013. Reproductive biology and size of mud crab found in Parangipettai waters. International-Seminar Workshop on Mudcrab Aquaculture and Fisheries Management organized by Rajiv Gandhi centre for Aquaculture (RGCA) on 10th to 12th April 2013.

12.**Thirunavukkarasu.N,** R.Moses Inbaraj, V.Deepak Samuel and A.Shanmugam 2009. Mud crab Fisheries trade in India – Challenges and Opportunities. World Ocean Conference, International Symposium on Ocean Science, Technology and Policy held on 11th – 15th May, 2009 at Manado, Indonesia. P.11.

13.**Thirunavukkarasu.N,** S.Gokulakrishnan, P.V.R.Premjothi, K.Maheshkumar, J.Sesh Serebiah, Lita Sunder, V.Deepak Samuel and R.Moses Inbaraj. 2010. Need of Coastal Resource Management in Pulicat Lake – Challenges ahead. International Conference on Global Environment and its Sustainability: Implications and Strategies held at RKM Vivekananda College, Chennai on 7th November 2010.

Participation in Conference:

International:

1. 5th Joint International Conference on **Environmental Sciences & Climate Change: Accomplishments, Plans and Challenges** & 13th International Congress on **Climate Change, Territorial Classification & Socio Economic Crisis** held at University of Madras from 11th to 13th November, 2019.

2. 9th International Symposium on **Reproductive Physiology of Fish** at Thriussur, Kerala from 9th to 14th August 2011.
3. UBCHEA: **Coastal Resources Management** Collaborative research Project Symposium in India at Chennai on 26th to 27th August 2010.
4. **International Conference on Global Environment and its Sustainability: Implications and Strategies** held at RKM Vivekananda College, Chennai on 7th November 2010.
5. **“International Marine Biodiversity Conservation Festival”** held at Chennai organized by TREE Foundation, Chennai 2nd May 2010.
6. International Conference on **“Ocean Life, Food and Medicine – EXPO 2004”** held at IMAGE, Chennai from 27th - 29th February 2004.

National

1. National Conference on **“Basic Science (Environmental Science)”** conducted by Science City, Chennai on 25.11.2019.
2. National Seminar on **“Human Intervention on Ecological Balance and Utilization of Living Resources”** organized by Department of Zoology, Government Arts College for Men, Chennai on 25th January 2018.
3. National Seminar on **“Conservation of Biodiversity”** held at Dept. of Zoology, Quaid-E-milleth Government College for Women on 7th February 2012.
4. 98th Indian Science Congress held at SRM University, Chennai from 3rd to 7th January 2011.
5. National Conference on **“Marine Biodiversity – Present Status and Prospects”** organized by Bharathidasan University, Trichirappalli held at 16th to 18th September 2010.
6. National Seminar on **“Environmental Monitoring: Issues and Challenges”** held at Madras Christian College, Chennai, on 9th February 2010.
7. National Conference on **“Biotechnological Intervention for Conservation and Sustainable Utilization of Bioresources”** at Satyabama University, Chennai on 7th to 9th August 2008.
8. National Level Seminar on **“Therapeutic and Industrial applications of Marine Resources with Biotechnological Potentials”** organized by Prof. Dhanabalan College for Women, Chennai on 28th February 2008.
9. National Seminar on **“Global Warming and Coastal Ecosystems”**(Sponsored by Ministry of Earth sciences, Govt of India & Tamilnadu State Council for Science and Technology, Govt of Tamilnadu) organized by Suganthi Devadason Marine Research Institute, Tuticorin in collaboration with IUCN and CORDIO held at Tuticorin on 8th June 2007.
10. Regional conference on **“Quality Improvement and Sustenance in Higher Education”** (Sponsored by the NAAC & UBCHEA) held at Madras Christian College, Tambaram, Chennai from 20th – 21st February, 2006.

11. National Seminar on **“Pollution – A Threat to the Nation”** (Sponsored by UGC, New Delhi) organized by Bishop Heber College, Trichirappalli on 8th - 9th March 2001.

12. National Seminar on **“Atomic Energy, Ecology and Environment”** (Sponsored by BRNS, Department of Atomic Energy) organized by Jamal Mohamed College, Trichirappalli on 8th - 9th February 2001.

13. Inter Collegiate Students Seminar on **“Modern Approaches”** in **“Life Science”** on 6th January 2001 at Erode.

Participation in Workshop:

International:

1. **International workshop on “Natural Hazards and Coastal Zone Management”** organized by Department of Applied Geology and Centre for Ocean and Coastal Studies, University of Madras on 20th & 21st February, 2009.
2. **“International course on Marine and Coastal Resource Management”** held at Institute for Ocean management, Anna University, Chennai from 5th to 23rd February 2007.

National:

1. Workshop on **“Self-Awareness and Higher Goals in Education”** organized by the Department of Humanities & Social Sciences and Mechanical Engineering, IIT Madras from 29th May to 2nd June, 2017.
2. Workshop cum Training on **“Fish Cell Culture Techniques”** organized by Centre for Ocean Research, Sathyabama University, Chennai from 3rd to 4th November, 2015
3. Training on **“Production of Chitin and Chitosan”** conducted by the Central Institute of Fisheries Technology from 13th to 14th July, 2015 at Kochi.
4. National Workshop on **“Recent Techniques in Marine Fish Immunology”** sponsored by Ministry of Human Resource Development (MHRD) held at CAS in Marine Biology on 1st to 2nd March 2014.
5. **Workshop on “Coastal Biodiversity Restoration”** at Estuarine Biological Laboratory, Pulicat on 1st to 5th September 2010.
6. **Workshop on “e-content creation”** Conducted by Bioinformatics Centre of BTISnet, at Madras Christian College on 11th August 2010.
7. **Workshop on “Coastal Biodiversity Restoration”** at Estuarine Biological Laboratory, Pulicat on 9th to 11th December 2009.
8. Workshop on **IMAGE ANALYST**, GeoMedia Professional conducted by Madras Christian College from 6th -7th August 2007.
9. **“Workshop on Bay of Bengal Biogeographic Information System (BoBIS)”** jointly organised by Centre of Advanced Study in Marine Biology (Parangipettai), National Institute

of Oceanography (Kochi) and National Chemical Laboratory (Pune) at Parangipettai from 19th to 20th February 2007.

10. **Advance course on “SEAFOOD HACCP”** conducted by the Central Institute of Fisheries Technology from 4th to 7th May 2005 under the auspices of CIBA and Society of Aquaculture Professionals at Chennai.

11. Short-term course on **“Fishery Technology”** conducted by Central Institute of Fisheries Nautical & Engineering Training (CIFNET) from 1st to 4th March 2006 at Chennai.

12. Basic Training in **“Recombinant DNA Technology and PCR”** conducted by GENEI Pvt Ltd, Bangalore from 19th – 22nd May 2004.

13. Training course on **“Crab Fattening”** Conducted by The Marine Products development Authority (MPEDA) at Cochin from 1st – 5th December 2003.

14. Training course on **“Crab Breeding and Culture”** conducted by Central Institute of Brackishwater Aquaculture (CIBA), Chennai from 17th - 22nd June 2002.

15. Training programme on **“Fisheries”** by TamilNadu Veterinary and Animal Sciences University, Fisheries College and Research Institute, Tuticorin on 11th to 16th June 2001.

16. Training programme on **“Freshwater Fish & Prawn culture”** by TamilNadu Veterinary and Animal Sciences University Training and Research Centre on 13th– 17th November 2000 at Erode.

17. Workshop cum Seminar on **“AIDS”** on 22nd - 23rd August 2000 at Salem.

Refresher and Orientation Courses:

1. Refresher Course in **Environmental Sciences** from 21.8.19 to 3.9.19 conducted by UGC-HRDC, Pondicherry University, Puducherry with “A” grade.
2. Refresher Course on **Life Sciences** from 12.11.14 to 2.2.14 conducted by UGC-Academic Staff College, University of Madras, Chennai with “A” grade.
3. **“Orientation course” (Intensive Training Programme)** from 4.5.11 to 2.6.11 conducted by Tamilnadu State Council for Higher Education and UGC-Academic Staff College, University of Madras, Chennai.
4. Completed the **Orientation course** (84th Batch) at University of Madras from 14.05.2008 to 10.06.2008 with ‘A’ grade.

Faculty Development Programme Attended:

1. Online Crash Course on **“Introduction of Birds”** organized by Bambay Natural History Society from 9th May to 20th June 2021.
2. Online Course on **Remote Sensing & GIS Technology and Applications** for the University Teachers & Government Officials organized by Indian Institute of Remote Sensing, Dehradun from 13th June to 1st July 2020.

3. Faculty Development Programme on **Techno-Advancements in Climate Change in Marine Sciences – A Key to Sustainability and Conservation** organized by Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College from 1st to 6th June 2020.
4. Faculty Development Programme on UGC STRIDE Free Virtual programme on **“Mitigating Climate Change”** organized by Central University of Tamilnadu from 26th April to 6th May 2021.

Additional Responsibilities:

1. Serving as **Associate NCC officer** in Dr.Ambedkar Government Arts College, Vyasarpadi, Chennai (Under 8 Coy, 1 Tamilnadu Battalion) **from 29.2.2012.**
2. Serving as **Question paper setter & evaluator** – AMET University, Annamalai University, Sathyabama University, Ethiraj College for Women, DG Vaishnav College, Guru Nanak College, JBAS College for Women, Bharathi Women's College, Govt, Arts College for Men, Chennai.
3. Served as **Head** in the Department of Marine Studies & Coastal Resource Management at Madras Christian College (Autonomous), Chennai from 28.1.2008 to 25.2.2011 towards executing department academic activities.
4. Served as **Associate Co-ordinator** of Examinations in Madras Christian College, Tambaram, Chennai from August 2009 to February 2011 towards conducting the semester examinations.
5. Served as **Core Team Member** in Internal Quality Assurance Cell for NAAC Accreditation at Madras Christian College, Chennai.
6. **Reviewer** of Indian Journal of Geo-Marine Science, Biotropica & Journal of Coastal Conservation.
7. **Course Writer** (Study Material) for B.Sc., & M.Sc., Zoology from Tamil Nadu Open University.
8. **Subject Expert (Zoology)** - Tamil Nadu Skill Development Corporation and Directorate of Collegiate Education (Add on Courses for the UG & PG students of Tamil Nadu Government Arts and Science Colleges)

Awards:

- **Best Ph.D Thesis Award** (Prof.R.V.Seshaiya Prize) from Annamalai University in the year 2007.
- **Overall Best Associate NCC Officer Award** in the Refresher Course for the NCC officers at Officers Training Academy, Kamptee, Nagpur, Maharashtra from 31.10.2016 to 29.11.16.
- Secured **II Prize in Oral presentation** in the International Conference on “Biodiversity – Strategies for Conservation and Sustainable Utilization at Ethiraj College for Women, Chennai during 1st to 2nd February, 2018.
- **Appreciation from Directorate of Collegiate Education** towards Education Department Stall in 44th India Tourist and Industrial Festival Fair 2018.

