



RESUME

Name: DR.K.SHINY SREEDHAR
Designation: Principal
Department: Zoology
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Email: ksssncheng@gmail.com
Date of Entry into Service: 08.08.1997
Date of Retirement: 30.06.2019
Qualifications: M.Sc., Ph.D.
Area of Interest: Aquatic toxicology, Malacology, Environmental science
Field of Research: Marine Biology
ORCID ID 0000-0002-6991-0964
Experience Teaching - 18 years
Research - 25 years
Administrative Experience - 1 year and 4 months

Memberships in Learned Bodies/Societies: National – 4, International – 2

1. Life member, Kerala Academy of Science
2. Life member, Marine Biological Association of India
3. Life member, Society of Fisheries Technologists, India
4. Fellow member, Society for Applied Biotechnology
5. Membership as nonmember in the Society of Environmental Toxicology and chemistry (SETAC), Asia/Pacific- 2013 (ID:17060479).
6. E- Member of the Society for Laboratory Automation and Screening (SLAS), Europe -2015 (ID 70023)

Extension Activities:

1. Extension Trainee, Brackish water Fish Farmers Development agency, Cochin during 1995-1996.
2. Conducted socioeconomic agricultural survey of Kuttanad region in 2013
3. Delivered Invited Talks
4. Undertaken Research Projects of socio-economic relevance

Papers Published:

1. Shiny Sreedhar, K. and C.K. Radhakrishnan. 1994. *Musculista senhausia*- A new mussel resource from Cochin backwaters. *Seafood Export Journal*, XXV (19): 27-29.
2. Shiny Sreedhar, K. and C.K. Radhakrishnan. 1994. Rate of water filtration in the mussel, *Musculista senhausia* (Benson) from Cochin backwaters, west coast of India. *Indian Journal of Marine Science*, 23:176-177.
3. Shiny Sreedhar, K. and C.K. Radhakrishnan. 1995. Allometric relationships in the

- mussel, *Musculista senhausia* from Cochin waters. *Fishery Technology*, 32(1): 6-10.
4. Shiny Sreedhar, K. and C.K. Radhakrishnan. 1995. Energy storage and utilisation in relation to gametogenesis in the mussel, *Musculista senhausia* (Bivalvia: Mytilidae) from Cochin backwaters, west coast of India. *Indian Journal of Marine Science*, 24: 203-206.
 5. Shiny Sreedhar, K. and C.K. Radhakrishnan. 2004. Histochemical localisation of energy reserves in the mussel, *Musculista senhausia*. *Journal of Marine Biological Association India*, 46(1): 44-49.
 6. Shiny Sreedhar, K. S. 2005. New Arena of Taxonomy with Special Reference to Bivalve Molluscs. *Proc. Sem. Recent Trends Appl. Biosci.*: 19-28.
 7. Shiny Sreedhar, K. 2008. Ecological data of Vembanad Lake for sustainable management of *Villorita cyprinoids*. *Proc. Natl. Sem. Environ. Mgt. Sust. Livelihood*: 60-72.
 8. Shiny Sreedhar, K. 2008. Genotoxicity of Aquatic Systems. *Proc. Natl. Sem. Appl. Biotechnol. Aquaculture*: 62-64.
 9. Shiny Sreedhar, K. and C.K. Radhakrishnan. 2009. Occurrence of the invasive mussel, *Musculista senhausia* in Cochin Backwaters. Book of Abstracts, *Int. Natl. Sym. Mar. Ecos. Chall. Oppor.*:194.
 10. Shiny Sreedhar, K and Salini, R. 2009. Urea content in the black clam *Villorita cyprinoides* (Gray, 1825). *Journal of Experimental and Theoretical Research*, 1(1):104-108.
 11. Shiny Sreedhar K and Ratheeshmon, P. 2009. Impact of Thanneermukkom bund on the hydrology of Vembanad Lake. *Proc. Natl. Sem. Environ. Chall. of 21st century*:71-74.
 12. Mekha, D and K. Shiny Sreedhar. 2010. Effects of urea on biochemical constituents of *Villorita cyprinoides* (Gray, 1825). In book: *Green Path to Sustainability: Prospects and Challenges*: 127-131. ISBN: 978-81-907269-9-3.
 13. Sudhakaran, S C K., Deepa, C K. and K Shiny Sreedhar. 2011. Effect of coconut husk retting on *Etroplus maculatus* (Bloch). *Ecology Environment. & Conservation*, 17(2):287-289.
 14. Ampili, M and K. Shiny Sreedhar. 2012. Nutritional conditions: Condition index, percentage edibility and biochemical constituents in *Paphia malabarica* (Chemnitz). *International Journal of Agriculture and Food Science Technology*, 3 (1): 1-19.
 15. Anjali S and K Shiny Sreedhar 2013 Diversity and Taxonomy of planktons in Vembanad Lake . *Journal Experimental and Theoretical Research*, 3:65-79.
 16. Shyini S Dev and Shiny Sreedhar, K. 2014. Histopathological effects of an agrochemical on the black clam, *Villorita cyprinoides*. *Fishery Technology*, 51: 162 – 166
 17. Aswathy, S., Veena, P. B. and Shiny Sreedhar K. 2014. Histological alterations in selected tissues of *Tilapia mossambica* (Cichlidae) as a biomarker of fertilizer pollution. *Journal of Aquatic Biology and Fisheries*, 2: 75- 80.
 18. Ampili, M. and Shiny Sreedhar, K. 2014. Sediment texture of two estuaries: a deep lake and a shallow lake. In: *Proc. Natl. Sem. on Conservation and Management of Mangrove ecosystem with special reference to its faunal diversity*: 18-29.
 19. Ampili, M. and Shiny Sreedhar, K. 2014. Molecular phylogeny of veneridac

(Mollusca:Bivalvia) based on nuclear ribosomal internal transcribed spacer region
International Journal of Molecular Biology, 5(1):97-101.

20. Ampili, M. and Shiny Sreedhar, K. 2015. Morphotypes: Morphological plasticity in *Paphia malabarica* (Chemnitz) (Mollusca: Bivalvia) of a deep estuary, Ashtamudi estuary. *International Journal of Scientific and Research Publications*, 5 (6):1-4.
21. Ampili, M. and Shiny Sreedhar, K. 2016. Hydrologic and sediment parameters affecting the distribution of the Venerid clam, *Paphia malabarica* in two estuaries. *International Journal of Scientific and Research Publications*, 6(3): 15-30.
22. Ampili, M. and Shiny Sreedhar, K. 2016. Ecophenotypes: Genetic and Environmental Influences on Shell Morphology in Venerid Clam, *Paphia Malabarica*. *International Journal of Molecular Biology*, 6(3): 119-123.
23. Shiny Sreedhar, K. 2016. Diversity and distribution of phytoplankton in Vembanad Lake *Proc. Natl. Sem. on Impact of Climate Change on Fish and Fisheries Fisheries* (in press).
24. Ampili, M. and Shiny Sreedhar, K. 2016. Density and distribution of two Venerid clams in Ashtamudi estuary. *Proc. Nat. Sem. on Impact of Climate Change on Fish and Fisheries* (in press).

Papers Presented:

1. Occurrence of the invasive mussel, *Musculista senhousia* in Cochin Backwaters. International Seminar on Marine Ecosystem- Challenges and Opportunities conducted by Marine Biological Association of India, CMFRI, Cochin, 2009
2. Impact of Thanneermukkom bund on the hydrology of Vembanad Lake. National Seminar on Environmental Challenges of 21st Century conducted by the Department of Zoology, T K M M College, Nangiarkulangara on 10th and 11th December 2009.
3. Termite inspired ventilation system: means of energy conservation. National Seminar on Energy Conservation conducted by PG Department of Physics, S N College, Cherthala on 30th March 2011.
4. Ecology of clam bed – Hydrographic conditions influencing the density and distribution of Venerid clam *Paphia malabarica* in two lake systems. National conference on conservation and management of wetland ecosystems organized by the School of Environmental Sciences, M G University, Kottayam from 6th -8th November 2012
5. Ecological Characterization of Kuttanad Wetland Ecosystem. National symposium on innovative approaches and modern technologies for crop productivity, food safety and environmental sustainability organized by the Society for Advanced Biotechnology from 19th -20th November 2012.
6. Histopathological effects of an agrochemical on the black clam, *Villorita cyprinoides*. International symposium on Greening Fisheries- Towards green technologies in fisheries organized by the Society of Fisheries Technologists (India) and Central Institute of Fisheries Technology, Cochin from 21th -23rd May 2013.
7. Histological alterations in selected tissues of *Tilapia mossambica* (Cichlidae) as a biomarker of fertilizer pollution. International conference on Ecosystem conservation, climate change and sustainable development organized by the department of Aquatic Biology, University of Kerala Trivandrum and from 3rd to 5th October 2013.
8. Diversity and distribution of phytoplankton in Vembanad Lake. National Seminar on Impact

of Climate Change on Fish and Fisheries conducted by the Department of Zoology, S N College, Cherthala from 26th to 27th July 2014.

9. Density and distribution of two Venerid clams in Ashtamudi estuary. National Seminar on Impact of Climate Change on Fish and Fisheries conducted by the Department of Zoology, S N College, Cherthala from 26th to 27th July 2014.
10. Hydrology of two water sheds influencing the density and distribution of venerid clam *Paphia malabarica*. Omics group's 3rd International Conference on Hydrology & Meteorology, Hyderabad International Convention Centre, India September 15-16, 2014.
11. Sediment texture of two estuaries: a deep lake and a shallow lake. National seminar on Conservation and Management of Mangrove ecosystem with special reference to its faunal diversity. Conducted by N.S.S.Hindu College, Changanacherry, December 4-5, 2014.

Invited Lecture:

1. 'New Arena of Taxonomy with Special Reference to Bivalve Molluscs' Seminar on Recent Trends in Applied Biosciences conducted by the Department of Zoology, S N College, Cherthala on August 18th and 19th August 2005.
2. 'Research Methodology'. Seminar Series, 'Darsan 2010' held at T. K. Madhava Memorial College, Nangiarkulangara, Alappuzha on 12th October 2010.
3. 'An Introduction to Bioinformatics'. Presented in connection with the inauguration of the Zoology Association of St. Michael's College, Cherthala on 7th February 2013

Books Published:

1. Co-author of a book "Informatics Bioinformatics" Published by Academica, Trivandrum, 232pp, 2010.
2. Co-author of a book "Ecology, Ethology, Evolution, Zoogeography" Published by Manjusha Publications, Calicut, 328pp, 2012.
3. Co-author of a book "Human diseases and their management" Academica, Trivandrum (under publication).

Research Projects:

Minor Project (Completed) -1

Title: Diversity and ecology of bivalve molluscs of Vembanad lake

Funding Agency: UGC

Duration: 2004-2006

Major Project (Completed) -1

Title: Effect of artificial fertilizers on Kuttanad Wetland ecosystem, the rice bowl of Kerala

Funding Agency: UGC

Duration: 2011-2014

Orientation Courses Attended:

Orientation course conducted by UGC-Academic Staff College, University of Kerala, Trivandrum from 30th May to 26th June 2001.

Refresher Courses Attended:

1. Summer school on "Recent Approaches to Marine Fishery Resources Assessment and Management" organised by ICAR from 24th May to 22nd June 1999
2. Refresher course in Bioinformatics conducted by UGC-Academic Staff College, University of Kerala, Trivandrum from 19th September to 10th October 2005.

3. Refresher course in Biostatistics conducted by UGC-Academic Staff College, University of Kerala, Trivandrum from 9th September to 3rd October 2006.

Experience as research guide:

Ph.D. awarded – 1 (M G University)

Guiding – 2 (Kerala University)

Research Achievements:

1. Deposited the genome sequence of a bivalve mollusc, *Paphia malabarica* at NCBI site, <http://www.ncbi.nlm.nih.gov> (Accession number JX 997826).
2. Deposited the genome sequence of a bivalve mollusc, *Meretrix meretrix* at NCBI site, <http://www.ncbi.nlm.nih.gov> (Accession number KC416612).
3. Deposited the genome sequence of a bivalve mollusc, *Paphia malabarica neendakarayansis* at NCBI site, <http://www.ncbi.nlm.nih.gov> (Accession number KC416613).

Seminars/Workshops organised:

1. Seminar on ornamental fish culture in S N College, Cherthala (2003).
2. Training programme in General Informatics for college teachers in S N College, Cherthala from 7th to 9th December 2010.
3. Arranging seminars (scientific and social relevance) in S N College, Chengannur in the cadre of Principal since 2015.

Seminars/Workshops attended: 33

Journal / presentation review:

1. Reviewer of an ICAR Journal, 'Fishery Technology'.
2. Performed as reviewer for the evaluation of oral and poster presentation in connection with the National seminar on conservation and management of mangrove ecosystem with special reference to its faunal diversity organized by P.G and Research Department of Zoology, NSS Hindu College, Changanacherry on 4th December 2014.

Academic Responsibilities Undertaken:

1. Question paper setter and External examiner
2. External examiner, PG Viva Voce Board, Mahatma Gandhi University, Kottayam (2006-2008).
3. Member, PG syllabus revision committee (2013), University of Kerala
4. Member, Board of Studies, Assumption College, Changanassery (Autonomous).