Biodata



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Field of Specialization	:	Fish Genetics and Breeding
Experience	:	11 Years

Current Projects:

Sl.No	Title of the project	Year	PI & Co-PI of the Project	Funds (In Rs.)	Funding Agency
1.	Unravelling genetic variation among Scat (*Scatophagus argus*) populations of India through captive breeding and molecular markers	2025-27	PI	₹24.23 lakhs	DBT, Govt. of India
2.	Molecular Authentication of Commercial Seafood in Tamil Nadu Using DNA Barcoding to Prevent Fish Substitution and Support Traceability	2026-28	PI	₹24.15 lakhs	CMRG, Govt. of Tamil Nadu
3.	Verification & Monitoring Consultant (V&MC) for Puducherry for Pradhan Mantri Matsya Kisan Samridhi Sah-Yojana (PM-MKSSY)	2026-29	PI	₹50.00 lakhs	DoF, Govt. of India
4.	Establishment of Ornamental Fish Breeding Units for Empowering Scheduled Communities of Tamil Nadu	2025-26	PI	₹6.20 lakhs	ICAR – NBFGR under SCSP

Completed Projects:

Sl.No	Title of the project	Year	PI & Co-PI of the Project	Funds (in Rs.)	Funding Agency
1.	Establishment of shrimp brood bank in Kanyakumari	2015-16	Co-PI	₹198.91 lakhs	NADP (National Agricultural Development Programme)
2.	Strengthening of Regional stations of CeSA, TNJFU	2016-17	Co-PI	₹274.54 lakhs	
3.	Deciphering genomic insights associated with adaptation in *Etroplus suratensis* (Pearl spot) for Climate Resilient Aquaculture	2022-25	Co-PI	₹36.85 lakhs	ICAR - NICRA
4.	Development and management of pure line inland fish brooders in the brooder farm and production of good quality seeds	2022-25	Co-PI	₹ 38.20 lakhs	TN IAMP

Research Publications:

1. Kashyap, N., **Suresh, E.,** Agarwal, D., Kathirvelpandian, A., Chidambaram, P., Ramasre, J. R., & Vaishnav, A. (2026). Antibacterial potential and proximate composition of *Withania somnifera* root extracts using different solvents. *Journal of Environmental Biology, 47*, 135–141.
2. Hariharan, P., **Suresh, E.,** Chidambaram, P., Kathirvelpandian, A., Maria Susila Vinisha, V., Vanathi, V., George Rayventh, C., Srihari, M., & Lingam, R. S. S. (2026). Variations among Nile tilapia reproductive strains: An integrative morphometric and molecular approach. *Journal of Fish Biology*, 1–15.
3. Subramaniyan, M., Yadav, S. K., Sakthivel, M., Senthil Kumar, V., & **Suresh, E.** (2025). Genetic health of Indian major carps: Assessment of effective population size and rate of inbreeding in fish hatcheries of Tamil Nadu, South India. *Indian Journal of Fisheries, 72*(4), 55–60.
4. Kashyap, N., **Suresh, E.,** Agarwal, D., Kathirvelpandian, A. and Chidambaram, P. (2025). Impact of *Withania somnifera* Supplementation on Growth, Reproduction and Hormonal Profile of *Lepidocephalichthys thermalis* in Captivity. *Indian Journal of Animal Research.* 1-8.
5. Balaganesan, M., Shanmugam, S. A., Agarwal, D., Durairaja, R., Ramya, R., Rathipriya, A., & **Suresh, E**. (2025). Fish species inventory in the rhithron zone of the Thamirabarani River, Western Ghats, South India. *Pakistan Journal of Zoology*, 57(1), 1–11.

PG/Ph.D. students guided (as Chairman)

S. No.	Name of the student	Degree	Research Title
1	I. Vidhya	M.F.Sc. (Fish Genetics and Breeding)	Molecular characterization of mullet species of South Indian region.
2	Rakesh Nirmalkar	M.F.Sc. (Fish Genetics and Breeding)	Evaluation of Nano Iron on Growth Performance of Pearl Spot (*Etroplus suratensis*)
3	Anjusha Miriyala	M.F.Sc. (Fish Genetics and Breeding)	Estimation of genetic parameter of reproductive traits in captive bred Zebrafish (*Danio rerio*)
4.	Shiv Kumar Yadav	M.F.Sc. (Fish Genetics and Breeding)	Genetic characterization of *Scatophagus argus* populations of East coast of India using mitochondrial DNA markers
5.	M. Subramanian	M.F.Sc. (Fish Genetics and Breeding)	Assessment of inbreeding rate, reproductive performance and genetic diversity of hatchery-bred *Labeo rohita* populations of Tamil Nadu
6.	P. Hariharan	M.F.Sc. (Fish Genetics and Breeding)	Estimation of heterosis for growth traits in a full diallel cross of three strains of tilapia
7.	V. Maria Susila Vinisha	M.F.Sc. (Fish Genetics and Breeding)	Building a comprehensive DNA barcoding for the fishes of the Kovalam coast, Chennai
8.	Narsingh Kashyap	Ph.D. (Fish Genetics and Breeding)	A study on the effects of *Withania somnifera* root extract on the maturation, reproduction and immune-related gene expression in common spiny loach (*Lepidocephalichthys thermalis*)