Individual Bio data



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Qualification	Ph.D in Fish Quality Assurance and Management
Additional Qualification	M.Sc., Bioinformatics
Field of Specialization	Fish Quality Assurance
Experience (in years)	5 years 7 months

Publications:

1. Arisekar, U., Shalini, R., Shakila, R. J., **Sivaraman, B.**, Selvaraj, M., Meena, P. L., & Sundhar, S. (2025). Impact of thermal processing on mercury, selenium and arsenic levels in farmed shrimp (*Penaeus vannamei*, Boone, 1931): Se: Hg molar ratios, benefit-risk analysis, and health implications. *Journal of Food Composition and Analysis*, *139*, 107148.
2. Emiema, S. A., Ravikumar, T., Elavarasan, K., Neethiselvan, N., Parthiban, F., **Sivaraman, B.**, & Mariappan, S. (2025). Acceptability and Shelf Life Evaluation of Surimi Gel-Based Fish Bait under Refrigerated and Ambient Storage. *Thalassas: An International Journal of Marine Sciences*, *41*(1), 1-12.
3. Shalini, R., Arisekar, U., Jeyasekaran, G., Jeya Shakila, R., Sundhar, S., **Sivaraman, B.**, & Tamizhselvan, S. (2025). Mineral Composition of the Commercially Valuable Fish and Shellfish Caught along the Thoothukudi Coast, Southeast India. *Journal of Coastal Research*, *41*(1), 94-104.
4. Balamanikandan, V., Shalini, R., Arisekar, U., Shakila, R. J., Padmavathy, P., **Sivaraman, B**., Devanesan, S., Sundhar, S., AlSalhi, M.S., Mythili, R. & Kim, W. (2024). Bioaccumulation and health risk assessment of trace elements in Tilapia (*Oreochromis mossambicus*) from selected inland water bodies. Environmental Geochemistry and Health, 46(6), 187.
5. Arisekar, U., Shakila, R. J., Shalini, R., **Sivaraman, B**., Karthy, A., Al-Ansari, M. M., Dahmash Al-Dahmash, N., Mythili, R., Kim, W., Ramkumar, S. and Kalidass, B & Sangma, S. N. (2024). Diffusion of organochlorine (OCPs) and cypermethrin pesticides from rohu (Labeo rohita) internal organs to edible tissues during ice storage: a threat to human health. Environmental Geochemistry and Health, 46(4), 126.
6. Sundhar, S., Arisekar, U., Shakila, R. J., Shalini, R., Al-Ansari, M. M., Al-Dahmash, N. D., Mythili, R., Kim, W., **Sivaraman, B**., Jenishma, J.S. & Karthy, A. (2024). Potentially toxic metals in seawater, sediment and seaweeds: bioaccumulation, ecological and human health risk assessment. Environmental Geochemistry and Health, 46(2), 35.

7. Renuka, V., Ravishankar, C. N. R., Krishnamoorthy, E., Zynudheen, A. A., & **Sivaraman, B**. (2024). Utilization of *Parapeneopsis stylifera* shrimp shell waste for the production of chitooligosaccharides using different non-specific enzymes and their characterization. Polymer Bulletin, 81(3), 2801-2817.
8. Surya, T., Jeyasekaran, G., Shakila, R. J., Alsalhi, M. S., Devanesan, S., **Sivaraman, B**., Arisekar, U., & Pham, T. H. (2023). Effect of antibiotics and sanitizers on Salmonella biofilms associated with seafood contact surfaces. *Microbiological Research*, *266*, 127213.
9. Surya, T., Jeyasekaran, G., Shakila, R. J., **Sivaraman, B**., Shalini, R., Sundhar, S., & Arisekar, U. (2022). Prevalence of biofilm forming Salmonella in different seafood contact surfaces of fishing boats, fish landing centres, fish markets and seafood processing plants. *Marine Pollution Bulletin*, *185*, 114285.
10. Masilan, K., Neethiselvan, N., Shakila, R. J., Karthy, A., Arisekar, U., Muralidharan, N., Ravikumar,T., **Sivaraman, B**., Kalidas, C., Ranjith, L. & Linga Prabhu, D. (2022). Development of fish gelatin-based artificial fish baits incorporating bio attractants from seafood processing waste. Journal of the Indian Chemical Society, 100376.
11. Wilwet, L., Shakila, R. J., **Sivaraman, B**., Nayak, B. B., Kumar, H. S., Jaiswar, A. K., & Jeyasekaran, G. (2021). Rapid detection of fraudulence in seven commercial shrimp products by species-specific PCR assays. Food Control, 124, 107871.
12. Wilwet, L., JeyaShakila, R., **Sivaraman, B**., Nayak, B. B., Kumar, H. S., Jaiswar, A. K., & Jeyasekaran, G. (2021). In-house and on-field validation of the multiplex PCR assay developed for authentication of three commercially important shrimp species. LWT, 111701.
13. Masilan, K., Neethiselvan, N., **Sivaraman, B**., Ravikumar, T., Nagarajan, M., Karthy, A., & Sukumar, D. (2021). Valorization of discarded industrial fish processing wastes for the extraction of gelatin to use as biodegradable fish bait matrix using RSM. PeerJ Materials Science, 3, e14.
14. Arisekar, U., Shakila, R. J., Shalini, R., Jeyasekaran, G., **Sivaraman, B**., & Surya, T. (2021). Heavy metal concentrations in the macroalgae, seagrasses, mangroves, and crabs collected from the Tuticorin coast (Hare Island), Gulf of Mannar, South India. Marine Pollution Bulletin, 163, 111971.
15. Arisekar, U., Shakila, R. J., Shalini, R., **Sivaraman, B**., Jeyasekaran, G., & Malini, N. A. H. (2021). Heavy metal concentration in reef-associated surface sediments, Hare Island, Gulf of Mannar Marine Biosphere Reserve (southeast coast of India): The first report on pollution load and biological hazard assessment using geochemical normalization factors and hazard indices. Marine Pollution Bulletin, 162, 111838.
16. Shalini, R., Jeyasekaran, G., Shakila, R. J., Sundhar, S., Arisekar, U., Jawahar, P., Aanand,S., **Sivaraman, B**., Malini, N. A. H., & Surya, T. (2021). Dietary intake of trace elements from commercially important fish and shellfish of Thoothukudi along the southeast coast of India and implications for human health risk assessment. Marine Pollution Bulletin, 173, 113020.
17. **Sivaraman, B**., Jeyasekaran, G., Shakila, R. J., Aanand, S., & Sukumar, D. (2019). Authentication of nine snapper species by single-strand conformation polymorphism (SSCP) and forensically informative nucleotide sequencing (FINS) methods. Food Control, 99, 124-130.

18. **Sivaraman, B**., Jeyasekaran, G., Shakila, R. J., Wilwet, L., Alamelu, V., Aanand, S., & Sukumar, D. (2019). Molecular identification of Lutjanus species by PCR-RFLP analysis of mitochondrial 12S rRNA region. Journal of Food Composition and Analysis, 84, 103329.
19. Surya, T., **Sivaraman, B**., Alamelu, V., Priyatharshini, A., Arisekar, U., & Sundhar, S. (2019). Rapid methods for histamine detection in fishery products. Int. J. Curr. Microbiol. Appl. Sci, 8, 2035-2046.
20. **Sivaraman, B**., Jeyasekaran, G., Jeya Shakila, R., Alamelu, V., Wilwet, L., Aanand, S., and Sukumar, D. (2018). PCR-RFLP for authentication of different species of processed snappers using mitochondrial D-loop region by single enzyme. *Food Control*, *90*, 58-65.
21. Wilwet, L., Jeyasekaran, G., Jeya Shakila, R., **Sivaraman, B**., Padmavathy, P. (2018). A single enzyme PCR-RFLP protocol targeting 16S rRNA/tRNA^{val} region to authenticate four commercially important shrimp species in India. Food Chemistry, 239, 369-376.
22. Reshma Ramesh, Jeya Shakila,R., **Sivaraman, B**., Ganesan, P., Velayutham, P. (2018). Optimization of the gelatinization conditions to improve the expansion and crispiness of fish crackers using RSM. LWT - Food Science and Technology, 89, 248-254.
23. Selvaganapathi, R., Jeyasekaran, G., Shakila, R. J., Sukumar, D., Kumar, M. P., & **Sivaraman, B**. (2018). Occurrence of Listeria monocytogenes on the seafood contact surfaces of Tuticorin Coast of India. Journal of food science and technology, 55(7), 2808-2812.
24. **Sivaraman, B**., Jeya Shakila, R., Jeyasekaran, G., Sukumar, D., Manimaran, U., and Sumathi, G. (2016). Antioxidant Activities of Squid Protein Hydrolysates Prepared with Papain Using Response Surface Methodology. Food Science and Biotechnology, 25(3), 665-672.
25. **Sivaraman, B**., Renuka, V., Elavarasan, K., Shanmughavel, P. (2016). Genome-wide analysis of DnaJ protein family in Zebrafish (*Danio rerio*) and comparative phylogenetic analysis with four fish models,Journal of Fisheries and Life Sciences, 1, 8-15.
26. Manimaran, U., Jeya Shakila, R., **Sivaraman, B**., Shalini, R., Jeyasekaran, G. Shanmugam, S.A. (2016). Biochemical Quality Changes During Iced Storage of Indian Octopus (*Cistopus indicus*). Journal of Food Quality, 39(5), 487–495.
27. Sumathi, G., Jeyasekaran, G., Jeya Shakila, R., **Sivaraman, B**., Arunkumar, G., Manimaran, U., Sukumar, D. (2015). Molecular identification of grouper species using PCR-RFLP technique. Food Control, 51, 300-306
28. Manimaran, U., Jeya Shakila, R., Shalini, R., **Sivaraman, B**., Sumathi, G., Selvaganapathi, R., Jeyasekaran, G. (2015). Effect of additives in the shelflife extension of chilled and frozen stored Indian octopus (*Cistopus indicus*). Journal of Food Science Technology, 53(2), 1348-1354.

Completed projects and On-going Projects :

Sl.No.	Title of the Project	Year	PI & Co- PI of the Project	Funds (in Rs)	Funding Agency
1.	Climate chances and their role in the emergence of antibiotic resistant Salmonella in farmed shrimp and its environment	2022-2025	Co-PI	34.75 lakh	ICAR-NICRA

GenBank sequences

GenBank submission (61 sequences)	KY817234- KY817242 (9 sequences) MG417050- MG417055 (6 sequences) MG255108- MG255116 (9 sequences) MF527233-MF527247 (15 sequences) MN659333-MN659337 (5 sequences) KT898130-KT898131 (2 sequences) KT832810- KT832811 (2 sequences) PQ045756- PQ045758 (3 sequences) MW488305, MW363545, MW363541, MW243611, MN706185, MN658390, KX379460, KX443387, KX421799, KX274467

Book chapters published:

1. R. Jeya Shakila, B. Sivaraman & G. Jeyasekaran. (2022). Enzymes from Aquatic Resources and Their Application in Food and Cosmetic Industry. Advances in Fisheries Biotechnology pp 471–494. ISBN: 978-981-16-3215-0

2. V, Renuka, S.B.Ravi, K. Elavarasan, **B. Sivaraman,** K.Sathish kumar, R. Anandan, and CN, Ravishankar (2025). Physical and sensory quality of processed and packaged fish products. In *Quality Analysis and Packaging of Seafood Products* (pp. 335-355). Academic Press

Patents:

1. Designing of genus specific primer for Lutjanus from 16s rRNA mitochondrial region for authentication of snapper products by single step PCR. Patent No: 373138

Honours and Awards:

1. PFGF-Dr.I.Karunasagar best Ph.D thesis award (2020)
2. TNJFU- Prof. I. Karunasagar Gold Medal for best outgoing Ph.D student (2019)
3. TNJFU Appreciation award for technology development (2018)
4. Best Poster Presentation in EIQASFISH'16 (2016)