

Name	:	**Prof. R. JEYA SHAKILA**
Designation	:	Dean – Dr. MGR FC & RI, Ponneri
Date of Birth	:	01.04.1968
Address	:	TNJFU-Dr. MGR Fisheries College and Research Institute Ponneri campus- 601 204, Thiruvallur District, Tamil Nadu
Contact Telephone (O) Telephone (R) Mobile E-Mail	:	 044-2797 1556 044-27971557 9443453184 jeyashakila@tnfu.ac.in
Qualification	:	Ph.D.
Field of Specialization Major Specializing field	:	Food Science and Technology Fish Processing Technology Waste utilization, Biopolymers/Films, Quality Assurance and Product development.
Experience (in years)		26 years

PROJECTS:

1. ICAR – NICRA project "Climatic changes and their role in the emergence of antibiotic resistant Salmonella in farmed shrimp and its environment- 2022-22 – Rs. 35 lakhs
2. Multi-institutional DBT project on "Bio-prospecting for anti-osteoporetic collagen peptides derived from fish bones" – with University of Hyderabad - 2017-2020 -- Rs. 57 lakhs
3. ICAR Niche Area of Excellence in Fish Safety and Quality Assurance - 2014-2017- 305 lakhs
4. Sino- India project on "A detailed study on characterization of collagen from the Indian Ocean and its potential uses in bio-medical engineering" - Funded by State Science and Technology Commission (SSTC), China- 2016 – 2019- 900 RMP
5. SERB- DST project on "Bioactive peptides from fish protein hydrolysates produced using endogenous enzymes from fish processing wastes - 2013-2016- Rs. 39.98 lakhs
6. SERB-MoFPI Project on "Development of database for Indian seafood safety and traceablity based on AFLP markers - 2013-2015- Rs. 31.45 lakhs

PUBLICATIONS

1. Arisekar, U., **Jeya Shakila, R.,** Shalini, R., et al. (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.

2. Murugan, G., Benjakul, S., Prodpran, T., **Jeya Shakila, R.,** Karunanithi, M., V.P.A. Prakasam, & Nagarajan, M. (2024). Properties and Characteristics of Fish Skin Gelatin-Based Three-Layer Film Developed with Bioplastics and Physalis Leaf Extract. Waste and Biomass Valorization. https://doi.org/10.1007/s12649-024-02554-9.
3. Arisekar, U., **Jeya Shakila, R.,** Shalini, R., Jeyasekaran, G. and Padmavathy, P., 2022. Effect of household culinary processes on organochlorine pesticide residues (OCPs) in the seafood (*Penaeus vannamei*) and its associated human health risk assessment: Our vision and future scope. *Chemosphere,* **297,** 134075.
4. Masilan, K, Neethiselvan N, **Jeya Shakila R,** Karty A, Arisekar U, Muralidharan N, Ravikumar T, Sivaraman B, Kalidas C, Ranjith L, and Lingaprabu D. 2022. Development of fish gelatin based artificial fish baits incorporating bioattractants from seafood processing waste. *Journal of the Indian Chemical Society*, 99(3): 100376
5. Arisekar U., **Jeya Shakila, R.**, Shalini, R., Jeyasekaran, G., Sundhar, S., Arumugam, N., Almansour, A.I. and Perumal, K., 2022. Potentially toxic elements contamination and its removal by aquatic weeds in the riverine system: A comparative approach. *Environmental Research*, **206**, 112613.
6. Arisekar U., **Jeya Shakila, R.**, Shalini, R., Jeyasekaran, G., Keerthana, M., Arumugam, N., Almansou, A.I. and Perumal, K., 2022. Distribution and ecological risk assessment of heavy metals using geochemical normalization factors in the aquatic sediments. *Chemosphere,* **294**, 33708.
7. Arisekar, U., **Jeya Shakila, R.,** Shalini, R. Jeyasekaran, G., Padmavathy, P. and Sukumar, D., 2022. Effect of different thermal processing methods on potentially toxic metals in the seafood, *Penaeus vannamei*, and the related human health risk assessment. *Journal of Food Composition and Analysis*, **105**,104259.
8. Shalini, R., Jeyasekaran, G., **Jeya Shakila, R.,** Sundhar, S., Arisekar, U., Jawahar, P., Aanand, S., Sivaraman, B., Malini, N.A.H. and 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** (Pt A):113020.

PATENTS

1. Method of preparing anti-oxidative edible film from carp gelatin and fucoidan - R. Jeya Shakila, G. Raghu and G. Jeyasekaran (Patent Grant No. 342498; Granted on 27.07.2020,)
2. Design of genus specific primer for *Lutjanus* from 16S rRNA mitochondrial region for authentication of snapper product by single step PCR- G. Jeyasekaran, B. Sivaraman and R. Jeya Shakila (Patent No. 373138; Granted on 29.07.2021)
3. Multiplex PCR assay for authentication of processed *Portunus pelagicus* and *Portunus sanguinolentus* using specially designed species-specific primers from mt cyt b and 16S rRNA regions- G. Jeyasekaran, Dinesh Kumar and R. Jeya Shakila (Patent No. 384288; Granted on 14.12.2021)

Patents Published:

1. Patent No. 201641003818 - Multiplex Polymerase Chain Reaction (MPCR) kit for the simultaneous detection of *Salmonella*, *Vibrio cholerae* and *Escherichia coli*

from seafood products – Inventors : G. Jeyasekaran, R. JeyaShakila, K. Thirumalairaj, A. Jemila Thangarani and D. Sukumar - Published on 03.02.2016

Awards, Honours, and Fellowships

- ✓ Dr. B.C. Jha Gold Medal for distinguished research contribution (2022)
- ✓ Best Paper Award in 7th Tamil Conference (2022)
- ✓ TNJFU Best Teacher Award (2018)
- ✓ TNJFU Best Researcher Award (2017)
- ✓ TNJFU Best Achiever Award (2017)
- ✓ Best Oral Presentation Award (2016), EIQASFISH -16, Anna University, Chennai
- ✓ Best Researcher Award (2015), TN Agricultural Forum, Coimbatore
- ✓ Best Research Paper Award in JFST Journal (2014)
- ✓ Young Scientist Award (2003), Dr. Hiralal Chaudhury Fisheries Foundation, Mumbai
- ✓ Young Women Scientist award (2002), Science City, Govt. of Tamil Nadu
- ✓ Best Research Paper award (1995), ICFoST'95, CFTRI, Mysore
- ✓ Best Research Paper award (1994), MICON'95, DFRL, Mysore
- ✓ Best Research Paper award (1993), Society of Biological Chemists, CFTRI, Mysore
- ✓ Gold Medal for B.F.Sc (1989), Tamil Nadu Agricultural University, Coimbatore
- ✓ CSIR Senior Research Fellowship (1993-95)
- ✓ ICAR Junior Fellowship (1989-91)