Individual Biodata



Name : Dr. B. Chrisolite

Designation : Associate Professor

Address : Dept. of Fish Pathology and Health Management
Fisheries College and Research Institute
Tamil Nadu Dr.J.Jayalalithaa Fisheries University
Thoothukudi - 628 008,
Tamil Nadu, India

Contact
Mobile : +91 9486088410
Email : chrisolite@tnfu.ac.in
chrisolite.b@gmail.com

Qualification : M.F.Sc., Ph.D.

Field of Specialization
Major : Pathology and Microbiology in Aquaculture

Specializing Field : Fishery Microbiology, Fish and shrimp disease diagnosis, Fish Health Management

Experience (in years) : 15 Years

On-going Projects

Sl. No	Title of the Project	Year	PI & Co-PI of the Project	Funds (in Rs)	Funding Agency
1.	National Surveillance Programme for Aquatic Animal Disease – Phase II	3 years	Principal Investigator	52.2 lakhs	PMMSY-through ICAR-NBFGR

Completed projects :

Sl. No.	Title of the Project	Year	PI & Co-PI	Funds (in Rs)	Funding Agency
1	National Surveillance Programme for Aquatic Animal Disease	Five 2021 (12.08.2021	Co-PI	113.097 lakhs	NFDB

		to31.03. 2022)			
2	Establishment of seafood knowledge highway to improve health, combat malnutrition and enhance income of fishers	2013-14	Co-PI	199.57	NADP
3	Seasonal variation in the lipid and fatty acid profile of sardine (*Sardinella gibbosa*) and emperor fish (*Lethrinus lentjan*) from Thoothukudi coast	2014-2016	PI	-	TNFU

Research publications

- Kaviyarasu, P., Sivasankar, P., **Chrisolite, B**., Subash, P., Priyadarshini, M., Mansoor, M.M., Kumar, P.M., Selvamagheswaran, M., 2025. Protective and haemato-immunological effect of seaweed crude extracts against Tilapia Lake Virus (TiLV) in Nile tilapia, *Oreochromis niloticus. Aquaculture International*, 33:122, 1-32.
- Priyadarshini, M., Sivasankar, P., **Chrisolite, B**., Subash, P., Rani, V., Mansoor, M.M., Kumar, P.M., Selvamagheswaran, M., Evangelin, P.D., 2024. Innate immune response of snakehead fish to Indian strain of snakehead rhabdovirus (SHRV-In) infection and the infectivity potential of the virus to other freshwater fishes. *Fish & Shellfish Immunology*, *149*, 109577.
- Subash, P., **Chrisolite, B**., Sivasankar, P., George, M. R., Sudhagar L., Iyyappan T., Selvamagheswaran M., Mageshkumar, P., Padmavathy, P., Rani, V., and Amirtharaj, K., 2024. "Etiological factors driving white feces syndrome in farmed Pacific whiteleg shrimp, Penaeus vannamei in Tamil Nadu, India." *Aquaculture International*, 1-25.
- Debbarma, S., Yadav, N.K., Devi, N.C., **Chrisolite, B.**, Yirang, Y., Meena, D.K., Singh, S.K., Mehta, N.K. and Mocherla, B.P. 2024 Tilapia lake virus: understanding incidence, enhancing resistance, and exploring seaweed therapies. Aquaculture International. 28:1-27
- Narsale, S. A., **Chrisolite, B**., Sivasankar, P., Subash, P., Mansoor, M., Selvamagheswaran, M., Sourabh, D., Mageshkumar, P., Sampa, B., Kadam, R., (2023). Isolation, characterization, virulence genes, antimicrobial resistant genes, and antibiotic susceptibility pattern of Vibrio parahaemolyticus in relation to AHPND from shrimp farms in coastal districts of Tamil Nadu. *Aquaculture International*, 1-17.
- **Chrisolite, B**., Sugumar, G., Sivakumar, S. and Mercy, A.A. Detection of *Escherichia fergusonii* - an emerging pathogen harbouring drug resistant genes from seafood samples of Tamil Nadu, India. 2023. Indian Journal of Geo-Marine Sciences (IJMS), 52(08), pp.363-370. 10.56042/ijms.v52i08.11019.
- Sravani, K., Ganesan, P., Balasundari, S.,Muralidharan, N., **Chrisolite, B.** and Dhanapal, K. 2023. Impacts of seaweed incorporation on the nutritional,

structural, colour and textural properties of edible cone. Scientist. 2022;2(2):607-613.

- Kavinesan, K., Sugumar, G., **Chrisolite, B**., Parthiban, F., Sethupathy, M., Sudarsan, S, & Mansoor, M. 2023. Phenotypic and genotypic characterization of pathogenic *Escherichia coli* identified in resistance mapping of β lactam drug resistant isolates from seafood along Tuticorin coast. Environmental Science and Pollution Research, pp, 1-18. DOI **:** 10.1007/s11356-023-27008-y
- Sravani, K., Ganesan, P., Balasundari, S., Muralidharan, N., **Chrisolite, B**. and Dhanapal, K.2023. Effect of different drying methods on the nutritional, functional, and bioactive properties of *Gracilaria edulis* and *Ulva lactuca*. Journal of Coastal Research (39) 5
- Sravani, K., Ganesan, P., Balasundari, S., Muralidharan, N., **Chrisolite, B**. and Dhanapal, K. 2023. Optimizing the preparation of seaweed-based edible cones with response surface methodology. Current Science. 125 (12): 1381-1387.
- **Chrisolite, B**., Thiyagarajan, S.V. and Alavandi, S.V. 2019. Pulsotypes and Virulence of *Vibrio harveyi* from Shrimp Hatcheries in South East Coast of India. *Indian Journal of Coastal Research.* 86: 113-119.
- Sathish Kumar, K., **Chrisolite, B**., Vijayarahavan, V., Shanmugam, S.A. and Kaliyamurthi, V. 2019. Nutritional, textural and quality attributes of white and dark muscle of little tuna (*Euthynus affinis*). 2019. *Indian Journal of Marine Sciences*. 48, 205-211.

Student research guided as Chairman

Sl.No.	Year	M.F.Sc. / Ph.D.	Name of the student	Title of research
1	2020 - 2024	Ph.D.	P. Subash	Etiological analysis of white feces syndrome in *Penaeus vannamei* and its mitigation measures using phytogenic compounds
2	2020-2022	M.F.Sc.	R. S. Sri balaje	Evaluation of *Enterocytozoon hepatopenaei* (EHP) in biotic and abiotic factors of shrimp rearing system in Tamil Nadu
3	2020-2022	M.F.Sc.	P. Rakesh	Antiviral activity of natural compounds against Tilapia Lake Virus
4	2020-2022	M.F.Sc.	S. Gowtham	Isolation and characterization of virulence genes and antimicrobial resistance genes in motile *Aeromonas* sp from freshwater fishes of Tamil Nadu
5	2020-2022	M.F.Sc.	Merin Treesa Varghese	Screening for virulence genes and antimicrobial resistance genes in *Photobacterium damselae subsp. Damselae* from marine fishes of Tamil Nadu
6	2021-2023	M.F.Sc.	Narsale Swapnil Ananda	Virulence and antimicrobial resistance genes in *Vibrio parahaemolyticus* from shrimp farms of selected districts of Tamil Nadu in

				relation to Acute Hepatopancreatic Necrosis Disease
7	2022-2024	M.F.Sc.	S. Gobinath	Prophylactic effect of Gooseberry(*Phyllanthus asidus*) and Oregon (*Coleus amboinicus*) extracts against Tilapia lake Virus
8	Pursuing	Ph.D.	D. Evangelin Paripoorana	Immune response of freshwater fishes immunized with inactivated viral vaccines against Tilapia lake virus (TiLV)
9	Pursuing	Ph.D.	R. Prathisha	Effectiveness of green synthesised nanoparticles for the treatment of bacterial disease photobacterium damselae subsp. damselae
10	Pursuing	Ph.D.	Sourabh Debbarma	Assessment of the ameliorative effect of Murraya Koenigii extract on pendimethalin toxicity and Aeromonas hydrophila infection in Labeo rohita fingerlings
11	Pursuing	M.F.Sc	S. Mahalakshmi	Screening and characterization of lytic bacteriophages against *Photobacterium damselae* from various aquatic sources

Honours and Awards

- Sathish Kumar, K., **Chrisolite, B.,** Sugumar, G., Bindu, J. and Venkateshwarlu, G. 2018 Best Scientific paper award for the paper entitled "Shelf life extension of Tuna fillets by Gelatin and Chitosan based edible coating incorporated with clove oil" that appeared in Volume 55, No. 2 of the Fishery Technology journal by the Society of Fisheries Technologists on 02.08.2019.