Journal of Aquatic Biology & Fisheries



Published by

Department of Aquatic Biology & Fisheries University of Kerala



Journal of Aquatic Biology & Fisheries

(Journal of the Department of Aquatic Biology and Fisheries, University of Kerala, India)

A peer-reviewed and UGC CARE-listed journal.

2023 Volume 11 (2)

Bi-annual Journal

Citation: *J. Aquat. Biol. Fish.* ISSN 2321–340X

The Journal publishes invited review articles and original peer-reviewed research papers dealing with all aspects of Aquatic Biology and Fisheries, and appreciates multidisciplinary research papers on emerging and frontier areas of research in Aquatic Biology and Fisheries. The contributions can be in the form of original research papers and short communications relevant to freshwater, brackishwater and marine environments.

Editor-in-Chief

Prof. A. Biju Kumar

Executive Editor

Prof. Jayachandran K.V.

Editors

Dr. S.M. Raffi

Dr. Pramod Kiran, R.B.

Dr. Kurian Mathew Abraham

Dr. Mithun Sukumaran

Assistant Editor

Dr. Suvarna Devi, S.

Dr. Ravinesh, R.

Dr. Aneesh, P.T.



Published by

Department of Aquatic Biology and Fisheries

University of Kerala, Kariavattom, Thiruvananthapuram- 695 581, Kerala, India

Telefax: 0471 2308131 (Office); Email: jabf@keralauniversity.ac.in

Design & Layout: AbTec IT Solutions

Printed at: University Press, University of Kerala

Online version is available in the website http://www.jabf.in/

Contents

1	Azolla cultured using different manure as a fish feed ingredient Anagha Raju and Benno Pereira F.G.	1
2	Sex-ratio and size distribution of the sand crab, <i>Emerita</i> (Order: Decapoda; Family: Hippidae) from Thrikkunnapuzha beach of Alappuzha District, Kerala, India <i>Bindu L.</i> , <i>Sreeja</i> , <i>S.</i> , <i>Varsha</i> , <i>K.V.</i> , <i>Shameena Majeed and Deepa R.Pillai</i> .	6
3	A study on ichthyofauna in relation to physico-chemical parameters of Mannarappara todu, a tributary of Achenkovil river, southern Kerala <i>Deepika A.S. and Raju Thomas K.</i>	10
4	Tissue expression profiling, molecular and functional characterization of the antimicrob peptide β-defensin, <i>Mc</i> –BD, from Grey Mullet, <i>Mugil cephalus Dhanya Lenin K.L.</i> , <i>Rajeswari Vasu Iyer and Swapna P. Antony</i>	ial 13
5	Effects of perchlorate (rocket fuel) on liver and gonad tissues of a freshwater fish <i>Rasbora dandia</i> (Valenciennes, 1844) <i>Divya P.S. and Benno Pereira F.G.</i>	20
6	Spatial and temporal distribution of meiobenthos in Cochin backwaters, southwest coast of India Feebarani, J. and Damodaran, R.	28
7	Toxicity of trace metals in mud crab, <i>Scylla serrata</i> (Forsskal 1775) collected from Cochin backwaters, Kerala, India <i>Jyothirmaye Mohan, Biju A. and Bettina P. Alex.</i>	32
8	Current status of essential infrastructure and facilities in landing centers of Andaman group of islands, India <i>Kalita S., Ramees M.P.V. and Venu S.</i>	39
9	Intertidal ichthyofaunal diversity of Agatti island, Lakshadweep Mohammed Noushad K., Sathish Kumar P., Idreesbabu K.K. and Sureshkumar S.	44
10	Human health risk assessment and study of bioaccumulation of heavy metals in commercially important finfishes and shell fishes collected from Chennai coast, India <i>Monica R.D. and Inbaraj R.M.</i>	48
11	Biology of the Indian mackerel <i>Rastrelliger kanagurta</i> from south Andaman, India <i>Purkayastha</i> , A., Venu, S., Ramees, M.P.V., Kalita, S. and Kashyap, K.	56
12	Food and feeding of yellow tail scad <i>Atule mate</i> (Cuvier 1833) from Andaman waters, India <i>Ramees, M.P.V., Venu, S., Ameen, U., Parveen, F.P.S. and Kalita. S.</i>	62
13	Length-weight relationship and condition factor of yellow tail scad <i>Atule mate</i> (Cuvier 1833) from Andaman waters, India <i>Ramees, M.P.V., Venu, S., Ameen, U., Kalita. S. and Kashyap, K.</i>	67
14	A study on habitat preference of the hill stream loach <i>Mesonoemacheilus triangularis</i> (Day, 1873) from a forested stream of Pamba river in southern Kerala <i>Ruby Thomas and Raju Thomas K</i> .	71

15	Nine new records of Neogastropod snails (Mollusca: Gastropoda) from Kerala, southwest coast of India	
	Sary P.S. and Pramod Kiran R.B.	75
16	Molecular identification and characterization of Type I crustin isoforms from the hemocytes of penaeid shrimps, <i>Penaeus monodon</i> and <i>Fenneropenaeus indicus Sheethu Annie Vincent, Evelyn Thankachan C.K., Sonima K. Surendran and</i>	
	Swapna P. Antony	81
17	Minimum legal size- A study on pomfrets in fish markets of Kochi, Kerala, India <i>Shiny K.J.</i>	86
18	Physico-chemical characteristics and microbial status with special reference to zooplankton diversity of Sasthamkotta Ramsar Site, Kerala, India	
	Sinu, J.V., Anu Mary Johnson and Annies Joseph	89
	Instruction to authors	100