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 (1)

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

Research Articles

1	Leaves of <i>Rhizophora mucronata</i> hold quorum quenching moieties functional on the shrimp pathogen <i>Vibrio harveyi</i> as the prospective drug of choice in aquaculture <i>Ahna Ameer, Saranya, M., Lakshmi Gopakumar, Murray, Francis, Aravind, Usha K., Nejumal, K.K.</i> ,	
	Muneer, A. and Bright Singh, I.S.	1
2	Effects of abiotic changes on a pelagic Chaetognath <i>Zonosagitta bedoti</i> population of the Ganges Estuary, India	12
	Bhattacharya, P. and Paul, S.	14
3	Healthy seagrass habitats provide better support to the associated biodiversity in the Gulf of Mannar, India	
	Deepak S. Bilgi, Diraviya Raj, K., Mathews, G., Laju, R.L., Emmett, J.S. and Edward, J.K.P.	19
4	Invasion of alien mussel <i>Mytella strigata</i> (Bivalvia: Mytilidae) in the Gulf of Mannar, India and possible threats to the native biodiversity <i>Ravinesh, R., Laju R.L., Edward, J.K.P. and Biju Kumar, A.</i>	28
5	Seasonal variation and bioavailability of vital elements recommend <i>Terapon jarbua</i> as a source of	
J	sustainable nutrition	
	Ancy Thomas and Manju K.G.	35
5	Designing of effective substrate models from dried branches of plants for periphyton growth in aquatic ecosystem	
	Tabassum Fatima and Shivaji Chavan	42
7	Growth, survival and feed utilization of Pearl spot, <i>Etroplus suratensis</i> larvae co-fed with atremia and	
	micro diets of varying protein levels under controlled conditions Sayooj, P., Vijayagopal, P., Anusree, V.N., Prasanth, K.G. and Vijayan, K.K.	46
3	Assessment of pedunculate barnacle infestation on two non-commercial crab species of the genus Charybdis from the Alappuzha region of Arabian Sea, Kerala, South India <i>Arya, P. and Bindu, L.</i>	51
.		
9	Assessment of renosomatic index, histopathology and pathophysiology of the kidney of exotic freshwater fish, <i>Ctenopharyngodon idella</i> exposed to endosulfan <i>Renu Bala</i>	55
10	Acute toxic effect of sodium fluoride (NaF) on glycogen, protein and lipid contents in juvenile and	
	adult freshwater carp fish Labeo rohita Ravi Sekhar P. and Savithri Y.	60
11	Insecticidal properties of brown seaweed <i>Padina gymnospora</i> (Kützing) Sonder (Dictyotaceae) on larval instars of dengue vector <i>Aedes aegypti</i> L. and filarial vector <i>Culex quinquefasciatus</i> Say (Diptera: Culicidae)	
	Selvi, V., Arivoli, S. and Tennyson, S.	64
12	Effects of pollutants on fish gills and molecular damages of Mozambique tilapia, Oreochromis mossambicus (Peters, 1852) Puspal De and Madhumita J.	72
13	Morphometric variation of selected barbs from Koraput district, Eastern Ghats, southern Odisha, India	
	Roy, P., Naik, A.K. and Palita, S.K.	78
14	Broodstock management, induced breeding and the constraints in the larval rearing of an endemic Malabar butter catfish, <i>Ompok malabaricus</i> (Valenciennes, 1840)	
	Ariunan, V.M., Saieevan M.K. and Anvar, A.P.H.	87

15	Silver staining of nucleolar organizing regions for ploidy confirmation in Snowtrout Schizothorax richardsonii (Gray, 1832)	
	Toshi Baa, Bisht H.C.S. and Pandey, N.N.	95
16	Assessment of antibacterial and antioxidant activity of soft coral <i>Cladiella pachyclados</i> from Port Blair, Andamans	
	Samson, R., Tijo Cherian and Mohanraju, R.	99
17	The feeding process of the molluscivorous cone snail <i>Conus araneosus nicobaricus</i> Hwass, 1792 <i>Franklin, J.B.</i>	106
18	Diversity of Tonnoidea (Mollusca: Gastropoda) from Kerala, with new species records to the west coast of India	
	Preetha Karnaver and Biju Kumar, A.	113
19	Biometry and length-weight relationship of tomato hind grouper, <i>Cephalopholis sonnerati</i> (Valenciennes, 1828) (Serranidae) landed along the Vizhinjam coast of Kerala, India <i>Ponni J. Mohan, Anil M.K., Gopalakrishnan A., Shoji Joseph, Devika Pillai, Surya S. and Mariyam Fazula A.</i>	124
20	Macrobenthic polychaetes in Manakkudy Backwater, South West Coast of India Balasubramanian, S., Citarasu, T., Michael Babu, M., Lazarus, S., Renu, A. and Mary Mettilda Bai, S.	130
21	Proximate composition, fatty acid profile, elemental, zoo-chemical and FT-IR based functional group analysis of Meretrix casta and Donax cuneatus from Puducherry coastal waters, southeast coast of India <i>Gajalakshmi</i> , <i>A. and Ravitchandirane</i> , <i>V</i> .	147
Sh	ort Communication	
1	First record of Shorthead Fang Blenny, <i>Petroscirtes breviceps</i> (Perciformes: Blenniidae) from the Kavvayi Estuarine Wetland System, South West Coast of India <i>Ashwini Gopi, Asha C.V., Keerthana T.A., Jithin K., Dinesh K., Manoj Kumar B. and Sreekanth G.B.</i>	155
2	The effect of gold nanoparticles synthesized by <i>Curcuma longa</i> aqueous extract against liver toxicity induced by acetaminophen in <i>Oreochromis mossambicus</i>	1.50
	Dhanyaraj, D., Akhila Thomas A. and Shibu Joseph S.T.	160
3	Micropropagation for the conservation of <i>Rhizophora mucronata</i> Lam. <i>Ramsiya A., Divya S. and Rubin Jose A.S.</i> .	163
4	Ichthyofaunal diversity of Nizamsagar Reservoir, Kamareddy District, Telangana, India <i>Reddy, S.G., Dathrika, B.K. and Reddy, R.T.</i>	168
5	Preliminary observations on morphometry and length-weight relationship of <i>Decapterus macrosoma</i> (Bleeker, 1851) off Cochin coast, Kerala	
	Revathy, R. and Arun A.U.	173
6	Length-weight and Length-length relationships of seven ponyfish species from the Southwest coast of India	
	Sheela, H.M. and Biji, G.D.	179
7	Length-weight and width-weight relationship of freshwater crabs <i>Oziotelphusa bouvieri</i> and <i>Spiralothelphusa wuellerstorfi</i> (family: gecarcinucidae) of Puzhal lake, Chennai, Tamil Nadu <i>Sruthi</i> , <i>H. and Thirunavukkarasu</i> , <i>N</i>	183
		100
8	Ecology and diversity of the mangroves on diverse waterways of Coringa Wildlife Sanctuary, India <i>Adari, A.A. and Surisetti, R.B.</i>	188
9	Length-weight relationship, sex ratio, condition and relative condition factor of Giant trevally (<i>Caranx ignobilis</i>)	
	Elezabeth Tomy, Abdussamad E.M., Toji Thomas and Ashly Gopinath	193
	Information to authors	198