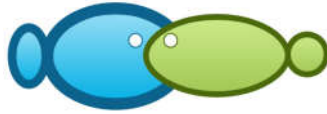


AACL Bioflux, Volume 16(2)

April, 30, 2023



Contents

Nofrizal, Thamrin, Saam Z., Jonnerie R., Karnila R., Fatmawati R., Ramses, Raza'i T. S., 2023 Dominant fish species in submerged floodplains and the adjacent river in the Buaya Lake, Indragiri River basin, Sumatra Island, Indonesia. *AACL Bioflux* 16(2):709-720.

Mulyadi H. A., Hehakaya S., La Imu, 2023 Short-term changes in abundance of zooplankton (with notes on a swarm of Appendicularia) in Ambon Bay, Indonesia. *AACL Bioflux* 16(2):721-732.

Fauzi M., Prianto E., Hendrizal A., Mardalisa, 2023 Morphological and genetic characteristics (mitochondrial DNA) as a basis for determining the direction of giant prawn (*Macrobrachium rosenbergii*) resources management in Riau Province, Indonesia. *AACL Bioflux* 16(2):733-742.

Yuliana, Mutmainnah, Irfan M., Nasir A., Djamhur M., 2023 Phytoplankton quality based on species composition in the Kastela waters, Ternate, North Maluku, Indonesia. *AACL Bioflux* 16(2):743-752.

Rahim A., Soeprbowati T. R., Putranto T. T., 2023 Assessment of mangrove biodiversity and community structure as a basis for sustainable conservation and management plan in Tambakbulusan, Demak, Central Java. *AACL Bioflux* 16(2):753-767.

Herawati V. E., Elfitasari T., Darmanto Y. S., Anggraeni N., Windarto S., 2023 Effect of different ratios of maggot meal (*Hermetia illucens*) on growth performance and body composition of vannamei shrimp (*Litopennaeus vannamei*) post larvae. *AACL Bioflux* 16(2):768-779.

Prasetiawan A., 2023 Towards a professional service: Improvement of infrastructures and facilities of traditional shipping business in Tanjung Emas Port, Semarang, Indonesia. *AACL Bioflux* 16(2):780-787.

Effendi I., Agustatik S., Rifai M., Ernando H., Batubara U. M., 2023 Ectoparasite attack on star pomfret (*Trachinotus blochii*) at Batam Mariculture Center, Indonesia. *AACL Bioflux* 16(2):788-796.

Samad A. P. A., Afrah J., Baihaqi B., 2023 The use of idle shrimp ponds for intensive grouper cultivation in the eastern coast of Aceh. *AACL Bioflux* 16(2):797-804.

Nuryanto A., Bhagawati D., Rofiqoh A. A., 2023 Barcoding of Sparidae collected during east monsoon season in the eastern Indian Ocean south of Java, Indonesia. *AACL Bioflux* 16(2):805-817.

Masyuk M., Smolianinov K., Salyha Y., Mudrak D., Broda N., Vishchur O., Zabytivskiy Y., Savchuk L., 2023 The changes of fatty acid profile of some tissues of female carp after feeding of vitamin and mineral supplement. *AACL Bioflux* 16(2):818-824.

- Wijaya I. M. S., Sugiana I. P., Wijana I. M. S., As-syakur A. R., 2023 Comparison of mangrove vegetation in natural and ex-fisheries area in Benoa Bay, Bali. *AACL Bioflux* 16(2):825-836.
- Lutfi L., Sudrajat A. O., Carman O., Wahjuningrum D., Widanarni W., Boediono A., 2023 Phytochemical screening and toxicity analysis of South Pacific palm (*Biophytum umbraculum*) ethanolic extract for potential utilization in aquaculture. *AACL Bioflux* 16(2):837-852.
- Elfitasari T., Herawati V. E., Windarto S., 2023 Digitalizing small-scale fish farmers (SSFFs): utilizing WhatsApp group as virtual extension workers. *AACL Bioflux* 16(2):853-863.
- Susanto G. N., Budi K. L., Antoro S., Purnomowati R., Hadi S., 2023 The effects of synbiotics and various herbs during the *Photobacterium damsela* challenge test on the histopathology of seabass (*Lates calcarifer*) internal organs. *AACL Bioflux* 16(2):864-877.
- Salosso Y., Ressie J. D., Ridwan, Foes Y. W., Pasaribu W., 2023 Bacteria *Aeromonas hydrophilla*-induced disease treatment in catfish (*Clarias sp.*) culture, with a combination of honey and asthma plant *Euphorbia hirta*. *AACL Bioflux* 16(2):878-886.
- Tahir I., Mantiri D. M. H., Rumengan A. P., Wahidin N., Lumingas L. J. L., Kondoy K. F. I., Montolalu R. I., Kepel R. C., Harahap Z. A., 2023 Variation of carbon content in sediments of seagrass ecosystems based on the presence of seagrass species on Mare Island, Indonesia. *AACL Bioflux* 16(2):887-898.
- Taeran I., Abdullatif Z., Marsaoli M. K., Harahap Z. A., 2023 Productivity and feasibility of handline tuna business based at the Integrated Marine and Fisheries Center in Morotai Island. *AACL Bioflux* 16(2):899-908.
- Mendoza D. M., Aquino M. G. B., Tandoc M. P., Brinas K. B. B., Reyes D. A., Tamayo M. B., Reyes A. T., 2023 Water quality, plankton community and primary productivity of Langiran Lake in Bayambang, Pangasinan, Philippines. *AACL Bioflux* 16(2):909-928.
- Kurniawati V. R., Birmingham R. W., Murphy A. J., Yuwandana D. P., Wahyuningrum P. I., Wiyono E. S., Novita Y., Iskandar B. H., Uyan E., 2023 Energy consumption of traditional fishing vessels in Palabuhanratu, Indonesia. *AACL Bioflux* 16(2):929-944.
- Suharti R., Maulita M., Setiawan F., Zulkifli D., Rachmad B., Hermawan M., Sayuri M., Nugraha E., 2023 Status of the *Thunnus albacares* fishery in the Fisheries Management Area (FMA) 714, Banda Sea, Indonesia. *AACL Bioflux* 16(2):945-956.
- Athaa F. F., Djumanto, Partosuwiryo S., Probosunu N., 2023 Correlation of otolith morphometrics with total length and weight of shortfin scad (*Decapterus macrosoma* Bleeker, 1851) in the Special Region of Yogyakarta. *AACL Bioflux* 16(2):957-969.
- Musadar, Nuryadi A. M., 2023 Young farmer empowerment model based on freshwater fishery business in Southeast Sulawesi Province, Indonesia. *AACL Bioflux* 16(2):970-978.
- Syahrul S., Dewita D., Effendi I., Suwondo S., 2023 The use of striped catfish (*Pangasianodon hypophthalmus*) abdominal fat as a raw material for highly nutritional fish oil. *AACL Bioflux* 16(2):979-988.
- Ruli F., Prihantini N. B., Likumahua S., Rugebregt M. J., Opier R. D. A., Widodo T., Abdul M. S., Pelupesy I. A. H., Romdon A., Siallagan Z. L., 2023 Abundance and biovolume of gelatinous zooplankton in Inner Ambon Bay during the northwest monsoon 2022. *AACL Bioflux* 16(2):989-999.

- Wijayanto D., 2023 The optimization of growth, survival rate, feeding efficiency and benefit cost ratio of Asian seabass reared in freshwater media with fish feed enrichment using Javanese turmeric (*Curcuma xanthorrhiza*). AACL Bioflux 16(2):1000-1006.
- Mendoza D. M., Aquino M. G. B., Reyes A. T., 2023 Assessment of Enterococcus in fish and its environment: a study in tilapia farms operating in the BUDAMASA areas of Minalin, Pampanga, Philippines. AACL Bioflux 16(2):1007-1024.
- Tampus A. D., Bungcasan A. S. G., Inte S. B., Inotao P. R. V., Longcob D. J. H. E., Salise P. C. K. G., Salig R. C., Sinco A. L., 2023 Abundance and diversity of mangroves in Kinoguitan, Misamis Oriental, Philippines. AACL Bioflux 16(2):1025-1036.
- Wijayanto D., Nugroho R. A., Kurohman F., Nursanto D. B., 2023 The effects of turmeric-enriched feed (*Curcuma longa* Linn.) on the growth, survival rate and profitability of Asian seabass cultivation in freshwater media. AACL Bioflux 16(2):1037-1043.
- Sari R. W., Rahardjo S., Saputra A., Murniasih S., Suryaningrum L. H., Samsudin R., 2023 Growth performance, survival rate, cannibalism of Asian redtail catfish *Hemibagrus nemurus* juvenile, with different stocking density. AACL Bioflux 16(2):1044-1054.
- Aquino M. G. B., Mendoza D. M., Reyes A. T., 2023 Quantitative analysis of *Vibrio spp.* and environmental quality assessment of tilapia grow-out ponds in Minalin, Pampanga, Philippines. AACL Bioflux 16(2):1055-1068.
- Hastuti E. D., Izzati M., Prihastanti E., 2023 Water uptake and salt accumulation under *Rhizophora stylosa* seedling planted in controlled salinity and inundation levels. AACL Bioflux 16(2):1069-1076.
- Motik C., Chegiani F., Blaghen M., 2023 The biosorption potential of the algal biomass from *Plocamium cartilagineum* for the removal of the reactive red dye. AACL Bioflux 16(2):1077-1091.
- Arief M. C. W., Sahidin A., Apriliani I. M., Nurruhwati I., Zahidah Z., Muhammad G., Komaru A., 2023 Native Indonesian pond mussel *Pilsbryconcha exilis* and alien *Sinanodonta woodiana*: the potential effect on the future conservation and economic benefit. AACL Bioflux 16(2):1092-1104.
- Effendi I., Prayogi M. R., Mulyadi A., 2023 Antibacterial activity of *Eucheuma spinosum* extract against *Vibrio alginolyticus* and *Aeromonas hydrophila*. AACL Bioflux 16(2):1105-1113.
- Corpuz M. N. C., Espaldon M. V. O., 2023 Socio-ecological system assessment for conservation planning in riverine and mangrove fishery areas in Bataan, Philippines. AACL Bioflux 16(2):1114-1126.
- Hayati R. L., Hakim L., Nurjannah, Prihanto A. A., 2023 Improvement of duckweed (*Azolla microphylla*) nutrition by *Leuconostoc sp.* isolated from Nile tilapia (*Oreochromis niloticus*). AACL Bioflux 16(2):1127-1135.
- Setianto T., Wisudo S. H., Imron M., Wiyono E. S., Novita Y., 2023 Implementation of the Indonesia National Policy for Crew Certification of Non-Convention Fishing Vessel after the ratification of STCW-F 1995 (case study in Central Java Province of Indonesia). AACL Bioflux 16(2):1136-1144.

Utomo B. A., Effendi H., Darmawangsa G. M., Akbar H., 2023 Excess nutrient removal from fish culture using aquaponics system: A laboratory scale. *AACL Bioflux* 16(2):1145-1155.

Suparno S., Deswati D., Pardi H., 2023 Water quality for grouper farming in Mandeh Bay waters, Pesisir Selatan, Indonesia. *AACL Bioflux* 16(2):1156-1165.

Mulya M. B., Aldyza N., Afkar A., 2023 The prevalence of coral health issues in the conservation area of Benteng, Weh Island, Sabang, Indonesia. *AACL Bioflux* 16(2):1166-1176.

**International Standard Serial Number
Online ISSN 1844–9166; Print ISSN 1844-8143**

Published by Bioflux – six issues per year (bimonthly); in cooperation with The Natural Sciences Museum Complex (Constanta, Romania)

The journal includes original papers, short communications, and reviews on Aquaculture (Biology, Technology, Economics, Marketing), Fish Genetics and Improvement, Aquarium Sciences, Fisheries, Ichthyology, Aquatic Ecology, Conservation of Aquatic Resources and Legislation (in connection with aquatic issues) from wide world.

Editor-in-Chief

Petrescu-Mag I. Valentin: USAMV Cluj, Cluj-Napoca, University of Oradea (Romania)
Gavriloaie Ionel-Claudiu (alternate): SC Bioflux SRL, Cluj-Napoca (Romania).

Editors

Abdel-Rahim Mohamed M.: National Institute of Oceanography and Fisheries, Alexandria (Egypt)
Adascalitei Oana: Maritime University of Constanta, Constanta (Romania)
Amira Aicha Beya: Badji Mokhtar Annaba University, Annaba (Algeria)
Ansori Arif Nur Muhammad: Uttaranchal University, Dehradun (India)
Arockiaraj A. Jesu: SRM University, Chennai (India)
Appelbaum Samuel: Ben-Gurion University of the Negev (Israel)
Baharuddin Nursalwa: Universiti Malaysia Terengganu, Terengganu (Malaysia)
Balint Claudia: USAMV Cluj, Cluj-Napoca (Romania)
Boaru Anca: USAMV Cluj, Cluj-Napoca (Romania)
Bora Florin D.: USAMV Cluj, Cluj-Napoca (Romania)
Breden Felix: Simon Fraser University (Canada)
Burny Philippe: Universite de Liege, Gembloux (Belgium)
Caipang Cristopher M.A.: Temasek Polytechnic (Singapore)
Chapman Frank: University of Florida, Gainesville (USA)
Creanga Steofil: USAMV Iasi, Iasi (Romania)
Cristea Victor: Dunarea de Jos University of Galati, Galati (Romania)
Das Simon Kumar: Universiti Kebangsaan Malaysia, Bangi, Selangor (Malaysia)
Dimaggio Matthew A.: University of Florida (USA)
Georgescu Bogdan: USAMV Cluj, Cluj-Napoca (Romania)
Ionescu Tudor: University of Oradea, Oradea (Romania)
Karayucel Ismihan: University of Sinop, Sinop (Turkey)
Khamesipour Faham: Shiraz University, Shiraz (Iran)
Kosco Jan: Presov University, Presov (Slovakia)
Kovacs Eniko: USAMV Cluj, Cluj-Napoca (Romania)
Kucska Balázs: Hungarian University of Agriculture and Life Sciences, Kaposvár (Hungary)
Mehrad Bahar: Gorgan University of Agricultural Sciences and Nat. Res. (Iran)
Miclaus Viorel: USAMV Cluj, Cluj-Napoca (Romania)
Molnar Kalman: Hungarian Academy of Sciences, Budapest (Hungary)
Mousavi-Sabet Hamed: University of Guilan, Someh Sara, Guilan (Iran)
Muchlisin Zainal Abidin: Universiti Sains (Malaysia), Syiah Kuala University (Indonesia)
Muntean George Catalin: USAMV Cluj, Cluj-Napoca (Romania)
Nowak Michal: University of Agriculture in Krakow (Poland)
Nyanti Lee: Universiti Malaysia Sarawak, Sarawak (Malaysia)
Odagiu Antonia: USAMV Cluj, Cluj-Napoca (Romania); BENA, Thessaloniki (Greece)
Olivotto Ike: Universita Politecnica delle Marche, Ancona (Italy)
Oroian Firuta Camelia: USAMV Cluj, Cluj-Napoca (Romania)
Papuc Tudor: USAMV Cluj, Cluj-Napoca (Romania)
Parvulescu Lucian: West University of Timisoara (Romania)
Pasarini Benone: USAMV Iasi, Iasi (Romania)
Pattikawa Jesaja Ajud: Pattimura University, Ambon (Indonesia)
Petrescu Dacia Crina: Babes-Bolyai University, Cluj-Napoca (Romania), Universite de Liege, Gembloux (Belgium)
Petrescu-Mag Ruxandra Malina: Babes-Bolyai University, Cluj-Napoca (Romania), Universite de Liege, Gembloux (Belgium)
Petrovici Milca: West University of Timisoara (Romania)
Pratasik Silvester Benny: Sam Ratulangi University, Manado (Indonesia)
Proorocu Marian: USAMV Cluj, Cluj-Napoca (Romania)
Putri A. R. Sahni: Hasanuddin University, Makassar (Indonesia)
Ray Sunuram: Khulna University (Bangladesh)
Rhyne Andrew: Roger Williams University; New England Aquarium, Boston (USA)
Ruchin Alexander B.: Joint Directorate of the Mordovia State Nature Reserve and National Park «Smolny», Saransk (Russia)
Safirescu Calin: USAMV Cluj, Cluj-Napoca (Romania)
Sándor Zsuzsanna J.: National Agriculture Research and Innovation Center, Gödöllő (Hungary)
Serrano Jr. Augusto E.: University of the Philippines Visayas (Philippines)

Sima Nicusor-Flavius: USAMV Cluj, Cluj-Napoca (Romania); BENA, Thessaloniki (Greece)
Tlusty Michael F.: New England Aquarium, Boston (USA)
Vesa Stefan Cristian: Iuliu Hatieganu UMF, Cluj-Napoca (Romania)
Vintila Iuliana: Dunarea de Jos University of Galati, Galati (Romania)
Wariaghli Fatima: University Mohammed V in Rabat, Rabat (Morocco)
Yusli Wardiatno: Bogor Agricultural University, Bogor (Indonesia).

Contact Publisher

SC Bioflux SRL, 54 Ceahlău Street, Cluj-Napoca, 400488, Romania, European Union.

Ioan Valentin Petrescu-Mag, e-mail: zoobiomag2004@yahoo.com

Note that there is also an electronic version of the journal. You may download the fulltext version of AACL Bioflux – Volume 16/2023 from <http://www.bioflux.com.ro/aac/> – open access.

All articles included in AACL Bioflux are peer reviewed (double blind peer-review is used). Each published article was seen before by two reviewers; the two peer-reviews are made independently.

AACL Bioflux has a publishing agreement, or is indexed, abstracted or full text reproduced by/in the following scholar/scientific databases, search engines, libraries, publishers:

ISI Web of Science – via CABI and Zoological Record
Zoological Record (direct submission/coverage)
Scopus - Elsevier; Sciverse
Scimago - Journal Rank
CAB International - CAB Abstracts
ProQuest
China Educational Publications Import & Export Corporation - SOCOLAR
Ulrich's Periodicals Directory
CAB Direct (as part of CABI)
Wolters Kluwer - Ovid LinkSolver
Polish Ministry of Science and Higher Education – 2.00 pts/article
The National Science Digital Library - NSDL
The University of Hong Kong Libraries – HKUL Database
Deutsche Nationalbibliothek - ZDB Database
State Library of Ohio - OhioLINK Database
Smithsonian Institution Libraries
Biblioteka Główna Uniwersytetu Medycznego w Poznaniu
Google Scholar, Academic
Athabasca University - ICAAP Database
University of Southampton - ROAR
Georgetown University Library - NewJour
Università degli Studi di Modena e Reggio Emilia – SBA, Risorse Elettroniche
Simon Fraser University - PKP
University of Tsukuba - Tulips Database
Teikyo Scientific University- NTU Database
LIS Links: Link Library of Open Access English Language Journals
Fayetteville State University - Charles W. Chesnutt Library
Vrije Universiteit Brussel - VUB e-journal list
Russian CJDB
Universitat Giessen - Digitale Bibliothek
Pace University Library
Tel Aviv University. Gitter-Smolarz Library of Life Sciences and Medicine
MALMAD – Israel Center for Digital Information Services
California State University – Monterey Bay Library
Réseau des Bibliothèques de l'Université Joseph Fourier et de l'Institut National Polytechnique de Grenoble
University of Saskatchewan – University Library (Electronic Journals)
YanXue Resource – YXRES
Feng Chia University – Electronic Library
Main Library of the University of Agriculture in Krakow
SUMMON Database
uOttawa Library
Università di Roma Tor Vergata - Digital Library
UTC Lupton Library
University of Notre Dame - Hesburgh Libraries
Guilford College - Hege Library
Eastern Michigan University Library - Periodicals locator
Universiteitsbibliotheek Gent - Tijdschriften
Chung Yuan Christian University Library
ArgosBiotech
Ecole Polytechnique Federale de Lausanne - Library
Rowan University – Library Services
James Cook University Library – Australia
Ministerstwo Nauki i Szkolnictwa Wyższego Warszawa
Kun Shan University Library



CCG-IBT Biblioteca
Reference Zone – Nigeria
Dayang Journal System
Riley-Hickingbotham Library
Politechnika Wroclawska
Universite Paris Diderot – Revues Electroniques
ERSA – Chinese Library.

Our collaborators



SciVerse Scopus is the world's largest abstract and citation database of peer-reviewed literature and quality web sources. Contains 41 million records, 70% with abstracts; Nearly 18,000 titles from 5,000 publishers worldwide; 70% of content is pulled from international sources; Includes over 3 million conference papers; Provides 100% Medline coverage; Offers sophisticated tools to track, analyze and visualize research.

Socolar

The free scholastic search engine is established by China Educational Publications Import and Export Corporation (CEPIEC). Under the leadership of China Ministry of Education, CEPIEC is the only company dealing with publication ex-
im business in the education field. CEPIEC has been serving colleges and universities, research institutions and public libraries in China for more than 20 years, providing them with excellent academic resources from all over the world.
Contact: No 41 Zhong Guan Cun Street, Haidian District, Beijing, P.R.China 100080.
Tel: +86 (0)10 6251 4068;
e-mail: li_yanxia@cepiec.com.cn
Fax: +86 (0)10 6251 4068 www.cepiec.com.cn



CABI is a not-for-profit international organization that improves people's lives by providing information and applying scientific expertise to solve problems in agriculture and the environment. Their mission and direction is influenced by their member countries who help guide the activities they undertake. These include scientific publishing, development projects and research, and microbial services. 2010 marked 100 years of CABI. Since its beginnings as an entomological committee in 1910, it then developed into a Commonwealth organization before becoming a truly international service in agricultural information, pest identification and biological control in the mid 1980s.

Zoological Record (part of Biosis)

ION contains the organism names related data gathered from the scientific literature for Thomson Reuters' *Zoological Record*® database. Viruses, bacteria and plant names will be added from other Thomson Reuters databases such as *BIOSIS Previews*® and *Biological Abstracts*®



THOMSON REUTERS

Index to Organism Names (ION)



ELSEVIER PRODUCTS

Elsevier B.V., Bibliographic Databases, Radarweg 29, 1043 NX Amsterdam, The Netherlands.



