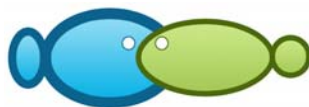


# AACL Bioflux, Volume 12(1)

## February 28, 2019



### Contents

Suardi, Wiryawan B., Taurusman A. A., Santoso J., Riyanto M., 2019 Dynamics of ornamental fish catch in Bio FADs, spatially and temporary, at Uloulo coastal waters, Luwu District, South Sulawesi, Indonesia. AAAL Bioflux 12(1):1-13.

Fahresa N. S., Wahyu R. I., Riyanto M., 2019 Composition of blue swimming crab *Portunus pelagicus* and horseshoe crab Limulidae on the gillnet fishery in Mayangan Waters, Subang, West Java. AAAL Bioflux 12(1):14-24.

Wijayanto D., Sardiyatmo, Setyanto I., Kurohman F., 2019 Bioeconomic analysis of the impact of 'cantrang' (Danish seine) toward gill net in Pati regency, Indonesia. AAAL Bioflux 12(1):25-33.

Purnama A. A., Mubarak J., Daruwati I., Roslim D. I., Elvyra R., 2019 First report of morphological and molecular identification of greater scissortail *Rasbora caudimaculata* from Rokan Hulu District, Riau Province, Indonesia. AAAL Bioflux 12(1):34-41.

Kusmini I. I., Radona D., Ath-Thar M. H. F., Putri F. P., Kristanto A. H., Gustiano R., 2019 Phenotypic diversity in three generations of domesticated Asian redbtail catfish, *Hemibagrus nemurus* (Valenciennes, 1840) in Indonesia. AAAL Bioflux 12(1):42-50.

Ihsan Y. N., Subiyanto, Pribadi T. D. K., Schulz C., 2019 Nitrogen assimilation potential of seaweed (*Gracilaria verrucosa*) in polyculture with Pacific white shrimp (*Penaeus vannamei*). AAAL Bioflux 12(1):51-62.

Cabiles C. D., Soliman V. S., 2019 Reproduction-temperature nexus influencing spawning of pectinids in tropical and temperate waters. AAAL Bioflux 12(1):63-72.

Sim S. F., Apendi A., Nyanti L., Ling T. Y., Grinang J., Lee K. S. P., Ganyai T., 2019 Experimental study of mercury accumulation in juvenile cyprinid fish *Barbonymus schwanenfeldii* and *Tor tambroides*, exposed through water and feed. AAAL Bioflux 12(1):73-80.

Lumenta C., Monijung R., Rampengan R. M., 2019 Nacre characterization of pearl oysters *Pinctada margaritifera* from Arakan waters, North Sulawesi, Indonesia. AAAL Bioflux 12(1):81-86.

Kepel R. C., Lumingas L. J. L., Watung P. M. M., Mantiri D. M. H., 2019 Community structure of seaweeds along the intertidal zone of Mantehage Island, North Sulawesi, Indonesia. AAAL Bioflux 12(1):87-101.

Supartono, Tambun R., Sutisna D. H., Mualim R., Krisnafi Y., 2019 Forecasting potential fishing areas in fisheries management area 718 (FMA-718) in Indonesia using GIS and Monte Carlo simulation. AAAL Bioflux 12(1):102-120.

Billah M. M., Uddin M. K., Samad M. Y. A., Hassan M. Z. B., Anwar M. P., Kamal A. H. M., Shahjahan M., Asif A. A., 2019 Fertilization effects on the growth of common carp (*Cyprinus carpio*) and Nile tilapia (*Oreochromis niloticus*) and rice yields in an integrated rice-fish farming system. *AACL Bioflux* 12(1):121-132.

Ardiansyah, Amrullah, Jaya A. A., Dahlia, Nurhayati, 2019 Isolation and identification of facultative mixotrophic ammonia-oxidizing bacteria from Bone Regency, Indonesia. *AACL Bioflux* 12(1):133-142.

Sofia L. A., Nurlianti S., 2019 The economic value of the resource utilization of wetlands: comparative study of beje fisheries in North Hulu, Sungai Regency, South Kalimantan, Indonesia. *AACL Bioflux* 12(1):143-150.

Sofian A., Kusmana C., Fauzi A., Rusdiana O., 2019 Ecosystem services-based mangrove management strategies in Indonesia: a review. *AACL Bioflux* 12(1):151-166.

Budiyanto, Kasim F., Abadi S. Y., 2019 Growth and carrageenan content of local and tissue culture seed of *Kappaphycus alvarezii* cultivated in floating cage. *AACL Bioflux* 12(1):167-178.

Redzuan N. S., Milow P., 2019 Skeletonema costatum of mangrove ecosystem: its dynamics across physico-chemical parameters variability. *AACL Bioflux* 12(1):179-190.

Pinandoyo, Hutabarat J., Darmanto, Radjasa O. K., Herawati V. E., 2019 Growth and nutrient value of tilapia (*Oreochromis niloticus*) fed with *Lemna minor* meal based on different fermentation time. *AACL Bioflux* 12(1):191-200.

Afandi M. F., Widowati I., Ambariyanto A., 2019 Zinc content in water, sediment and soft tissue of green mussel *Perna viridis* in Demak, Indonesia. *AACL Bioflux* 12(1):201-208.

Hidayat R., Zainuddin M., Putri A. R. S., Safruddin, 2019 Skipjack tuna (*Katsuwonus pelamis*) catches in relation to chlorophyll-a front in Bone Gulf during the southeast monsoon. *AACL Bioflux* 12(1):209-218.

Kalor J. D., Indrayani E., Akobiarek M. N. R., 2019 Fisheries resources of mangrove ecosystem in Demta Gulf, Jayapura, Papua, Indonesia. *AACL Bioflux* 12(1):219-229.

Paul A. K., Ray S., Islam M. S., Bashak S. K., Noor N. M., De M., Das S. K., 2019 A survey on variation and availability of fishing gears and crafts in Tulsiganga river, Bangladesh. *AACL Bioflux* 12(1):230-238.

Manoppo H., Tumbol R. A., Sinjal H. J., Novitarizky I. A., 2019 The use of probiotic isolated from Sangkuriang catfish (*Clarias gariepinus* var. Sangkuriang) intestine to improve growth and feed efficiency of carp, *Cyprinus carpio*. *AACL Bioflux* 12(1):239-245.

Nurjirana, Burhanuddin A. I., Haris A., 2019 Diversity of penja fish (amphidromous goby) in Leppangan River, West Sulawesi, Indonesia. *AACL Bioflux* 12(1):246-249.

Rudianto, Larasati A. P., Yusuf F. R., Parawiranata W., 2019 A comprehensive assessment of the role of stakeholders in the management of Wanamina Island in Sidoarjo, East Java Province, Indonesia. *AACL Bioflux* 12(1):250-260.

Caipang C. M. A., Mabuhay-Omar J., Gonzales-Plasus M. M., 2019 Plant and fruit waste products as phytogenic feed additives in aquaculture. *AACL Bioflux* 12(1):261-268.

Paulus C. A., Pellokila M. R., Sobang Y. U. L., Azmanajaya E., 2019 The alternative livelihood development strategy in order to improve local fishermen revenue in the border region of Indonesia and Timor Leste. *AACL Bioflux* 12(1):269-279.

Cahyanti W., Soelistyowati D. T., Carman O., Kristanto A. H., 2019 Artificial spawning and larvae performance of three Indonesian mahseer species. *AACL Bioflux* 12(1):280-288.

Darmarini A. S., Soewardi K., Prartono T., Hakim A. A., Nursiyamah S., Wardiatno Y., 2019 New distribution record of the soldier crab, *Dotilla myctiroides* (Milne-Edwards) from Lubuk Damar Coast, Aceh Province, Indonesia. *AACL Bioflux* 12(1):289-297.

Toutou M. M., Osman A. G., M., Farrag M. M. S., Badrey A. E. A., Moustafa M. A., 2019 Growth performance, feed utilization and gut histology of monosex Nile tilapia (*Oreochromis niloticus*) fed with varying levels of pomegranate (*Punica granatum*) peel residues. *AACL Bioflux* 12(1):298-309.

Vatria B., Wiryawan B., Wiyono E. S., Baskoro M. S., 2019 The resilience of small fishermen's livelihood in Maya Island, Indonesia; a case study on purse seine capture fisheries. *AACL Bioflux* 12(1):310-319.

Susanto A., Hutabarat J., Anggoro S., Subandiyono, 2019 The effects of dietary protein level on the growth, protein efficiency ratio and body composition of juvenile kelabau (*Osteochilus melanopleurus*). *AACL Bioflux* 12(1):320-326.

Mustakim M., Anggoro S., Purwanti F., Haeruddin, 2019 Length-weight relationships and condition factor of *Anabas testudineus* in the Semayang Lake, East Kalimantan, Indonesia. *AACL Bioflux* 12(1):327-337.

Hasan V., Soemarno, Widodo M. S., Wiadnya D. G. R., 2019 First record of *Osteochilus vittatus* (Cypriniformes: Cyprinidae) in Madura Island, Indonesia. *AACL Bioflux* 12(1):338-342.

Sari Y. D., Syaukat Y., Kasumastanto T., Hartoyo S., 2019 Economic impact of moratorium of foreign fishing vessel policy in Arafura Sea, Indonesia. *AACL Bioflux* 12(1):343-354.

Wahyudin I., Kamal M. M., Fahrudin A., Boer M., 2019 Length-weight relationship and reproductive size of silky shark *Carcharhinus falciformis* and scalloped hammerhead shark *Sphyrna lewini* collected in Tanjung Luar fish landing port, East Lombok, Indonesia. *AACL Bioflux* 12(1):355-362.

Zakaria I. J., Arma S. P., Nurdin J., Febria F. A., 2019 Sexual reproduction pattern of *Donax purpurascens* (Gmelin, 1791) in Tiku Beach, Agam District, West Sumatra, Indonesia. *AACL Bioflux* 12(1):363-372.

Sumilat D. A., Rimper J. R. T. S. L., Opa E. T., Kurnia D., 2019 The potential of marine ascidians as sources of natural antioxidant and antibacterial agents from Manado, North Sulawesi. *AACL Bioflux* 12(1):373-377.

Nugroho T. S., Fahrudin A., Yulianda F., Bengen D. G., 2019 Structure and composition of riverine and fringe mangroves at Muara Kubu protected areas, West Kalimantan, Indonesia. *AACL Bioflux* 12(1):378-393.

MSc in Sustainable Development and Environmental Management. A 2-year full time programme taught in English. p.394.

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

**Published by Bioflux – six issues/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: SC Bioflux SRL, Cluj-Napoca (Romania).

**Editors**

Adascalitei Oana: Maritime University of Constanta, Constanta (Romania)  
Amira Aicha Beya: Badji Mokhtar Annaba University, Annaba (Algeria)  
Arockiaraj A. Jesu: SRM University, Chennai (India)  
Appelbaum Samuel: Ben-Gurion University of the Negev (Israel)  
Baharuddin Nursalwa: Universiti Malaysia Terengganu, Terengganu (Malaysia)  
Boaru Anca: USAMV Cluj, Cluj-Napoca (Romania)  
Botha Miklos: Bioflux SRL, 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)  
Cocan Daniel: USAMV Cluj, Cluj-Napoca (Romania)  
Coroian Cristian: USAMV Cluj, Cluj-Napoca (Romania)  
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)  
Firica Cristian Manuel: Spiru Haret University Bucharest, Craiova (Romania)  
Georgescu Bogdan: USAMV Cluj, Cluj-Napoca (Romania)  
Karayucel Ismihan: University of Sinop, Sinop (Turkey)  
Khamesipour Faham: Shiraz University, Shiraz (Iran)  
Kosco Jan: Presov University, Presov (Slovakia)  
Mehrad Bahar: Gorgan University of Agricultural Sciences and Nat. Res. (Iran)  
Miclaus Viorel: USAMV Cluj, Cluj-Napoca (Romania)  
Mihociu Tamara: R&D National Institute for Food Bioresources (Romania)  
Molnar Kalman: Hungarian Academy of Sciences, Budapest (Hungary)  
Muchlisin Zainal Abidin: Universiti Sains (Malaysia), Syiah Kuala University (Indonesia)  
Nowak Michal: University of Agriculture in Krakow (Poland)  
Nyanti Lee: Universiti Malaysia Sarawak, Sarawak (Malaysia)  
Olivotto Ike: Universita Politecnica delle Marche, Ancona (Italy)  
Oroian Firuta Camelia: USAMV Cluj, Cluj-Napoca (Romania)  
Papadopol Nicolae: Natural Sciences Museum Complex, Constanta (Romania)  
Papuc Tudor: USAMV Cluj, Cluj-Napoca (Romania)  
Parvulescu Lucian: West University of Timisoara (Romania)  
Pasarin Benone: USAMV Iasi, Iasi (Romania)  
Pattikawa Jesaja Ajub: Pattimura University, Ambon (Indonesia)  
Petrescu Dacinia Crina: Babes-Bolyai University, Cluj-Napoca (Romania)  
Petrescu-Mag Ruxandra Malina: Babes-Bolyai University, Cluj-Napoca (Romania)  
Petrovici Milca: West University of Timisoara (Romania)  
Pratasik Silvester Benny: Sam Ratulangi University, Manado (Indonesia)  
Proorocu Marian: USAMV Cluj, Cluj-Napoca (Romania)  
Ray Sunuram: Khulna University (Bangladesh)  
Rhyne Andrew: Roger Williams University; New England Aquarium, Boston (USA)  
Safirescu Calin: USAMV Cluj, Cluj-Napoca (Romania)  
Serrano Jr. Augusto E.: University of the Philippines Visayas (Philippines)  
Sima Nicusor Flaviu: USAMV Cluj, Cluj-Napoca (Romania)  
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 12/2019 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

EBSCO – EBSCOhost Online Research Databases

CAB Direct (as part of CABI)

Wolters Kluwer - Ovid LinkSolver

CNCSIS Romania (Rank: B+)

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

Google (search engine)

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

Universität 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 Biblioteka

Reference Zone – Nigeria

Dayang Journal System

Riley-Hickingbotham Library



THOMSON REUTERS

Index to Organism Names (ION)



## 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](mailto:li_yanxia@cepiec.com.cn) Fax: +86 (0)10 6251 4068 [www.cepiec.com.cn](http://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.

EBSCOhost® databases are the most-used, premium online information resources for tens of thousands of institutions worldwide, representing millions of end-users.

Address: 10 Estes Street  
Ipswich, MA 01938 USA  
Phone: (978) 356-6500  
Toll Free: (800) 653-2726 (USA & Canada)  
Fax: (978) 356-6565  
E-mail: [information@ebscohost.com](mailto:information@ebscohost.com)



### 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.

