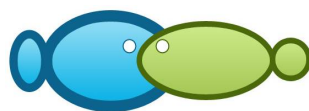


AACL Bioflux, Volume 13(1) February 28, 2020



Contents

Nugraha E., Gunawan R., Danapraja S., Yusrizal, Kusdinar A., Waluyo A. S., Hutajulu J., Prayitno H., Halim S., Sutisna D. H., 2020 The sea surface temperature effect on the length and size of skipjack tuna (*Katsuwonus pelamis*) catches in the Banda Sea, Indonesia. AAAL Bioflux 13(1):1-18.

Asadi M. A., Pambudi G. S, 2020 Diversity and biomass of mangrove forest within Baluran National Park, Indonesia. AAAL Bioflux 13(1):19-27.

Sulistijowati R., Karim Z., Junianto, 2020 The inhibition of *Vibrio alginolyticus* by the flavonoid extract of *Sonneratia alba* fruit. AAAL Bioflux 13(1):28-35.

Trianto A., Ambariyanto, Sarjito, Pramesti R., Soenarjo N., Hartati R., Taufiq-Spj N., Endrawati H., Destio, Yusidarta I., 2020 Ecological study and preliminary culture of the sponge *Candidaspongia* a source of anticancer molecules. AAAL Bioflux 13(1):36-45.

Hartanto, Tjahjono A., 2020 Plankton indexes and heavy metal pollution in Kendal coastal waters, Indonesia. AAAL Bioflux 13(1):46-63.

Akbar H., Syari I. A., Suyatna I., Putriningtias A., Bahri S., Destilawaty, Putra S. A., 2020 Condition of coral reefs in East Belitung, Bangka Belitung Islands, Indonesia. AAAL Bioflux 13(1):64-70.

Herawati E. Y., Khasanah R. I., Ambarwati M., Sofarini D., 2020 The effect of hydro-oceanographic factors on the community structure of plankton in natural and artificial coral reefs in Paiton waters. AAAL Bioflux 13(1):71-85.

Ahmad A., Fahrudin A., Boer M., Kamal M. M., Wardiatno Y., 2020 Ecosystem approach reef fisheries management model in Ternate Island, North Maluku, Indonesia. AAAL Bioflux 13(1):86-99.

Adelina A., Feliatra F., Siregar Y. I., Suharman I., 2020 Utilization of feather meal fermented *Bacillus subtilis* to replace fish meal in the diet of silver pompano, *Trachinotus blochii* (Lacepede, 1801). AACL Bioflux 13(1):100-108.

Koshinski R., 2020 Effect of *Taraxacum officinale* Weber ex Wiggers extract on growth performance, biochemical blood parameters and meat quality of rainbow trout (*Oncorhynchus mykiss* W.) cultivated in a recirculating system. AACL Bioflux 13(1):109-117.

Radona D., Kusmini I. I., Prihadi T. H., Khasani I., Astuti D. N., 2020 Hormonal induction for maturation, ovulation and successful level of spawning on striped snakehead (*Channa striata*). AACL Bioflux 13(1):118-124.

Kusmana C., Iswahyudi, Hidayat A., Noorchamat B. P., 2020 Sustainable status of mangrove forest ecosystem management in Langsa City, Aceh, Indonesia. AACL Bioflux 13(1):125-136.

Serdiati N., Yonarta D., Pratama F. S., Faqih A. R., Valen F. S., Tamam M. B., Hamzah Y. I. G., Hasan V., 2020 *Andinoacara rivulatus* (Perciformes: Cichlidae), an introduced exotic fish in the upstream of Brantas River, Indonesia. AACL Bioflux 13(1):137-141.

Silaban B., Wattimena M. L., Nanlohy E. E. E. M., Lewerissa S., Silaban R., 2020 Morphometric and proximate analysis of mole crabs (*Hippa* genus) in Maluku Province, Indonesia. AACL Bioflux 13(1):142-151.

Nieves P. M., Mendoza Jr. A. B., Bradecina S. R. B., 2020 Occurrence and recurrence: the fish kill story in Lake Buhi, Philippines. AACL Bioflux 13(1):152-158.

Kristiana V., Mukti A. T., Agustono, 2020 Increasing growth performance of Nile tilapia (*Oreochromis niloticus*) by supplementation of noni *Morinda citrifolia* fruit extract via diet. AACL Bioflux 13(1):159-166.

Ndobe S., Rusaini, Masyahoro A., Serdiati N., Madinawati, Moore A. M., 2020 Reproductive and morphometric characteristics of climbing perch *Anabas testudineus* in Sigi, Central Sulawesi, Indonesia. AACL Bioflux 13(1):167-182.

Sayed J. A., Iqbal H., Ayenuddin H., Al-Amin S., Samsad K., Amirun N., Kumar P. A., Shahanul I. M., 2020 A semi intensive approach on growth and profit margin of Indian major carps (*Catla catla*, *Labeo rohita* and *Cirrhinus cirrhosus*) with cost effective standard feed formulation. AACL Bioflux 13(1):183-193.

Tjendanawangi A., Dahoklory N., 2020 The effect of macroalgal species and content of feed formulation on sea urchin *Tripneustes gratilla* gonad quality. AACL Bioflux 13(1):194-198.

Rostika R., Azhima M. F., Ihsan Y. N., Andriani Y., Suryadi I. B. B., Dewanti L. P., 2020 The use of solid probiotics in feed to growth and survival rate of mantap common carp (*Cyprinus carpio*). AACL Bioflux 13(1):199-206.

Endrizalova J., Didenko A., Pavlinsky S., Manko P., 2020 Diet and feeding niche of five invasive species in the Bodrog River watershed. AACL Bioflux 13(1):207-217.

Doctolero J. S., Vera Cruz E. M., Velasco R. R., 2020 Morpho-behavioral and hematological responses of vaccinated proactive and reactive Nile tilapia (*Oreochromis niloticus*) subjected to handling stress. AACL Bioflux 13(1):218-229.

- Kurnialahi I. D., Husni A., Sinurat E., Isnansetyo A., 2020 Antioxidant activity of tropical seaweed *Sargassum muticum* fucoidan. *AACL Bioflux* 13(1):230-240.
- Suciyono, Anggara D. P., Azhar M. H., Ulkhaq M. F., Fasya A. H., 2020 Characteristics of *Acropora divaricata* and *Acropora nobilis* on different depths transplantation based on growth rate and zooxanthellae density. *AACL Bioflux* 13(1):241-249.
- Putri N. A., Sulmartiwi L., Pursetyo K. T., 2020 The histopathology of antique ark's mantle (*Anadara antiquata*) post-depuration with the shells' filtration. *AACL Bioflux* 13(1):250-260.
- Pujiyati S., Hananya A., Retnoaji B., Lubis M. Z., 2020 Bioacoustic of *Anguilla bicolor* (Mc Clelland, 1844) feeding behaviour under controlled conditions. *AACL Bioflux* 13(1):261-267.
- Asriyana A., Halili H., Irawati N., 2020 Size structure and growth parameters of striped eel catfish (*Plotosus lineatus*) in Kolono Bay, Southeast Sulawesi, Indonesia. *AACL Bioflux* 13(1):268-279.
- Sutono D., Saputra R. S. H., Zuhry N., 2020 Length and weight relationship of squid (*Loligo spp.*) landed in Tegalsari coastal fisheries harbour, Tegal, Central Java. *AACL Bioflux* 13(1):280-285.
- Zutshi B., Madiyappa R., 2020 Impact of *Lantana camara*, a carotenoid source, on growth and pigmentation in Koi swordtail (*Xiphophorus helleri*). *AACL Bioflux* 13(1):286-295.
- Zulhisyam A. K., Kabir M. A., Munir M. B., Wei L. S., 2020 Using of fermented soy pulp as an edible coating material on fish feed pellet in African catfish (*Clarias gariepinus*) production. *AACL Bioflux* 13(1):296-308.
- Halim M., Bengen D. G., Prartono T., 2020 Influence of turbidity and water depth on carbon storage in seagrasses, *Enhalus acoroides* and *Halophila ovalis*. *AACL Bioflux* 13(1):309-317.
- Nurhayati A., Nurruhwati I., Riyantini I., 2020 A bio-ecoregion development potential based on *Chelonia mydas* conservation in Pangumbahan Sukabumi, Indonesia. *AACL Bioflux* 13(1):318-329.
- Nugraha E., Yudho G. S., Jaenudin A., Yusrizal, Kusmedy B., Kusnidar A., Husen E. S., 2020 Relationship between length and weight of skipjack tuna (*Katsuwonus pelamis*) purse seine catching in the Maluku Sea, Indonesia. *AACL Bioflux* 13(1):330-345.
- Fransira I., Yanuhar U., Noercholis A., Maftuch, 2020 The effect of *Eleutherine palmifolia* root extract on the hematology of *Oreochromis niloticus* infected with *Pseudomonas fluorescens*. *AACL Bioflux* 13(1):346-359.
- Hardoko, Josephine C., Handayani R., Halim Y., 2020 Isolation, identification and chitinolytic index of bacteria from rotten tiger shrimp (*Penaeus monodon*) shells. *AACL Bioflux* 13(1):360-371.
- Hamid A., Benabbi O., Fekhaoui M., Bellaouchou A., 2020 Diagram of the hydro-trophic functioning of dam lakes in Morocco: case of the Bouhouda reservoir (Taounate). *AACL Bioflux* 13(1):372-380.

Ramses, Ismarti, Amelia F., Rozirwan, Suheryanto, 2020 Diversity and abundance of polychaetes in the west coast waters of Batam Island, Kepulauan Riau Province-Indonesia. *AACL Bioflux* 13(1):381-391.

Kepel R. C., Lumingas L. J. L., Tombokan J. L., Mantiri D. M. H., 2020 Community structure of seaweeds in dry season in Minahasa Peninsula, North Sulawesi, Indonesia. *AACL Bioflux* 13(1):392-402.

Limi M. A., La Sara, La Ola T., Yunus L., Surni, Dirgantoro M. A., Gafaruddin A., Fyka S. A., Batoa H., Yusuf E. A. A., 2020 Technical and economical analysis of milkfish farming on the coastal area of Kendari Bay after sedimentation. *AACL Bioflux* 13(1):403-413.

Hamid S. K., Teniwut W. A., Teniwut R. M. K., Renhoran M., Arifin D., 2020 Using data mining and spatial analysis for mapping the economic value and resources of indigenous communal sea in Indonesia: Kei Islands. *AACL Bioflux* 13(1):414-427.

Gunarto, Sulaeman, Herlinah, 2020 The mating success and hybridization of Mud crab, *Scylla spp.* in controlled tanks. *AACL Bioflux* 13(1):428-438.

Oktopura A. A. D., Fauzi A., Sugama K., Mulyati H., 2020 Determination of aquaculture priority commodities based on market competitiveness using multiple tool analysis. *AACL Bioflux* 13(1):439-449.

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

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)
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 Christopher M.A.: Temasek Polytechnic (Singapore)
Chapman Frank: University of Florida, Gainesville (USA)
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)
Kovacs Eniko: USAMV Cluj, Cluj-Napoca (Romania)
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)
Muntean George Catalin: USAMV Cluj, Cluj-Napoca (Romania)
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)
Ruchin Alexander B.: Joint Directorate of the Mordovia State Nature Reserve and National Park «Smolny», Saransk (Russia)
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 13/2020 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



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 export 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.

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



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.



