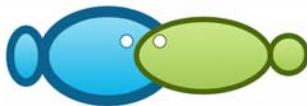


## **AACL Bioflux, Volume 10(4)**

### **August 30, 2017**



## **Contents**

Sahtout F., Boualleg C., Khelifi N., Kaouachi N., Boufekane B., Brahmia S., Mouaissia W., Bensouilah M., 2017 Study of some biological parameters of *Cyprinus carpio* from Foum El-khangha Dam, Souk-Ahras, Algeria. AACL Bioflux 10(4):663-674.

Hidayat T., Kusmana C., Tiryana T., 2017 Species composition and structure of secondary mangrove forest in Rawa Timur, Central Java, Indonesia. AACL Bioflux 10(4):675-686.

Suyatna I., Hanjoko T., Adnan A., Yasser M., Efendi M., Budiarso A. A., Eryati R., Rafii A., Sidik A. S., 2017 First record of coral reefs in the delta front of Mahakam Delta, East Kalimantan, Indonesia. AACL Bioflux 10(4):687-697.

Nursidi, Ali S. A., Anshary H., Tahya A. M., 2017 Environmental parameters and specific growth of *Kappaphycus alvarezii* in Saugi Island, South Sulawesi Province, Indonesia. AACL Bioflux 10(4):698-702.

Handhani A. R., Ambariyanto A., Supriyatini E., 2017 Reduction of Pb concentration in seawater by seaweed *Gracilaria verrucosa*. AACL Bioflux 10(4):703-709.

Saha D., Arisman N., Mona S. J., Yoshimatsu T., 2017 Effects of different levels of vitamin C and prolonged nursing on growth and innate immunity of Nile tilapia, *Oreochromis niloticus*. AACL Bioflux 10(4):710-720.

Gasmi Y., Belhocine K., Abdei R., Khati W., 2017 Parasitic specificity in the Sparidae family fish "*Pagellus erythrinus*" of the El Kala coast, Algeria. AACL Bioflux 10(4):721-738.

Ardania D., Wardiatno Y., Kamal M. M., 2017 First record of blue-pigmented Calanoid Copepod, *Acrocalanus sp.* in the whale shark habitat of Cendrawasih Bay, Papua - Indonesia. AACL Bioflux 10(4):739-745.

Nyanti L., Abu-Rashid N. N. K., Ling T. Y., Soo C. L., Sim S. F., Grinang J., 2017 Acidification tolerance of *Barbonymus schwanenfeldii* (Bleeker, 1854) and *Oreochromis niloticus* (Linnaeus, 1758) - implication of fish size. AACL Bioflux 10(4):746-753.

Istomo, Kusmana C., Naibaho B. D., 2017 Biomass potential on several mangrove planting models in Java Island, Indonesia. AACL Bioflux 10(4):754-767.

Supriatna, Marsoedi, Hariati A. M., Mahmudi M., 2017 Dissolved oxygen models in intensive culture of whiteleg shrimp, *Litopenaeus vannamei*, in East Java, Indonesia. AACL Bioflux 10(4):768-778.

Saha D., Pal S., Nandy G., Rahaman S. H., Chakraborty A., Aditya G., 2017 Exploitation pattern of mola carplet, *Amblypharyngodon mola* (Hamilton, 1822), a small indigenous

fish: observations from fish markets of rural West Bengal, India. AACL Bioflux 10(4):779-786.

Yamin M., Supriyono E., Nirmala K., Zairin M. Jr., Haris E., Rahmawati R., 2017 The effect of nonylphenol on spermogram, hematological properties and reproductive ability of comet goldfish (*Carassius auratus*). AACL Bioflux 10(4):787-796.

Balito - Libo-on J. S., Traifalgar R. F. M., 2017 Comparative evaluation of different carbohydrates as dietary energy source for the mud crab *Scylla serrata* megalopa. AACL Bioflux 10(4):797-804.

Kangkan A. L., Marsoedi, Semedi B., Bintoro G., 2017 Management and sustainability of the Kupang Bay coastal zone resources, East Nusa Tenggara Province, Indonesia. AACL Bioflux 10(4):805-813.

Chantarasiri A., Boontanom P., 2017 Decolorization of synthetic dyes by ligninolytic *Lysinibacillus sphaericus* JD1103 isolated from Thai wetland ecosystems. AACL Bioflux 10(4):814-819.

Wahidah, Omar S. B. A., Trijuno D. D., Nugroho E., Amrullah, 2017 The morphological characteristics of South Sulawesi's giant freshwater prawn *Macrobrachium rosenbergii*. AACL Bioflux 10(4):820-829.

Simbolon D., Nurfaqih L., Sala R., 2017 Analysis of oil sardine (*Sardinella lemuru*) fishing grounds in the Bali Strait waters, Indonesia. AACL Bioflux 10(4):830-843.

Lumenta C., Mamuaya G., Kalesaran O. J., 2017 Micro tablet of nacre layer in the shell of freshwater bivalve *Anodonta woodiana*. AACL Bioflux 10(4):844-849.

Hidayat A. S., 2017 Problem analysis and development strategy of shrimp culture in Tanah Laut Regency, South Kalimantan Province, Indonesia. AACL Bioflux 10(4):850-860.

Patanda M., Wisudo S. H., Monintja D. R., Wiryawan B., 2017 Sustainability for reef fish resource based on productivity and susceptibility in Wangi-Wangi Island, Southeast Sulawesi. AACL Bioflux 10(4):861-874.

Latuihamallo M., Loupatty J. W., Tahalea A. H., Manuputty G. D., 2017 The attachment rate of microalgae *Pavlova* sp. and *Chaetoceros* sp. for food of abalone larva. AACL Bioflux 10(4):875-881.

Wagey B. T., Kreckhoff R. L., Bucol A. A., 2017 Comparison of abundance and diversity of benthic macroinvertebrates between disturbed and non-disturbed seagrass-algal beds in central Philippines. AACL Bioflux 10(4):882-893.

Rahadiati A., Soewardi K., Wardiatno Y., Dewayani, 2017 Spatial pattern and temporal variation of water quality and carrying capacity for seaweed mariculture in Takalar, Indonesia. AACL Bioflux 10(4):894-910.

Farizah N., Zairin Jr. M., Darusman L. K., Boediono A., Suprayudi M. A., 2017 Accelerated ovarian maturation of mud crab (*Scylla olivacea*) using ethanol extract of *Melastoma malabathricum* leaf. AACL Bioflux 10(4):911-921.

Marini M., Suman A., Farajallah A., Wardiatno Y., 2017 Identifying *Penaeus merguiensis* de Man, 1888 stocks in Indonesian Fisheries Management Area 573: a truss network analysis approach. AACL Bioflux 10(4):922-935.

Anshary H., Sriwulan, Sukenda, Baxa D. V., 2017 Multiple viral pathogens occurrence in tiger shrimp (*Penaeus monodon*) broodstock from Sulawesi coastal waters. AACL Bioflux 10(4):936-950.

Lukas A. Y. H., Djokosetyanto D., Budiardi T., Sudrajat A. O., Affandi R., 2017 Optimization of salinity and calcium on Indonesian shortfin eel *Anguilla bicolor* maintenance. AACL Bioflux 10(4):951-961.

Payung C. N., Tumbol R. A., Manoppo H., 2017 Dietary ginger (*Zingiber officinale*) enhance resistance of Nile tilapia (*Oreochromis niloticus*) against *Aeromonas hydrophila*. AACL Bioflux 10(4):962-968.

Pattikawa J. A., Tetelepta J. M. S., Ongkers O. T. S., Unepputy P. A., Lewerissa H., 2017 Size distribution, length-weight relationship and age group of *Decapterus macrosoma* in eastern waters of Ambon Island, Indonesia. AACL Bioflux 10(4):969-976.

Polgardani N. Z., Rouzbehani S., Parsaiyan M., 2017 Male Siamese fighting fish (*Betta splendens*) recognize resource holding power of opponents. AACL Bioflux 10(4):977-982.

**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)  
Gavriloae Ionel-Claudiu: SC Bioflux SRL, Cluj-Napoca (Romania)

**Journal Secretary:**

Nowak Michal: University of Agriculture in Krakow (Poland)

**Editors:**

Adascalitei Oana: Maritime University of Constanta (Romania)  
Arockiaraj A. Jesu: SRM University, Chennai (India)  
Appelbaum Samuel: Ben-Gurion University of the Negev (Israel)  
Bavaru Adrian: Ovidius University, Constanta (Romania)  
Botha Miklos: Bioflux SRL, Cluj-Napoca (Romania)  
Breden Felix: Simon Fraser University (Canada)  
Brezeanu Gheorghe: Romanian Academy of Science, Bucharest (Romania)  
Bud Ioan: USAMV Cluj (Romania)  
Burny Philippe: Universite de Liege (Belgium)  
Caipang Christopher M.A.: Temasek Polytechnic (Singapore)  
Codreanu Mario: USAMV Bucuresti, Bucharest (Romania)  
Creanga Steofil: USAMV Iasi, Iasi (Romania)  
Cristea Victor: Dunarea de Jos University of Galati (Romania)  
Dimaggio Matthew A.: University of Florida (USA)  
Dutu Mircea: The Ecological University of Bucharest (Romania)  
Firica Cristian Manuel: Spiru Haret University Bucharest, Craiova (Romania)  
Georgescu Bogdan: USAMV Cluj, Cluj-Napoca (Romania)  
Grozea Adrian: USAMVB Timisoara (Romania)  
Malinas Cristian: USAMV Cluj, Cluj-Napoca (Romania)  
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)  
Muchlisin Zainal Abidin: Universiti Sains (Malaysia), Syiah Kuala University (Indonesia)  
Murariu Dumitru: Institute of Biology - Romanian Academy of Science, Bucharest (Romania)  
Olivotto Ike: Universita Politecnica delle Marche, Ancona (Italy)  
Oroian Firuta Camelia: USAMV Cluj, Cluj-Napoca (Romania)  
Papadopol Nicolae: Natural Sciences Museum Complex, Constanta (Romania)  
Parvulescu Lucian: West University of Timisoara (Romania)  
Pasarin Benone: USAMV Iasi, Iasi (Romania)  
Petrescu-Mag Ruxandra Malina: Babes-Bolyai University, Cluj-Napoca (Romania)  
Petrovici Milca: West University of Timisoara (Romania)  
Rhine Andrew: Roger Williams University; New England Aquarium, Boston (USA)  
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)  
Yusli Wardiatno: Bogor Agricultural University (Indonesia)

**Editorial counsellor:**

Velter Victor: UEFISCDI, Bucharest (Romania)

**Scientific Reviewers:**

Abdullah Khalid: Agricultural Research Institute Ratta Kulachi (Pakistan)  
Adewolu Morenike A.: Lagos State University, Ojo (Nigeria)  
Aftabuddin Sheikh: University of Chittagong (Bangladesh)  
Al-Qutob Mutaz: Al-Quds University (Palestinian Authority)  
Alves-Viana Rafael: Federal University of Vicosa (Brazil)  
Antone Veronica: Natural Sciences Museum Complex, Constanta (Romania)  
Balint Claudia: USAMV Cluj, Cluj-Napoca (Romania)  
Banatean-Dunea Ioan: USAB Timisoara, Timisoara (Romania)  
Berkesy Corina: ICPE Bistrita (Romania)  
Boaru Anca: USAMV Cluj, Cluj-Napoca (Romania)  
Brunio Erwin O.: Tokyo University of Marine Science & Technology (Japan)

Calado Ricardo J. G.: University of Aveiro, Aveiro (Portugal)  
Celik Meryem Yesim: University of Sinop (Turkey)  
Cighi Vasile: USAMV Cluj, Cluj-Napoca (Romania)  
Chiorean Adriana: Natural Sciences Museum Complex, Constanta (Romania)  
Cocan Daniel: USAMV Cluj, Cluj-Napoca (Romania)  
Constantinescu Radu: USAMV Cluj, Cluj-Napoca (Romania)  
Costa Daniel Ribeiro: Federal Rural University of Amazon, Belem (Brazil)  
Covaciuc-Marcov Severus D.: University of Oradea (Romania)  
Curlisca Angelica: Natural Sciences Museum Complex, Constanta (Romania)  
Das Simon Kumar: University Kebangsaan Malaysia (Malaysia)  
Dediu Lorena: Dunarea de Jos University of Galati (Romania)  
Docan Angela: Dunarea de Jos University of Galati (Romania)  
Gavrilovic Ana: University of Dubrovnik, Dubrovnik (Croatia)  
Ghira Ioan: Babes-Bolyai University, Cluj-Napoca (Romania)  
Gorgan Lucian Dragos: UAIC Iasi, Iasi (Romania)  
Gradinaru Andrei: USAMV Iasi, Iasi (Romania)  
Hermosilla Joepette J.: Tokyo Univ. of Marine Sci.& Tech., Minato, Tokyo (Japan)  
Hoha Gabriel: USAMV Iasi, Iasi (Romania)  
Ho Thi Minh Hop: Independent researcher (Vietnam)  
Jakab Endre: Babes-Bolyai University, Cluj-Napoca (Romania)  
Kabir Milad: Gorgan University of Agricultural Sciences and Nat. Res. (Iran)  
Kamali Sanzighi Mehrdad, Islamic of Azad University (Iran)  
Karayucel Ismihan: University of Sinop, Sinop (Turkey)  
Kosco Jan: Presov University, Presov (Slovakia)  
Malos Cristian: Babes-Bolyai University, Cluj-Napoca (Romania)  
Manko Peter: Presov University, Presov (Slovakia)  
Mat Jaafar Tun Nurul Aimi: Universiti Malaysia Terengganu, Terengganu (Malaysia)  
Mihaiescu Tania: USAMV Cluj, Cluj-Napoca (Romania)  
Mihalca Andrei: USAMV Cluj, Cluj-Napoca (Romania)  
Monwar Mohammad M.: University of Chittagong (Bangladesh)  
Munteanu Florin: Natural Sciences Museum Complex, Constanta (Romania)  
Murray Joanna: CEFAS, Lowestoft (England)  
Musuka Confred G.: The Copperbelt University, Kitwe (Zambia)  
Ndimele Prince Emeka: Lagos State University, Ojo, Lagos (Nigeria)  
Nita Victor: Nat. Inst. Marine Research & Dev. Gr. Antipa, Constanta (Romania)  
Norma-Rashid Y.: University of Malaya, Kuala Lumpur (Malaysia)  
Okpala Charles O. R.: Educare Skills & Training Network, Middlesex (UK)  
Oprea Lucian: Dunarea de Jos University, Galati (Romania)  
Oroian Teofil: USAMV Cluj, Cluj-Napoca (Romania)  
Ozunu Alexandru: Babes-Bolyai University, Cluj-Napoca (Romania)  
Palm Harry: University of Rostock, Rostock (Germany)  
Parsaeimehr Ali: National Academy of Science, Yerevan (Republic of Armenia)  
Peteiro Cesar: Spanish Institute of Oceanography (IEO), Santander (Spain)  
Petrescu Dacinia Crina: Babes-Bolyai University, Cluj-Napoca (Romania)  
Popescu Irinel Eugen: UAIC Iasi, Iasi (Romania)  
Rahman Mohammed Mahabubur: Kochi University, Kochi (Japan)  
Rahmati-holasoo Hooman: University of Tehran, Tehran (Iran)  
Rosioru Corina: UBB Cluj-Napoca (Romania)  
Rus Vasile: USAMV Cluj, Cluj-Napoca (Romania)  
Sakkaravarthi Karuppiah: Annamalai University, Tamil Nadu (India)  
Sas Istvan: University of Oradea, Oradea (Romania)  
Taati M. Mehdi: Gorgan University of Agricultural Sciences and Nat. Res. (Iran)  
Talu Stefan: Technical University of Cluj (Romania)  
Turcu Mihaela Claudia: University of Turku, Turku (Finland)  
Udoch James P.: University of Uyo, Uyo (Nigeria)  
Ustaoglu Tiril Serap: University of Sinop, Sinop (Turkey)  
Vaitheeswaran T.: Tamil Nadu Fisheries University, Chennai, Tamil Nadu (India)  
Vintila Iuliana: "Dunarea de Jos" University Galati (Romania)  
Yildirim Onder: Mugla Sitki Kocman University (Turkey)  
Zamfirescu Stefan: UAIC Iasi, Iasi (Romania).

#### 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 10/2017 from <http://www.bioflux.com.ro/aacl/> -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 fulltext 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  
Universita 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  
Universita 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-Hickingsbotham Library  
Politechnika Wroclawska  
Universite Paris Diderot – Revues Electroniques  
ERSA – Chinese Library.



We are told we have all kind of impact factors; please note that they are not calculated by JCR. However, if you want to have an idea about the impact of our publication, use the metrics published by Scopus Elsevier and Scimago. You can find there also a "2 year impact metrics" similar to the JCR impact factor. We would not pay attention to other impact factors than those calculated by JCR and Scopus.

## Our collaborators



### Socoler

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 exim 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](http://www.cepiec.com.cn)

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.



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.



