Contents


The journal includes original papers, short communications, and reviews on Aquaculture (Biological Technology, Economy, 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.

International Editorial Board

40 Countries (5 continents): Romania, USA, Guyana, Canada, Republic of Moldavia, Belgium, Italy, Spain, Peru, Turkey, Venezuela, Poland, Croatia, Germany, Finland, Slovakia, India, Pakistan, Israel, Switzerland, Hungary, Bangladesh, Palestinian Authority, Nigeria, South Korea, Greece, England, China, Japan, France, Thailand, Malaysia, Indonesia, Iran, Philippines, Norway, Republic of Armenia, Brazil, Portugal and Slovenia.

Editorial Board Expanded

Editor-in-Chief
Rhyne Andrew: Roger Williams University; New England Aquarium, Boston (USA)
Gavriloiu Ionel-Claudiu (reserve): Technical College "INFOEL" Bistrita (Romania).

Editors
Arockiaraj A. Jesu: Cheju National University (South Korea)
Bavaru Adrian: Ovidius University, Constanta (Romania)
Caipang Cristopher M.A.: Univ. Nordland, Bodoe (Norway); Indep. res. (Philippines)
Codreanu Mario: USAMV Bucuresti, Bucharest (Romania)
Dimaggio Matthew A.: University of Florida (USA)
Mehrad Bahareh: Gorgan University of Agricultural Sciences and Nat. Res. (Iran)
Muchlisin Zainal Abidin: Universiti Sains (Malaysia), Syiah Kuala University (Indonesia)
Murariu Dumitru: Grigore Antipa Museum of Natural History, Bucharest (Romania)
Muscalu Radu: Sterlet SRL, Timisoara (Romania)
Olivotto Ike: Universita Politecnica delle Marche, Ancona (Italy)
Parvulescu Lucian: West University of Timisoara (Romania)
Petrescu-Mag Ruxandra Malina: UBB Cluj-Napoca, Bioflux SRL (Romania)
Petrovici Milca: West University of Timisoara (Romania)
Tlusty Michael F.: New England Aquarium, Boston (USA)
Vesel Stefan Cristian: Iuliu Hatieganu UMF, Cluj-Napoca (Romania)
Wittenrich Matthew L.: University of Florida (USA)

Journal Secretary
Nowak Michal: University of Agriculture in Krakow (Poland)

Honorary Editors
Appelbaum Samuel: University of the Negev (Israel)
Bourne Godfrey Roderick: Univ. Missouri-St Louis (USA), CEIBA (Guyana)
Breeden Felix: Simon Fraser University (Canada)
Brezeanu Gheorghe: Romanian Academy of Science, Bucharest (Romania)
Bud Ioan: USAMV Cluj (Romania)
Bura Marian: USAMVB Timisoara (Romania)
Burny Philippe: Universite de Liege (Belgium)
Creanga Steofil: USAMV Iasi, Iasi (Romania)
Cristea Victor: Dunarea de Jos University of Galati (Romania)
Groza Adrian: USAMVB Timisoara (Romania)
Mcial Visiel: USAMV Cluj (Romania)
Molnar Kalman: Hungarian Academy of Sciences, Budapest (Hungary)
Naghlu Alexandria: USAMV Cj(Romania), Nat.Acad.Agric.Sci. (Italy), Univ.Leon (Spain)
Oroian Ioan: USAMV Cluj, Cluj-Napoca (Romania)
Papadopol Nicolae: Natural Sciences Museum Complex, Constanta (Romania)
Pasarin Benone: USAMV Iasi, Iasi (Romania)
Usturoi Marius Giorgi: USAMV Iasi, Iasi (Romania)

Editorial Councellor
Velter Victor: UEFISCDI, Bucharest (Romania)

Scientific Reviewers
Abdullah Khalid: Agricultural Research Institute Ratta Kulachi (Pakistan)
Abraham T. Jawahar: West Bengal Univ. of Animal & Fishery Sciences (India)
Adeolu Morenike A.: Lagos State University, Ojo (Nigeria)
Aftabuddin Sheikh: University of Chittagong (Bangladesh)
Al-Qutob Mutaz: Al-Quds University (Palestinian Authority)
Alves-Vianna Rafael: Federal University of Vicosa (Brazil)
Antonella Veronica: Natural Sciences Museum Complex, Constanta (Romania)
Banaduc Doru Stelian: Lucian Blaga University of Sibiu (Romania)
Banateanu Duanea Ioan: USAMV Timisoara (Romania)
Bercsey Corina: ICPE Bistrita (Romania)
Blas Raul Humberto Sevillano: Univ. Nacional Agraria La Molina (Peru)
Boaru Anca: USAMV Cluj, 3M AGC SRL, Cluj-Napoca (Romania)
Brunner Andreas: Swiss Federal Institute of Technology (Switzerland)
Bruno 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)
Chioarei Adriana: Natural Sciences Museum Complex, Constanta (Romania)
Cocan Daniel: USAMV Cluj, Cluj-Napoca (Romania)
Cosier Viorica: USAMV Cluj (Romania)
Costa Daniel Ribeiro: Federal Rural University of Amazon, Belem (Brazil)
Costea Ramona Ioana: USAMV Cluj (Romania)
Cotutiu Mihaela Ioana: Technical College INFOEL, Bistrita (Romania)
Covaciuc-Marcov Severus D.: University of Oradea (Romania)
Caspres Lazlo: Bioflux, Cluj-Napoca (Romania)
Curilica Angelica: Natural Sciences Museum Complex, Constanta (Romania)
Dediu Lorena: Dunarea de Jos University of Galati (Romania)
Ducan Angelu: Dunarea de Jos University of Galati (Romania)
Gal Denes: Research Inst. for Fisheries, Aquaculture & Irrigation, Szarvas (Hungary)
Galca Valeria: USAMV Iasi, Iasi (Romania)
Gavriloic Ana: University of Dubrovnik, Dubrovnik (Croatia)
Gospic Daniel: GZO d.o.o. (Slovenia)
Gorgan Lucian Dragos: UAIC Iasi (Romania)
Hajirezaee Saeed: University of Teheran, Karaj (Iran)
Hohla Gabriela: USAMV Iasi, Iasi (Romania)
Iorga Eugen: Institutul de Tehnologii Alimentare (Rep. Moldavia)
Ismail Kazi Shakila: Xiamen University, Xiamen (China)
Jakab Endre: UBB Cluj-Napoca (Romania)
Kabir Milad: Gorgan University of Agricultural Sciences and Nat. Res. (Iran)
Karamaycel Ismihan: University of Sinop (Turkey)
Kempkes Michael: Deutschen Guppyförderation (Germany)
Luangpirom Ampa: Khon Kaen University, Khon Kaen (Thailand)
Mako Cristian: UBB Cluj-Napoca (Romania)
Manko Peter: Presov University, Presov (Slovakia)
Montana Carmen: UNELLEZ, Barinas (Venezuela), University of Texas (USA)
Munteanu Octavian Liviu: UBB Cluj-Napoca (Romania)
Munteanu Florin: Natural Sciences Museum Complex, Constanta (Romania)
Murray Joanna: CEFAAS, Lowestoft (England)
Musculu-Nagy Cristina: Sterlet SL, Timisoara (Romania)
Ndimele Prince Emeka: Lagos State University, Ojo, Lagos (Nigeria)
Odagiu Antonia: USAMV Cluj, Cluj-Napoca (Romania)
Oprea Lucian: Dunarea de Jos University, Galati (Romania)
Oroian Teofil: USAMV Cluj, Cluj-Napoca (Romania)
Pacioglu Octavian: Roehampton University, London (England)
Paraseimehr Ali: National Academy of Science, Yerevan (Republic of Armenia)
Perdicakis Costas: Technological Educational Institute of Epirus (Greece)
Perkovic Anica: University of Jozip Juraj Strossmayer, Osijek (Croatia)
Petrescu Daciana Crina: UBB Cluj-Napoca (Romania)
Popescu Irinel Eugen: UAIC Iasi, Iasi (Romania)
Raghavan Rajeev: St. Albert's College, Kochi (India)
Rahman Mohammed Mahabubur: Kochi University, Kochi (Japan)
Rahimi-Mohssosoo Hooman: University of Tehran, Tehran (Iran)
Rosioru Corina: UBB Cluj-Napoca (Romania)
Rus Vasile: USAMV Cluj, Cluj-Napoca (Romania)
Sakkavarath Kuruppiyah: Annamalai University, Tamil Nadu (India)
Sahlean Tiberiu: University of Bucharest (Romania)
Sas Istvan: University of Oradea, Oradea (Romania)
Savin Anatol: ASM Institute of Zoology (Rep. Moldavia)
Talat M. Mehdi: Gorgan University of Agricultural Sciences and Nat. Res. (Ilan)
Talu Stefan: Technical University of Cluj (Romania)
Tugui Olimpia Ramona: Univ. Lyon II Lumiere (France)
Turcu Mihaela Claudia: University of Turku, Turku (Finland)
Udoh James P.: University of Uyo, Uyo (Nigeria)
Vințila Iuliana: "Dunarea de Jos" University Galati (Romania)
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

Alternate Journal Contact:
Ionel-Claudiu Gavriiloaei,
e-mail: ionelclaudiu@yahoo.com

Journal Secretary
Michał Nowak, Department of Ichthyobiology and Fisheries, University of Agriculture in Kraków, ul. T. Spiczakowa 6, 30-199 Kraków, Poland, European Union,
e-mail: mikhael.nowak@gmail.com

Note that there is also an electronic version of the journal. You may download the fulltext version of AACL Bioflux – Volume 5/2012 from http://www.bioflux.com.ro/aac1/ - open access.

All articles included in AACL Bioflux are peer reviewed. Each published article was seen by two reviewers and at least one specialist in foreign languages. 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 (over 100):

- Thomson Reuters Scientific - ISI Web of Knowledge (not yet WoS)
- Thomson Reuters Scientific - Master Journal List (via Zoological Record)
- Thomson Reuters Scientific - Zoological Record (direct submission/coverage)
- Scopus - Elsevier; Sciverse (SNIP = 0.943)
- Scimago - Journal Rank (SJR = 0.031)
- CAB International - CAB Abstracts
- Index Copernicus International – I.C. Journals Master List (ICV= 9.00)
- China Educational Publications Import & Export Corporation - SCOLAR
- Ulrich's Periodicals Directory
- EBSCO – EBSCOhost Online Research Databases
- CAB Direct (as part of CAB)
- 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 – DDB Database
- State Library of Ohio - OhioLINK Database
- Smithsonian Institution Libraries
- Biblioteka Główna Uniwersytetu Medycznego w Poznaniu
- Google Scholar, Academic (search engine)
- Google (search engine)
- Scirus - for scientific information only (Elsevier BV)
- 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
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.

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
News!

In April, 12, 2012

AAACL Bioflux (2007)

and

Pontus Euxinus (1980)

were merged into one journal, namely:

AAACL Bioflux (1980).

This bigger journal will keep the rights, obligations, editorial policies, ISSN codes, website, indexes, journal metrics and collaborative projects of older AAACL Bioflux (as long as Pontus Euxinus has no issue published after 2000).

This contract of cooperation is definitive and regards:

- editorial boards
- reviewers boards and
- series

That means:

- a larger board of editors and reviewers
- a larger number of authors and submissions
- tradition: Pontus Euxinus is AAACL Bioflux’s past.

We thank: Natural Sciences Museum Complex (Constantza, Romania) and Bioflux publishing house (Cluj-Napoca, Romania) for this collaborative effort!