

**HVM Bioflux, Volume 6(1)**  
**April 30, 2014**

**Human & Veterinary Medicine -  
International Journal of the Bioflux Society**



# **International Standard Serial Number**

## **Online ISSN 2066–7663; Print ISSN 2066-7655**

### **Published by Bioflux – three issues per year**

The journal covers all the fields of human and veterinary medicine.

#### **Editorial Board Expanded**

20 Countries (4 continents): Romania, India, Iran, Poland, USA, Italy, Egypt, Spain, Canada, Hungary, Sweden, Japan, France, Germany, Finland, Slovenia, Iraq, Zambia and Palestinian Authority.

#### **Editor-in-Chief**

Vesa Stefan Cristian - University of Medicine and Pharmacy, Cluj-Napoca (Romania)

#### **Editors**

Abd-Allah Saber Mohamed - Beni-Suef University (Egypt)  
Abraham T. Jawahar - West Bengal Univ. of Animal & Fishery Sciences (India)  
Buzdugan Elena - University of Medicine and Pharmacy, Cluj-Napoca (Romania)  
Crisan Sorin - University of Medicine and Pharmacy, Cluj-Napoca (Romania)  
Donca Valer - University of Medicine and Pharmacy, Cluj-Napoca (Romania)  
Georgescu Carmen - University of Medicine and Pharmacy, Cluj-Napoca (Romania)  
Kimura Tohru - National Institutes of Natural Sciences, Okazaki (Japan)  
Macarie Antonia - University of Medicine and Pharmacy, Cluj-Napoca (Romania)  
Matei Dana - University of Medicine and Pharmacy, Cluj-Napoca (Romania)  
Mohammad Fouad Kasim - University of Mosul, Mosul (Iraq)  
Petrescu-Mag Ioan Valentin - USAMV Iasi, Iasi (Romania)  
Petrovici Milca - West University of Timisoara (Romania)  
Petrovici Snejana - DVM practitioner, Jordbruksverkets (Sweden)  
Rhyne Andrew - Roger Williams University; New England Aquarium, Boston (USA)  
Voinescu Bogdan Ioan - Babeş-Bolyai University, Cluj-Napoca (Romania)

#### **Honorary Editors**

Buckhale Gerard - Independent researcher, Ottawa (Canada)  
Buzoianu Anca - University of Medicine and Pharmacy, Cluj-Napoca (Romania)  
Constantea Nicolae - University of Medicine and Pharmacy, Cluj-Napoca (Romania)  
Miclaus Viorel - USAMV Cluj, Cluj-Napoca (Romania)  
Stamatian Florin - University of Medicine and Pharmacy, Cluj-Napoca (Romania)

#### **Editorial Councillor**

Velter Victor: UEFISCDI, Bucharest (Romania)

#### **Scientific Reviewers**

Al-Qutob Mutaz - Al-Quds University (Palestinian Authority)  
Balint Ana Claudia - USAMV Cluj, Cluj-Napoca (Romania)  
Carst Robert Lucian - USAMV Bucuresti, Bucharest (Romania)  
Chirila Daciana - University of Medicine and Pharmacy, Cluj-Napoca (Romania)  
Cosier Viorica - USAMV Cluj, Cluj-Napoca (Romania)  
Costea Ramona Ioana - USAMV Cluj, Cluj-Napoca (Romania)  
Creanga Steofil - USAMV Iasi, Iasi (Romania)  
Csep Laszlo - Bioflux, Cluj-Napoca (Romania)  
Flonta Mirela - Infectious Diseases Hospital, Cluj-Napoca (Romania)  
Foti Maria, University of Messina, Messina (Italy)  
Gavriloaie Ionel-Claudiu: Technical College "INFOEL" Bistrita (Romania)  
Gorgan Lucian Dragos: UAIC Iasi, Iasi (Romania)

Gospic Daniel: G2O d.o.o. (Slovenia)  
Gradinaru Andrei: USAMV Iasi, Iasi (Romania)  
Hajimohammadi Bahador: Shahid Sadoughi University, Yazd (Iran)  
Harsan Radu - USAMV Cluj, Cluj-Napoca (Romania)  
Jaradat Mohammad - Bogdan Voda University, Cluj-Napoca (Romania)  
Josyula Ratnakar - Yale University School of Medicine (USA)  
Lucaciu Doriana - University of Medicine and Pharmacy, Cluj-Napoca (Romania)  
Militaru Valentin - University of Medicine and Pharmacy, Cluj-Napoca (Romania)  
Molnar Kalman - Hungarian Academy of Sciences, Budapest (Hungary)  
Munoz-Juzado Ana - Universidad de Cordoba (Spain)  
Musuka Confred G. - The Copperbelt University, Kitwe (Zambia)  
Nowak Michal – University of Agriculture in Krakow (Poland)  
Odagiu Antonia Maria - USAMV Cluj, Cluj-Napoca (Romania)  
Oroian Ioan - USAMV Cluj, Cluj-Napoca (Romania)  
Pasarin Benone - USAMV Iasi, Iasi (Romania)  
Pasarin Liliana - UMF 'Gr. T. Popa' Iasi (Romania)  
Petrescu Crina - Babes-Bolyai University, Cluj-Napoca (Romania)  
Petrescu-Mag Ruxandra Malina - Babes-Bolyai University, Cluj-Napoca (Romania)  
Popescu Irinel Eugen - UAIC Iasi, Iasi (Romania)  
Profico Chiara - DVM practitioner, Pescara (Italy)  
Pusta Dana - USAMV Cluj, Cluj-Napoca (Romania)  
Radu Corina - University of Medicine and Pharmacy, Cluj-Napoca (Romania)  
Rahmati-holasoo Hooman - University of Tehran, Tehran (Iran)  
Rosianu Horea - University of Medicine and Pharmacy, Cluj-Napoca (Romania)  
Rus Vasile - USAMV Cluj, Cluj-Napoca (Romania)  
Saraci George - University of Medicine and Pharmacy, Cluj-Napoca (Romania)  
Silaghi Ciprian - University of Medicine and Pharmacy, Cluj-Napoca (Romania)  
Suteu Mihai - Independent researcher, Cluj-Napoca (Romania)  
Teodorescu Magdalena - The Ohio State University (USA)  
Tepelus Tudor Cosmin - Universitat Tubingen (Germany)  
Tugui Olimpia Ramona - Univ. Lyon II Lumiere (France)  
Turcu Mihaela Claudia - University of Turku, Turku (Finland)  
Viswanath Jagannadh - St Peter' College Kolenchery (India)

---

#### Contact Publisher

SC Bioflux SRL, 54 Ceahlău Street, Cluj-Napoca, 400488, Romania, European Union.  
Ioan Valentin Petrescu-Mag, e-mail: zoobiomag2004@yahoo.com  
Vesa Stefan Cristian, e-mail: stefanvesa@gmail.com

---

Note that there is also an electronic version of the journal. You may download the fulltext version of HVM Bioflux – Volume 6/ 2014 from <http://www.hvm.bioflux.com.ro/> – open access.

---

All articles included in HVM Bioflux are peer-reviewed. Each published article was seen before by two reviewers and at least one specialist in foreign languages. The two peer-reviews are made independently.

## Abstracting and Indexes in International/National Databases and Catalogs

Scopus Elsevier – (Elsevier Products)  
Scimago Journal Rank (Scimago, Spain) – Powered by Scopus  
ISI Web of Knowledge – Thomson Scientific (via CABI and Zoological Record)  
CAB International - Global Health (CABI, UK)  
Zoological Record (Thomson – Master Journal List)  
EBSCO Publishing (Ipswich, USA) - EBSCOhost database  
DOAJ (Lund University Library)  
CEPIEC (China) - Socolar  
Wolters Kluwer - OVID LinkSolver (imported from CABI)  
Ulrich's Periodicals Directory  
Serials Solutions  
Index Copernicus  
CNCSIS Romania (Rank: B+)  
CAB Direct (part of CABI)  
World Cat  
Journal Tocs  
Open J Gate (World's Biggest Open Access English Language Journals Portal)  
Universität Zürich - Bibliothek der Vetsuisse-Fakultät (Digital Library)  
University of Washington - University Libraries (Digital Library)  
Technische Universität Berlin - Universitätsbibliothek (Digital Library)  
Dayang Journal System (Korea) (Digital Library)  
Geneva Foundation for Medical Education and Research (Digital Library)  
VUB Bibliotheek (Digital Library)  
HKU Libraries (Digital Library)  
NewJour (Digital Library)  
Directory of E-Journals  
New School Libraries - Get it!  
Korea University Library  
Google Scholar – Academic Search Engine  
Scirus - Search Engine for Scientific Information Only  
Google - Search Engine  
Yahoo - Search Engine  
and many others.



## Our collaborators



**ULRICHSWEB™**  
GLOBAL SERIALS DIRECTORY

Ulrich's™ is the most comprehensive knowledgebase of print and electronic serials data available and features in-depth coverage for more than 300,000 serials from 90,000 publishers covering 950 subject areas and 200 languages. This unmatched resource powers the Ulrich's™ Global Serials Intelligence services. For more than 75 years, librarians and researchers have trusted Ulrich's™ as the authoritative serials resource for unbiased information about journals, magazines, newspapers, and other periodicals around the world. The Ulrich's dedicated data managers perform ongoing research and publisher outreach to ensure the most current, multi-faceted view of the scope, availability, and quality of serials resources.



SCImago  
Journal & Country  
Rank  
powered by

**Scopus**  
Elsevier



# ELSEVIER PRODUCTS

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



## Socol@r

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.



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)



## **Contents**

- Rus NN, Bocsan C, Buzoianu AD. Lamotrigine in an experimental animal model of inflammatory pain. HVM Bioflux 2014;6(1):1-5.
- Boca AN, Badalica-Petrescu M, Buzoianu AD. Current therapeutic options in psoriasis. HVM Bioflux 2014;6(1):6-10.
- Ciovicescu F, Vesa SC, Radulescu D, Crisan S, Duncea C. Haemodialysis-induced electrolyte variation (serum calcium, magnesium and bicarbonate) and intradialytic heart rhythm disorders. HVM Bioflux 2014;6(1):11-14.
- Hotoleanu C, Popp R, Trifa A. Factor V Leiden, prothrombin G20210A and MTHFR C677T mutations in Romanian patients with deep venous thrombosis. HVM Bioflux 2014;6(1):15-19.
- Ciumarnean L, Milaciu MV, Macarie AE, Sampelean DP, Achimas-Cadariu A. Non-genetic factors influencing serum PON1 levels. HVM Bioflux 2014;6(1):20-24.
- Crișan IG, Vesa SC, Bocsan C, Cristea V. Correlations between serum levels of IL-17, IL-4, IL-31, IFN-gamma and etiological factors in patients with chronic spontaneous urticaria. HVM Bioflux 2014;6(1):25-29.
- Khichar V, and Kataria AK. Capsular genotyping (cap5k and cap8k) of *Staphylococcus aureus* isolates from cattle with clinical mastitis. HVM Bioflux 2014;6(1):30-33.
- Lucaciu O, Ionel A, Moga M, Sarbu A, Tiriac M, Campian RS. Evaluation of dental implants at 5 years from the completion of implant-prosthetic treatment. HVM Bioflux 2014;6(1):34-39.
- Bob MH, Popescu CA, Pirlög R, Buzoianu AD. Personality factors associated with academic stress in first year medical students. HVM Bioflux 2014;6(1):40-44.