



NOTULAE SCIENTIA BIOLOGICAE

2017 Volume 9, Issue 1

*Published by AcademicPres on behalf of:
Horticulture and Forestry Society from Transylvania*

Abstracted and/or indexed:

- Centre for Agriculture and Biosciences International (CABI), <http://www.cabi.org>
- ProQuest, <http://www.proquest.co.uk>
- Elton B Stephens Company (EBSCO), <http://www.ebscohost.com>
- Chemical Abstracts Service (CAS), <http://www.cas.org>
- CrossRef, <http://www.crossref.org>
- Google Scholar, <http://scholar.google.com>
- Directory of Open Access Journals (DOAJ), <http://www.doaj.org>
- British Library Direct (BLD), <http://explore.bl.uk>
- Index Copernicus, <http://www.indexcopernicus.com>
- Russian Scientific and Technical Information Institute (VINITI), <http://www.viniti.ru>
- Bielefeld Academic Search Engine (BASE), <http://www.base-search.net>
- China Educational Publications Import and Export Corporation (SOCOLAR), <http://www.socolar.com>
- Genamics JournalSeek, <http://journalseek.net>
- The National Science Digital Library (NSDL), <http://nsdl.org>
- WorldCat, <http://www.worldcat.org>

Print ISSN 2067-3205, Electronic ISSN 2067-3264

www.notulaebiologicalae.ro

Editorial Committee

Editor-in-Chief:	Radu E. SESTRĂȘ	rsestras@notulae.ro
Advisory Editors:	Cornel CĂTOI	cornel.catoi@usamvcluj.ro
	Viorel MITRE	mitre.viorel@usamvcluj.ro
	Ioan Gheorghe OROIAN	ioan.oroian@usamvcluj.ro
	Doru PAMFIL	dpamfil@usamvcluj.ro
Executive Editors:	Cătălina DAN	editor5@notulae.ro
	Lucica MIHALTE (CRIȘAN)	lmihalte@notulae.ro
	Valentin SINGUREANU	editor3@notulae.ro
Associate Editors:	Sorana BOLBOACĂ	sbolboaca@umfcluj.ro
	Monica BOSCAIU	mobosnea@eaf.upv.es
	Vasile COZMA	vasile.cozma@usamvcluj.ro
	Bogdan GEORGESCU	bogdan.georgescu@usamvcluj.ro
	Ioan Ștefan GROZA	ioangroza@yahoo.com
	Liviu HOLONEC	liviu.holonec@usamvcluj.ro
	Lorentz JÄNTSCHI	lori@academicdirect.org
	Mihail KANTOR	catrisu@yahoo.com
	Felicia LOGHIN	floghin@umfcluj.ro
	Andrei Daniel MIHALCA	amihalca@usamvcluj.ro
	Vioara MIREȘAN	vmiresan@usamv.ro
	Sevastița MUSTE	smuste@usamvcluj.ro
	Ioana POP	popioana@usamvcluj.ro
	Ioan ROTAR	irotar@usamvcluj.ro
	Adriana F. SESTRĂȘ	adriana.sestras@usamvcluj.ro
	Carmen SOCACIU	csocaciu@usamvcluj.ro
	Alina M. TRUȚA	alina_vilcan@yahoo.com
	Dan VODNAR	dan.vodnar@usamvcluj.ro
Journal Secretary:	Roxana L. STOIAN	editor6@notulae.ro
Linguistic editors:	Mihaela RUSU	miky1000ro@yahoo.com
	Rodica STAN	ro7si@yahoo.com
Technical support:	Adriana D. BACIU	ady.baciu@yahoo.com
	Diana MIRCEA	editor4@notulae.ro
	Maria GIURGEA	editor2@notulae.ro
	Dorottya DOMOKOS	ddomokos@usamvcluj.ro
	Oana PERNES	editor3@notulae.ro
	Ioana Maria PLEȘA	editor7@notulae.ro

Editorial Board

Ioan Vasile ABRUDAN	Transilvania University, 1 Sirul Beethoven St., 500123 Brasov, Romania; abrudan@unitbv.ro
Douglas D. ARCHBOLD	University of Kentucky, Lexington, KY 40546-0091, USA; darchbol@uky.edu
Omar BAGASRA	Claflin University, 400 Magnolia Street, Orangeburg, SC 29115, USA; obagasra@claflin.edu
Grigore BĂCIUȚ	University of Medicine and Pharmacy, 37 Cardinal Iuliu Hossu St., 400029 Cluj-Napoca, Romania; gbaciut@umfcluj.ro
Umberto BERNABUCCI	University of Tuscia, Via S. Camillo de Lellis 1-01100 Viterbo, Italy; bernab@unitus.it
Dimitrios BILALIS	Agricultural University of Athens, Department of Crop Science, Iera Odos 75, 11855 Athens, Greece; bilalisdimitrios@yahoo.gr
Rebecca BULLARD-DILLARD	Claflin University, 400 Magnolia Street, Orangeburg, SC 29115, USA; rdillard@claflin.edu
Anca Dana BUZOIANU	“Iuliu Hatieganu” University of Medicine and Pharmacy Cluj-Napoca, 8 Victor Babes, Cluj-Napoca, Romania; abuzoianu@umfcluj.ro
Gheorghe CIMPOIEȘ	The State Agrarian University of Moldova, 44 Mircesti St., Chisinau, Moldova; cimpoies@uasm.md
Kamal CHOWDHURY	Claflin University, 400 Magnolia Street, Orangeburg, SC 29115, USA; kchowdhury@claflin.edu
Ioan COMAN	University of Medicine and Pharmacy, 13 Emil Isac, 400023, Cluj-Napoca, Romania; jcoman@yahoo.com
Vasile CRISTEA	Babes-Bolyai University, 44 Gh Bilascu St., 400015 Cluj-Napoca, Romania; cristea@grbot.ubbcluj.ro
Róbert FARKAS	Faculty of Veterinary Science, Szent István University, Budapest Pf. 2, Hungary; farkas.robert@aotk.szie.hu
László FODOR	Faculty of Veterinary Science, Szent István University, Budapest, Hungary; Fodor.Laszlo@aotk.szie.hu
Francisco FUENTES	Ernest Mario School of Pharmacy Rutgers, The State University of New Jersey, USA; francisco.fuentes@rutgers.edu
Marek GAJEWSKI	Warsaw Agricultural University, 166 Nowoursynowska, 02-787 Warsaw, Poland; marek_gajewski@sggw.pl
Stefano GREGO	University of Tuscia, Via S. Camillo de Lellis 1-01100 Viterbo, Italy; grego@unitus.it
Roman HOLUBOWICZ	Agricultural University of Poznań, Department of Horticultural Seed Science and Technology, Poland; rholubowicz@au.poznan.pl
Florin IORAȘ	Buckinghamshire New University, United Kingdom; Florin.Ioras@bucks.ac.uk
Alexandru IRIMIE	‘Ion Chiricuta’ Cancer Institute, 34-36 Republicii St., 400015, Cluj-Napoca, Romania; office@iocn.ro
Stefania MASCI	University of Tuscia, Via S. Camillo de Lellis 1-01100 Viterbo, Italy; masci@unitus.it
Dan MIHU	University of Medicine and Pharmacy, 13 Emil Isac, 400023, Cluj-Napoca, Romania; dan.mihu@yahoo.com
Meena MISRA	Institute of Frontier Sciences and Biotechnology, Baramunda, Bhubaneswar-751004, India; meenamisra@yahoo.com
Neiva Izabel PIEROZZI	Instituto Agronômico de Campinas, CPDR Geneticos Vegetais, Brazil; pierozzi@iac.sp.gov.br
Jaime PROHENS	Instituto de Conservación y Mejora de la Agrodiversidad Valenciana Spain; jprohens@btc.upv.es
Chen QIN	School of Life Science, Shanghai Univ., 99 Shangda R., Baoshan District, Shanghai, 200436, China; chenqincc@yahoo.com.cn
Klaus SCHALLER	Research Center Geisenheim, P.O. Box 1158, D-65358 Geisenheim, Germany; k.schaller@fa-gm.de
Lei SHI	University Massachusetts, Sch Med, Department Neurobiol, Worcester, MA 01605 USA; shil@janelia.hhmi.org
Oscar VICENTE	IBMCP Universidad Politécnica de Valencia, Camino de Vera s/n. 46022 Valencia, Spain; ovicente@ibmcp.upv.es

Notice

To be cited **Notulae Scientia Biologicae** or abbreviated title **Not Sci Biol**.

The Editorial Board of Not Sci Biol is not responsible for statements and opinions published; they represent the views of the authors or persons to whom they are credited. Publication of research information does not constitute a recommendation or endorsement of products involved.

Aims and scope

[Notulae Scientia Biologicae](#) is a quarterly peer-reviewed journal aimed at disseminating significant research and original papers, critical reviews and short reviews on life sciences and medicine, development of new methodologies that can be of interest to a wide audience of scientists in all areas of biology sciences. The journal encourages authors to frame their research questions and discuss their results in terms of the major questions of biology, agriculture, horticulture, forestry, biotechnology and medicine, thereby maximizing the impact, spreading and value of their research. The papers must be of potential interest to a significant number of scientists and, if specific to a local situation, must be relevant to a wide body of knowledge in life and medical sciences. Articles should make a significant contribution to the advancement of knowledge or toward a better understanding of existing biological, agricultural and medical concepts. An international Editorial Board advises the journal. The total content of the journal may be used for educational, non-profit purposes without regard to copyright. The distribution of the material is encouraged with the condition that the authors and the source (**Notulae Scientia Biologicae** or **Not Sci Biol**) are mentioned.

Submission

The journal offers to authors a fully web-enabled online manuscript submission, instructions for authors and review system available at <http://www.notulaebiologicae.ro>

Papers are published in English (British spelling) and the authors are fully responsible for the originality of their papers and for the correctness of their subject-matter, language and formal attributes. Authors whose mother tongue is not English are strongly urged to have their manuscripts reviewed linguistically before submission.

Manuscripts submitted must be edited, for clarity and conformity purposes according to Authors guidelines, and must not have been previously published or simultaneously submitted elsewhere.

The papers can be submitted online by the “senior author” (the main author, or the person who takes responsibility for the integrity of the work as a whole, from submission to the published article). The submission process is described on the web site.

An Author Statement, available on the website, should be enclosed by “senior author” declaring that the paper has not been published anywhere else, permission to reproduce the material, authorship credit, contributors and creditors for the integrity of the work as a whole, to avoid the conflicts of interest and scientist fraud, and respecting the ethical principles of publishing, research and scientific rights.

Publication Ethics and Publication Malpractice Policy

The journal respects the publication ethics norms, based on internationally accepted best practice guidelines for journal editors, notably the Committee on Publication Ethics ([COPE](#)), the World Association of Medical Editors Ethics ([WAME](#)), the International Committee of Medical Journal Editors ([ICMJE](#)) and Consolidated Standards of Reporting Trials ([Consort](#)).

Prof. dr. Radu E. SESTRĂȘ

Table of Contents - Vol 9, No 1 (2017)

Editorial

[Introduction Pages](#)

Radu E. SESTRAS

[PDF](#)

I-VI

Review article

[Haematology and Clinical Biochemistry Findings Associated with Equine Diseases - a Review](#)

Onyinyechukwu A. AGINA

[PDF](#)

1-21

Research articles

[Prevalence and Antibigram of Generic Extended-Spectrum \$\beta\$ -Lactam-Resistant](#)

[Enterobacteria in Healthy Dogs](#)

Madubuike U. ANYANWU, Ifeoma C. UGWU, Martins O. EZEKWELU, Obianuju N. OKORAFOR

[PDF](#)

22-33

[Microbiological Assessment of Poultry Feeds within Ilorin, Nigeria](#)

Ismaila Olawale SULE, Israel Oluwatunmise ILORI

[PDF](#)

34-39

[Biochemical Changes in Fatty Acids, Hydrocarbons and Sterols as well as Total Lipids of](#)

[Albino Rats Ingested some Synthetic Colourants and Flavourants as Food Additives](#)

Hossam S. EL-BELTAGI, Emam A. ABDEL-RAHIM

[PDF](#)

40-47

[Effect of Methanolic Fruit Extract of *Piper guineense* on Serum Biochemical Parameters and](#)

[Histomorphology of the Liver and Kidney of Male Albino Rats \(*Rattus norvegicus*\)](#)

Chidozie N. OKOYE, Izuchukwu S. OCHIOGU, Onyinyechukwu A. AGINA, Ukamaka U. EZE, Nnenna O. NWACHUKWU, Ikechukwu J. UDEANI, Ifeanyi G. EKE, Susan O. DAN-JUMBO

[PDF](#)

48-53

[Some Uterine and Ovarian Biometric Changes in Pregnant Maradi Female Goats \(*Capra aegagrus hircus* L.\)](#)

Chidozie Nwabuisi OKOYE, Clifford Nwabugwu ABIEZUTE, Okezie Samuel EKERE

[PDF](#)

54-58

[Age-related Microscopic Changes in the Thyroid Gland of West African Dwarf Goat During Foetal and Post-natal Periods of Development](#)

Casmir O. IGBOKWE, Daniel N. EZEASOR

[PDF](#)

59-66

[The Haematology and Serum Biochemistry Profile of Adult Japanese Quail \(*Coturnix coturnix japonica*\)](#)

Onyinyechukwu A. AGINA, Wilfred S. EZEMA, Ezinwa M. IWUOHA

[PDF](#)

67-72

[Chemical Composition of *Mentha spicata* L. subsp. *tomentosa* and *M. pulegium* L., and their Antimicrobial Activity on Strong Pathogen Microorganisms](#)

Emre SEVİNDİK, Çiğdem YAMANER, Cemal KURTOĞLU, Betül TİN

[PDF](#)

73-76

[Total Phenol Content and Antimicrobial Activity of Lingonberry \(*Vaccinium vitis-idaea* L.\) from Several Areas in the Eastern Carpathians](#)

Éva LASLO, Zoltán Attila KÖBÖLKUTI

[PDF](#)

77-83

[In Vitro Rooting of *Dendrobium nobile* Orchid: Multiple Responses to Auxin Combinations](#)

Abdul Aziz MIRANI, Adel Ahmed ABUL-SOAD, Ghulam Sarwar MARKHAND

[PDF](#)

84-88

[Effect of Light Quality, Sucrose and Trehalose on In Vitro Organogenesis of *Cymbidium devonianum* \(Lindl.\)](#)

Syed M. HAQUE, Syeda J. NAHAR, Shimasaki KAZUHIKO

[PDF](#)

89-93

[Comparative Foliar and Petiole Anatomy of Some Members of the Genus *Dieffenbachia* Schott in the Family Araceae](#)

Oluwabunmi O. AROGUNDADE, Olubukola ADEDEJI

[PDF](#)

94-103

Anatomy and Micromorphology of <i>Inula helenium</i> subsp. <i>orgyalis</i> and <i>I. ensifolia</i> (Asteraceae) from Turkey	PDF	104-109
Tulay AYTAS AKCIN, Adnan AKCIN		
Genetic Variability Studies on Twelve Genotypes of Rice (<i>Oryza sativa</i> L.) for Growth and Yield Performance in South Eastern Nigeria	PDF	110-115
Vincent N. ONYIA, Emeke C. OKECHUKWU, Agatha I. ATUGWU, Ndueso M. AKPAN		
The Effects of Nitrogen Source on Nutritive Value of Irrigated Silage Corn	PDF	116-123
Seyfollah FALLAH, Solmaz NEISANI		
Biocontrol of <i>Sclerotium rolfsii</i> in Groundnut by Using Microbial Inoculants	PDF	124-130
Khirood DOLEY, Mayura DUDHANE, Mahesh BORDE		
Effect of <i>Lasiodiplodia pseudotheobromae</i> Isolates, a Potential Bioherbicide for <i>Amaranthus hybridus</i> L. in Maize Culture	PDF	131-137
Charles Oluwaseun ADETUNJI, Julius Kola OLOKE, Gandham S. PRASAD, Isaac Oluseun ADEJUMO		
Growth and Yield Responses of Green Pepper (<i>Capsicum annum</i> L.) to Manure Rates under Field and High Tunnel Conditions	PDF	137-142
Ima-obong I. DOMINIC, Ndueso M. AKPAN, Kayode P. BAYERI		
Effects of Sowing Date on Physiological Characteristics, Yield and Yield Components for Different Maize (<i>Zea mays</i> L.) Hybrids	PDF	143-147
Amir Taher RAH KHOSRAVANI, Cyrus MANSOURIFAR, Seyed Ali Mohammad MODARRES SANAVY, Kamal Sadat ASILAN, Hamed KESHAVARZ		

Journal Contact

Mailing Address

[Notulae Scientia Biologicae](#)

Radu E. SESTRAS, Editor-in-Chief

University of Agricultural Sciences and Veterinary Medicine

3-5 Manastur St., 400372 Cluj-Napoca, Romania

Phone: +40 264-596 384 ext. 176; Fax: +40 364-819 182

Email: rsestras@notulae.ro

Technical Support Contact

Email: editor1@notulae.ro

Journal Sponsorship

Publisher

- [Horticulture and Forestry Society from Transylvania](#) by AcademicPres

Sponsors

- [Horticulture and Forestry Society from Transylvania](#)
- [University of Agricultural Sciences and Veterinary Medicine \(UASVM\)](#)
- [Romanian Academy of Agricultural and Forestry Sciences](#)

Sources of Support

Additional agencies or organizations that provide financial or in-kind support:

- SC TOPOCADPRO SRL