



NOTULAE BOTANICAE  
HORTI AGROBOTANICI  
CLUJ-NAPOCA

2010 Volume 38, Issue 1

*A journal of the University of Agricultural Sciences and Veterinary Medicine,  
Cluj-Napoca, Romania*

*Published by AcademicPres on behalf of:*

*University of Agricultural Sciences and Veterinary Medicine, Cluj-Napoca  
Horticulture and Forestry Society from Transylvania  
Romanian Academy of Agricultural and Forestry Sciences  
Transylvania Society for Plant Protection*

**Abstracted and/or indexed:**

- Thomson Reuters Master Journal List - Science Citation Index Expanded and Journal Citation Reports/Science Edition, <http://science.thomsonreuters.com>
- Scopus (Elsevier), <http://www.scopus.com>
- Centre for Agriculture and Biosciences International (CABI), <http://www.cabi.org>
- Chemical Abstracts Service (CAS), <http://www.cas.org>
- Directory of Open Access Journals (DOAJ), <http://www.doaj.org>
- Index Copernicus, <http://www.indexcopernicus.com>
- Russian Scientific and Technical Information Institute (VINITI), <http://www.viniti.ru>
- Scientific Commons, <http://en.scientificcommons.org>
- Bielefeld Academic Search Engine (BASE), <http://www.base-search.net>
- Google Scholar, <http://scholar.google.com>
- Open J-Gate, <http://www.openj-gate.com>
- Academic research, citation reports and discussion lists getCITED, <http://www.getcited.org>
- Open Archives Initiative Protocol for Metadata Harvesting (OAster), <http://www.oaister.org>
- China Educational Publications Import and Export Corporation (SOCOLAR), <http://www.socolar.com>
- Ulrich's Periodicals Directory, <http://www.ulrichsweb.com>
- Elton B Stephens Company (EBSCO), <http://www.ebscohost.com>

*First published 1965*

*Print ISSN 0255-965X, Electronic ISSN 1842-4309*

*[www.notulaeobotanicae.ro](http://www.notulaeobotanicae.ro)*

**Editorial office**

Notulae Botanicae Horti Agrobotanici Cluj-Napoca ©  
AcademicPres  
University of Agricultural Sciences and Veterinary Medicine  
3-5 Manastur St., 400372 Cluj-Napoca, Romania  
Phone: +40 264-596 384 ext. 176  
Fax +40 364-819 343  
E-mail: rsestras@notulaeobotanicae.ro

**Editorial Committee**

<b>General Editor:</b>	Radu E. SESTRĂȘ	University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca (USAMV Cluj-Napoca), 3-5 Mănăstur St., 400372 Cluj-Napoca, Romania; rsestras@notulaeobotanicae.ro
<b>Science Editor:</b>	Doru PAMFIL	USAMV Cluj-Napoca, 3-5 Mănăstur St., 400372 Cluj-Napoca, Romania; dpamfil@usamvcluj.ro
<b>Publisher Director:</b>	Liviu AL. MĂRGHITAȘ	USAMV Cluj-Napoca, 3-5 Mănăstur St., 400372 Cluj-Napoca, Romania; lmarghitas@usamvcluj.ro
<b>Production Editors:</b>		
	Sorana BOLBOACA	University of Medicine and Pharmacy, 13 Emil Isac, 400023, Cluj-Napoca, Romania; sbolboaca@umfcluj.ro
	Monica BOSCAIU	Universidad Politécnica de Valencia, EPS Gandia, Carretera Nazaret-Oliva s/n, 467300 Gandia, Spain; mobosnea@caf.upv.es
	Lorentz JÄNTSCHI	Technical University of Cluj-Napoca, 15 Constatin Daicovicu, 400020, Cluj-Napoca, Romania; lori@academicdirect.org
	Ioan NEGRUȚIU	Ecole Normale Supérieure, RDP-UMR 9938 CNRS, INRA, ENS, 69364 Lyon, France; ioan.negrutiu@ens-lyon.fr
	Leon Sorin MUNTEAN	USAMV Cluj-Napoca, 3-5 Mănăstur St., 400372 Cluj-Napoca, Romania; lmuntean@usamvcluj.ro
	Ioana POP	USAMV Cluj-Napoca, 3-5 Mănăstur St., 400372 Cluj-Napoca, Romania; ipop@notulaeobotanicae.ro
	Ioan ROTAR	USAMV Cluj-Napoca, 3-5 Mănăstur St., 400372 Cluj-Napoca, Romania; irotar@usamvcluj.ro
	Mircea TĂMAȘ	Univ. Medicine and Pharmacy Cluj-Napoca, Pharmacy Faculty, 13 Emil Isac St., Romania; mtamas@umfcluj.ro
<b>Linguistic editor:</b>	Mihaela RUSU	USAMV Cluj-Napoca, 3-5 Mănăstur St., 400372 Cluj-Napoca, Romania; mrusu@notulaeobotanicae.ro
<b>Technical support:</b>	Ionuț GOTEA	USAMV Cluj-Napoca, 3-5 Mănăstur St., 400372 Cluj-Napoca, Romania; igotea@notulaeobotanicae.ro
	Cătălina DAN	USAMV Cluj-Napoca, 3-5 Mănăstur St., 400372 Cluj-Napoca, Romania; cdan@notulaeobotanicae.ro
	Melinda PUSKAS	USAMV Cluj-Napoca, 3-5 Mănăstur St., 400372 Cluj-Napoca, Romania; mpuskas@notulaeobotanicae.ro
	Gianina MORAR	USAMV Cluj-Napoca, 3-5 Mănăstur St., 400372 Cluj-Napoca, Romania; gmorar@notulaeobotanicae.ro
<b>Journal secretary:</b>	Lucica MIHALTE	USAMV Cluj-Napoca, 3-5 Mănăstur St., 400372 Cluj-Napoca, Romania; lmihalte@notulaeobotanicae.ro

**Notice**

To be cited **Not. Bot. Hort. Agrobot. Cluj**

The Editorial Board of Not. Bot. Hort. Agrobot. Cluj 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.

## Editorial Board

Name	Address	Field of Competence
Ioan ABRUDAN	Transilvania University, 1 Sirul Beethoven St., 500123 Brasov, Romania; abrudan@unitbv.ro	Forestry, biodiversity, ecology
Douglas D. ARCHBOLD	University of Kentucky, Lexington, KY 40546-0091, USA; darchbol@uky.edu	Fruits and vegetables, postharvest storage
Marin ARDELEAN	USAMV Cluj-Napoca, 3-5 Mănăştur St., 400372 Cluj-Napoca, Romania; mardelean@usamvcluj.ro	Horticultural – plant breeding, biostatistics
Valerian BALAN	State Agrarian University of Moldova, 44 Mirceşti St. 2049 Chişinău, Rep. Moldova, e-mail: v.balan@uas.moldnet.md	Fruit crops, pomology
Maria YORDANOVA BOROVIHOVA	Institute of Agriculture, Kyustendil, 2500, Bulgaria; iz_kn@infotel.bg	Environment – Plant protection
Constantin BOTEZ	USAMV Cluj-Napoca, 3-5 Mănăştur St., 400372 Cluj-Napoca, Romania; cbotez@usamvcluj.ro	Genetics – molecular, transformation
Tomasz BRALEWSKI	Agric. University of Poznań, Baranowo, 28 Szamotulska 62-081 Przeźmierowo, Poland, twbseed@interia.pl	Vegetable – seed production
Ioan BREAZU	Grassland Research Institute, 2200 Braşov, Romania; ioan_breazu@yahoo.com	Grassland, fodder crop
Kamal CHOWDHURY	Claffin University, Orangeburg, SC, USA, United States; kchowdhury@claffin.edu	Biotechnology, molecular genetics
Dan GAFTA	“Babeş-Bolyai” University, Faculty of Biology, 44 Gh. Bilascu St., Romania; dgafta@bioge.ubbcluj.ro	Biodiversity, ecology, conservation
Marek GAJEWSKI	Warsaw Agricultural University, 166 Nowoursynowska, 02-787 Warsaw, Poland; marek_gajewski@sggw.pl	Vegetables and medicinal plants
Ioan HAŞ	Agricultural Research Station, 27 Agriculturii St., 3350 Turda, Romania; ioanhas@yahoo.com	Cereals – breeding, physiology, quality
David HENSLEY	University of Arkansas, Fayetteville, AR 72701, USA; dhensley@uark.edu	Ornamental plants, arboriculture
Imre HOLB	Univ. Agricultural Sciences of Debrecen, 138 Böszörményi St., 4032 Debrecen, Hungary; holb@helios.date.hu	Environment – plant protection
Michel JACOBS	Vrije Universiteit Brussel, 65 Paardenstraat, 1640 Rhode-Saint-Genèse, Belgium; mjacobs@vub.ac.za	Genetics – molecular, transformation
Amarendra NARAYAN MISRA	Fakir Mohan University, Vyasa Vihar, Balasore-756019, India; misraan@yahoo.co.uk	Bioinformatics, Tissue cultures
Ioan NEGRUŢIU	Ecole Normale Supérieure, RDP-UMR 9938 CNRS, INRA, ENS, 69364 Lyon, France; ioan.negrutiu@ens-lyon.fr	Biotechnology – <i>in vitro</i> culture
Doru PAMFIL	USAMV Cluj-Napoca, 3-5 Mănăştur St., 400372 Cluj-Napoca, Romania; dpamfil@usamvcluj.ro	Biotechnology – <i>in vitro</i> culture
Jaime PROHENS	Instituto de Conservación y Mejora de la Agrodiversidad Valenciana, Spain, jprohens@btc.upv.es	Plant breeding, statistics
Chen QIN	School of Life Science, Shanghai Univ., 99 Shangda R., Baoshan District, Shanghai, 200436, China; chenqincc@yahoo.com.cn	Plant physiology, biotechnology
Albert REIF	Faculty of Forestry and Environmental Sciences, Univ. Freiburg, Tennenbacher Str. 4, D-79085, Freiburg, Germany; albert.reif@waldbau.uni-freiburg.de	Forestry, vegetation sciences, biodiversity
Klaus SCHALLER	Research Center Geisenheim, P.O. Box 1158, D-65358 Geisenheim, Germany	Ecology, Viticulture
Radu SESTRĂŞ	USAMV Cluj-Napoca, 3-5 Mănăştur St., 400372 Cluj-Napoca, Romania; rsestras@usamvcluj.ro	Horticultural – plant breeding, biostatistics
Carmen SOCACIU	USAMV Cluj-Napoca, 3-5 Mănăştur St., 400372 Cluj-Napoca, Romania; csocaciu@usamvcluj.ro	Chemistry – plant and food quality
Silvia STRĂJERU	Genetic Resources Bank of Suceava, 17 Bd. 1 Decembrie 1918, 5800 Suceava, Romania; genebank@suceava.astral.ro	Bioconservation, genetic resources
Mircea TĂMAŞ	Univ. Medicine and Pharmacy Cluj-Napoca, Pharmacy Faculty, 13 Emil Isac St., Romania; mtamas@umfcluj.ro	Botanical, pharmaceutical plant
Oscar VICENTE	IBMCP Universidad Politécnica de Valencia, Camino de Vera s/n. 46022 Valencia, Spain; ovicente@ibmcp.upv.es	Biochemistry, molecular biology
Zhang WEIGUANG	College of Food Science, Southwest Agricultural University, 216 Tianshengqiao, Beibei District, Chongqing, 400716, China; zwguang@hotmail.com	Food – fermentation, wine-making

## Aims and scope

**Notulae Botanicae Horti Agrobotanici Cluj-Napoca** is a peer-reviewed biannual journal aimed at disseminating significant research and original papers on plant breeding, genetics, diversity and development of new methodologies that can be of interest to a wide audience of plant scientists in all areas of plant biology, agriculture, horticulture, and forestry. The journal encourages authors to frame their research questions and discuss their results in terms of the major questions of plant biology and agriculture, 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 biology and agronomy. Articles should make a significant contribution to the advancement of knowledge or toward a better understanding of existing biological and agricultural concepts. An international Editorial Board advises the journal. There are no publishing fee and no pay for submission. 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 Botanicae Horti Agrobotanici Cluj-Napoca** or **Not. Bot. Hort. Agrobot. Cluj**) 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.notulaebotanicae.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. A language reviewer revises English, but authors are strongly urged to have the papers reviewed linguistically prior to 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.

## News

Starting with Volume 36/2008, Issue 1, *Notulae Botanicae Horti Agrobotanici Cluj-Napoca* is indexed in Thomson Reuters Master Journal List (WoS) - Science Citation Index Expanded and Journal Citation Reports, and since 2009 in Scopus (Elsevier).

## The Editorial Committee of the Journal NOTULAE BOTANICAE HORTI AGROBOTANICI CLUJ-NAPOCA

Are kindly inviting you to contribute with scientifically papers to our journal *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, Print ISSN 0255-965X; Electronic ISSN 1842-4309, first published in 1965 under the care of the University of Agricultural Sciences and Veterinary Medicine, Cluj-Napoca, Romania.

The journal has been assessed and received national recognition because of its high scientifically quality by the The National University Research Council from Romania (CNCSIS).

Being aware of your interests, we are looking forward to your collaboration and we are waiting for you to join us and help us develop this journal with your high-quality, original articles about all plants domain.

Prof. Dr. Radu SESTRĂȘ  
General Editor



## Contents

<b>Seed Germination Behaviour in <i>Sideritis</i> from Different Iberian Habitats</b> Elena ESTRELLES, Jaime GÜEMES, Jesus RIERA, Monica BOSCAIU, Ana M. IBARS, Manuel COSTA.....	9
<b>Micromorphological and Chemical Characterization of Starches in <i>Dioscorea rotundata</i> L. (White Yam)</b> Oluwayemisi MALOMO, Adeniyi Akanni JAYEOLA .....	14
<b>A Taxonomic Study of some Species in <i>Cassiinae</i> (<i>Leguminosae</i>) using Leaf Epidermal Characters</b> Sefiu Adekilekun SAHEED, Herbet Chukwuma ILLOH .....	21
<b>Morphological and Chemical Characterization of <i>Psidium</i> Species</b> Anshu SHARMA, Surinder Kumar SEHRAWAT, Ran Singh SINGHROT, Ajinath TELE .....	28
<b>Contribution to the Knowledge of the Alien Flora of Romania: <i>Rudbeckia triloba</i> L. and <i>Senecio inaequidens</i> DC.</b> Culita SIRBU, Adrian OPREA.....	33
<b>Isoenzyme Pattern in Selected Taxa of the <i>Primulaceae</i></b> Ana COSTE, Dana SUTEU, Bogdan HURDU, Ilie-Adrian STOICA, Tudor URUSU, Liviu FILIPAS, Ioan BACILA, Sorina FARCAS .....	37
<b>Influence of Intermittent Heating during Maceration on the Antioxidant Capacity of some Grape Seeds and Skins</b> Anamaria HOSU, Claudia CIMPOIU, Vasile MICLAUS, Grigore DAMIAN, Irina TARSICHE, Nastasia POP.. .....	41
<b>HPLC Organic Acid Analysis in Different Citrus Juices under Reversed Phase Conditions</b> Violeta NOUR, Ion TRANDAFIR, Mira Elena IONICA .....	44
<b>Changes in Antioxidant Enzymes during Ageing of Onion Seeds</b> Mustafa DEMIRKAYA, Karl Josef DIETZ, H. Özkan SIVRITEPE .....	49
<b>Phenolics of Green Husk in Mature Walnut Fruits</b> Sina COSMULESCU, Ion TRANDAFIR, Gheorghe ACHIM, Mihai BOTU, Adrian BACIU, Marius GRUIA ... ..	53
<b>Phytochemical Analysis of Isoflavons from some <i>Fabaceae</i> Species Extracts</b> Daniela HANGANU, Laurian VLASE, Neli OLAH .....	57
<b>Characterisation of Newly Polar Psychrotrophic Streptomycetes Isolates from Polar Soils with Cold Adapted Bioremediation Potential</b> Mihaela COTARLET, Gabriela E. BAHRIM, Teodor G. NEGOITA, Peter STOUGAARD.....	61
<b>The Modeling of Development Stages of Sunflower on the Basis of Temperature and Photoperiod</b> Sassan REZADOUST, Mohamad Mehdi KARIMI, Saiid VAZAN, Mohamad Reza ARDAKANI, Ali KASHANI, Esmael GHOLINEZHAD .....	66

<b>Carotenoid Accumulation by Carrot Storage Roots in Relation to Nitrogen Fertilization Level</b>	
Marek GAJEWSKI, Zenon WEGLARZ, Anna SEREDA, Marta BAJER, Agnieszka KUCZKOWSKA, Michał MAJEWSKI .....	71
<b>Evaluation of several Quality Criteria of Low Calorie Pumpkin Dessert</b>	
Canan Ece TAMER, Bige İNCEDAYI, Sibel PARSEKER YÖNEL, Senem YONAK, Ömer Utku ÇOPUR.....	76
<b>Distribution of Gossypol Glands on Cotton (<i>Gossypium hirsutum</i> L.) Genotypes</b>	
Yuksel BOLEK, Muhammed Said FIDAN, Mustafa OGLAKCI.....	81
<b>Analysis of Grain Yield and Cytolytic Degradation of Winter and Spring Barley Cultivars</b>	
Alojzije LALIC, Gordana SIMIC, Josip KOVACEVIC, Dario NOVOSELOVIC, Daniela HORVAT, Ivan ABICIC, Lidija LENART, Robert MIJAKOVIC, Zaneta UGARCIC-HARDI .....	88
<b>Effect of Growth Stage and Pod Position on Soybean Seed Isoflavone Concentration</b>	
Abdel Rahman Mohammad AL-TAWAHA .....	92
<b>The Application of the Cluster Analysis in Recognizing Weather Patterns Conducive to Large and Small Crops of Mid-late Onion Cultivars (<i>Allium cepa</i> L.) in Poland</b>	
Robert KALBARCZYK.....	100
<b>Effects of Hydro-Priming Duration on Seedling Vigour and Grain Yield of Pinto Bean (<i>Phaseolus vulgaris</i> L.) Cultivars</b>	
Kazem GHASSEMI-GOLEZANI, Afsaneh CHADORDOOZ-JEDDI, Safar NASROLLAHZADEH, Mohammad MOGHADDAM.....	109
<b>Effects of Water Stress and Pod Position on the Seed Quality of Chickpea (<i>Cicer arietinum</i> L.) Cultivars</b>	
Kazem GHASSEMI-GOLEZANI, Tahereh MOUSABEYGI, Yaeghoob RAEY, Saeid AHARIZAD .....	114
<b>Potential Activity of Basil Plants as a Source of Antioxidants and Anticancer Agents as Affected by Organic and Bio-organic Fertilization</b>	
Hanan Anwar Aly TAIE, Zeinab Abd-El Rahman SALAMA, Samir RADWAN .....	119
<b>The Influence of Salt Stress on Seed Germination, Growth and Yield of Canola Cultivars</b>	
Ahmad BYBORDI .....	128
<b>Predicting Cotton Seedling Emergence for Cold Tolerance: <i>Gossypium hirsutum</i> L.</b>	
Yuksel BOLEK .....	134
<b>Effects of Various Chemical Agents for Alleviation of Drought Stress in Rice Plants (<i>Oryza sativa</i> L.)</b>	
Gaber Gomaa SHEHAB, Osama Kansowa AHMED, Hossam Saad EL-BELTAGI .....	139

<b>Period of Weed Control in Okra [<i>Abelmoschus esculentus</i> (L.) Moench] as Influenced by Varying Rates of Cattle Dung and Weeding Regimes</b> Oyeyemi Adigun DADA, Ojo Olajumoke FAYINMINNU .....	149
<b>Differences in Traits of Seeds and Seedlings of Perennial Ryegrass Cultivars after Nine Months Storage at Different Temperatures</b> Vlatka ROZMAN, Gordana BUKVIĆ, Anita LIŠKA, Renata BALIČEVIĆ, Andrijana EĐED, Sonja PETROVIĆ.....	155
<b>The Effects of Different Acid Treatment and Stratification Duration on Germination of <i>Cercis siliquastrum</i> L. Seeds</b> Murat ZENCİRKİRAN, Zeynal TÜMSAVAŞ, Halil ÜNAL .....	159
<b>The Effect of Drought Stress on Grain Yield, Yield Components and some Quality Traits of Durum Wheat (<i>Triticum turgidum</i> ssp. <i>durum</i>) Cultivars</b> Hasan KILIÇ, Tacettin YAĞBASANLAR.....	164
<b>Influence of Sowing Properties on Winter Oilseed Rape in a Sub-humid Mediterranean Environment</b> Mehmet SINCIK, Abdurrahim Tanju GOKSOY, Zeki Metin TURAN .....	171
<b>Influence of some “Terroir Viticole” Factors on Quantity and Quality of Grapes</b> Liliana ROTARU, Feodor FILIPOV, Mihai MUSTEA, Vasile STOLERU	
<b>Evaluation of Yield, Dry Matter Accumulation and Leaf Area Index in Wheat Genotypes as Affected by Terminal Drought Stress</b> Morteza Sam DALIRIE, Raouf Seyed SHARIFI, Salim FARZANEH .....	182
<b>Graft Incompatibility Influence on Assimilating Pigments and Soluble Sugars Amount of some Pear (<i>Pyrus sativa</i>) Cultivars</b> Gheorghii CIOBOTARI, Maria BRINZA, Aliona MORARIU, Gica GRADINARIU.....	187
<b>The Influence of Cultivation and Fertilization Methods on Yield of Eggplants Grown in a Polyethylene Greenhouse</b> Danut MANIUTIU, Rodica SIMA.....	193
<b>Assessment of Tolerance Level of some Cotton (<i>Gossypium hirsutum</i> L.) Varieties against <i>Verticillium wilt</i> (<i>Verticillium dahliae</i> Kleb.)</b> Emine KARADEMİR, Çetin KARADEMİR, Remzi EKİNCİ, Behzat BARAN, Abuzer SAĞIR.....	196
<b>Some Genetic, Biochemical and Morphological Analysis of Selected Powdery Mildew Strains at the Beginning of Sporulation on Barley</b> Elena HLINKOVÁ, Milan BOBÁK, Vladena BAUEROVÁ-HLINKOVÁ, Ján RAFAY.....	203
<b>Influence of Genotype on Microtuber Production</b> Andreea NISTOR, Gheorghe CAMPEANU, Nicolae ATANASIU, Nicoleta CHIRU, Diana KARÁCSONYI.....	209
<b>The Effect of Chitosan on the Organogenesis of Oil Palm Embryo-Derived Callus</b> Kantamaht KANCHANAPOOM, Amornrat PHONGDARA, Kamnoon KANCHANAPOOM.....	213

<b>Genetic Diversity of several Inbreed Sweet Corn Lines for the Main Characters of the Ear</b>	
Carmen CALBOREANU, Marin ARDELEAN, Voichita HAS, Ioan HAS, Mirela CORDEA, Agnes BORS..	218
<b>Combining Ability and Heterosis for Yield and Fiber Quality Properties in Cotton (<i>G. hirsutum</i> L.) obtained by Half Diallel Mating Design</b>	
Emine KARADEMIR, Oktay GENÇER.....	222
<b>Analysis of Yield Stability of Wheat Genotypes Using New Crop Properties Balance Index (CPBI) Method</b>	
Vali FEIZIASL, Jafar JAFARZADEH, Ahmed AMRI, Yusef ANSARI, Seyed Bahman MOUSAVI, Mohammad Ahmadpour CHENAR .....	228
<b>The Variability of Juvenile Period, Fruits Size and Response to Diseases Attack on F<sub>1</sub> Interspecific Apple Hybrids and the Efficiency of Selection</b>	
Radu E. SESTRAS, Catalina DAN, Doru PAMFIL, Adriana F. SESTRAS, Lorentz JÄNTSCHI, Sorana D. BOLBOACA.....	234
<b>Variability of Different Pear Hybrid Populations in Terms of Hybridization Performance and the Response to Fire Blight (<i>Erwinia amylovora</i>) Attack</b>	
Yasemin EVRENOSOĞLU, Adalet MISIRLI, M. Emin AKÇAY, Ali ÜNAL, Nihal ACARSOY, Nilay ÖZDEMİR, Emre BİLEN, Özlem BOZTEPE, Evren GÜNEN.....	241
<b>Tree and Fruit Characteristics of Various Apple Genotypes Obtained through Mutagenesis</b>	
Gheorghe CAMPEANU, Gabriela NEAȚA, Gina DARJANSCHI, Rodica STAN .....	248
<b>Funding Biodiversity Protection in Central and Eastern Europe – A Case Study of Bosnia Herzegovina</b>	
Mirza DAUTBASIC, Florin IORAS, Ioan Vasile ABRUDAN, Jega RATNASINGAM .....	252
<b>Policy Options for Private Forest Owners in Western Balkans: A Qualitative Study</b>	
Mersudin AVDIBEGOVIĆ, Dragan NONIĆ, Stjepan POSAVEC, Nenad PETROVIĆ, Bruno MARIĆ, Vojislav MILIJIĆ, Silvija KRAJTER, Florin IORAS, Ioan Vasile ABRUDAN .....	257
<b>Tree Richness and Climatic Dominance in Different Districts of Beijing City, China</b>	
Jie DUAN, Luyi MA, Liming JIA, Zhibo CHEN, Wenrui CHE, Zhongkui JIA.....	262