



NOTULAE BOTANICAE
HORTI AGROBOTANICI
CLUJ-NAPOCA

2019 Volume 47, Issue 3

*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
Romanian Academy of Agricultural and Forestry Sciences
Horticulture and Forestry Society from Transylvania*

Abstracted and/or indexed:

- Clarivate Analytics, Master Journal List - Science Citation Index Expanded and Journal Citation Reports/Science Edition, <http://ip-science.thomsonreuters.com/mjl> (IF 2018=0.624)
- Scopus - Elsevier, <http://www.scopus.com> (CiteScore 2018, metrics 2019=0.81: <https://www.scopus.com/sourceid/17700156420>)
- ProQuest, <http://www.proquest.com/>
- Centre for Agriculture and Biosciences International (CABI), <https://www.cabdirect.org/>
- Chemical Abstracts Service (CAS), <https://www.cas.org/>
- Russian Scientific and Technical Information Institute (VINITI), <http://www.viniti.ru>
- Bielefeld Academic Search Engine (BASE), <http://www.base-search.net>
- Google Scholar, <http://scholar.google.com>
- British Library Direct (BLD), <http://explore.bl.uk/>
- Mendeley, <https://www.mendeley.com>
- The European Library, <http://www.theeuropeanlibrary.org>
- Harvard Library, <http://hollis.harvard.edu>
- Tianjin University of Finance and Economics (TJUFE), <http://en.tjufe.findplus.cn>
- Open Archives Initiative Protocol for Metadata Harvesting (OAIster), <http://www.oaister.org>
- Ulrich's Periodicals Directory, <http://www.ulrichsweb.com>
- Elton B Stephens Company (EBSCO), <http://www.ebscohost.com>
- Information Matrix for the Analysis of Journals (MIAR), <http://miar.ub.edu/>

First published 1965

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

www.notulaebotanicae.ro

Editorial office
[Notulae Botanicae Horti Agrobotanici Cluj-Napoca](#) ©
AcademicPres
University of Agricultural Sciences and Veterinary Medicine
3-5 Mănăştur, 400372 Cluj-Napoca, Romania
Phone: +40 264-596 384 ext. 176; Fax +40 364-819 343
E-mail: rsestras@notulae.ro

Editorial Board

Editor-in-Chief

- [Radu E. SESTRAS](#), University of Agricultural Sciences and Veterinary Medicine 3-5 Manastur St., 400372, Cluj-Napoca, Romania

Advisory Editors

- Cornel CĂTOI, University of Agricultural Sciences and Veterinary Medicine, 3-5 Manastur St., 400372 Cluj-Napoca, Romania
- Doru C. PAMFIL, University of Agricultural Sciences and Veterinary Medicine, 3-5 Manastur St., 400372 Cluj-Napoca, Romania
- Viorel MITRE, University of Agricultural Sciences and Veterinary Medicine, 3-5 Manastur St., 400372 Cluj-Napoca, Romania

Associate Editors

- Sorana D. BOLBOACĂ, "Iuliu Hatieganu" University of Medicine and Pharmacy, Department of Medical Informatics and Biostatistics, Romania
- Monica BOSCAIU, Universitat Politècnica de València, Spain
- Liviu HOLONEC, University of Agricultural Sciences and Veterinary Medicine, 3-5 Manastur St., 400372 Cluj-Napoca, Romania
- Lorentz JANTSCHI, Technical University of Cluj-Napoca, 15 Constatin Daicoviciu, 400020, Cluj-Napoca, Romania
- Felicia LOGHIN, "Iuliu Hatieganu" University of Medicine and Pharmacy, Department of Toxicology, Romania
- Leon MUNTEAN, University of Agricultural Sciences and Veterinary Medicine, 3-5 Manastur St., 400372 Cluj-Napoca, Romania
- Ioan NEGRUTIU, Ecole Normale Supérieure, RDP-UMR 9938 CNRS, INRA, ENS, 69364 Lyon, France
- Ioana POP, University of Agricultural Sciences and Veterinary Medicine, 3-5 Manastur St., 400372 Cluj-Napoca, Romania
- Adriana F. SESTRAS, University of Agricultural Sciences and Veterinary Medicine, 3-5 Manastur St., 400372 Cluj-Napoca, Romania
- Dan Cristian VODNAR, University of Agricultural Sciences and Veterinary Medicine, 3-5 Manastur St., 400372 Cluj-Napoca, Romania

Editorial Board - Scientific Members & Editors

- Ioan Vasile ABRUDAN, Transilvania University, 1 Sirul Beethoven St., 500123 Brasov, Romania
- Douglas D. ARCHBOLD, University of Kentucky, Lexington, KY 40546-0091, United States
- Valerian BALAN, State Agrarian University of Moldova, 44 Mircești St. 2049 Chișinău, Moldova
- Dimitrios J. BILALIS, Agricultural University of Athens, Iera Odos, 75, 11855, Athens, Greece
- Maria Yordanova BOROVIKOVA, Institute of Agriculture, Kyustendil, 2500, Bulgaria
- Anca Dana BUZOIANU, “Iuliu Hatieganu” University of Medicine and Pharmacy, 8 Victor Babes, Cluj-Napoca, Romania
- Sorin Mihai CÎMPEANU, University of Agronomic Sciences and Veterinary Medicine, 59 Bulevardul Marasti, 011464 Bucharest, Romania
- Gheorghe CIMPOIEȘ, State Agrarian University of Moldova, 44 Mircești St., 2049 Chișinău, Moldova
- Kamal CHOWDHURY, Claflin University, 400 Magnolia St., Orangeburg, SC 29115, United States
- Valeriu V. COTEA, University of Agricultural Sciences and Veterinary Medicine, 3 Aleea Mihail Sadoveanu, 700490 Iași, Romania
- Lucian A. CURTU, Transilvania University, 1 Sirul Beethoven St., 500123 Brasov, Romania
- Sezai ERCISLI, Ataturk University, Horticulture Dept., 25240 Erzurum, Turkey
- Francisco FUENTES, Pontificia Universidad Católica de Chile, Facultad de Agronomía e Ingeniería Forestal, Av. Vicuña Mackenna 4860, Macul, Santiago, Chile
- Marek GAJEWSKI, Warsaw University of Life Sciences, 166 Nowoursynowska, 02-787 Warszawa, Poland
- Imre HOLB, Univ. Agricultural Sciences of Debrecen, 138 Böszörményi, 4032 Debrecen, Hungary
- Maurizio LAMBARDI, CNR, NRC IVALSIA, Polo Scientifico, 10 via Madonna del Piano 10, 50019 Sesto Fiorentino, Firenze, Italy
- Andrea LUVISI, University of Salento, DiSTeBA, via Prov. le Monteroni, 73100 Lecce, Italy
- Amarendra Narayan MISRA, Fakir Mohan University, Vyasa Vihar, Balasore-756019, India
- Ioan NEGRUTIU, Ecole Normale Supérieure, RDP-UMR 9938 CNRS, INRA, ENS, 69364 Lyon, France
- Jaime PROHENS, Universitat Politècnica de València, Spain
- Chen QIN, School of Life Science, Shanghai Univ., 99 Shangda R., Baoshan District, Shanghai, 200436, China
- Albert REIF, University of Freiburg, Tennenbacherstr. 4, D-79085 Freiburg, Germany
- Adrián RODRÍGUEZ-BURRUEZO, Universitat Politècnica de València, Spain
- Klaus SCHALLER, Hochschule Geisenheim University, Department of Applied Biology, P.O. Box 1154, D-65366 Geisenheim, Germany
- Velibor SPALEVIC, University of Montenegro, Geography Dept., D. Bojovica, 81400 Niksic, Montenegro
- Silvia STRAJERU, Genetic Resources Bank of Suceava, 17 Bd. 1 Decembrie 1918, 5800 Suceava, Romania
- Oscar VICENTE, IBMCP Universitat Politècnica de València, Camino de Vera s/n. 46022 Valencia, Spain
- Vasile VÎNTU, University of Agricultural Sciences and Veterinary Medicine, 3 Aleea Mihail Sadoveanu, 700490 Iași, Romania
- Qiang-Sheng WU, Yangtze University, College of Horticulture and Gardening, 88 Jingmi Road, 434025 Jingzhou, China

Technical and Administrative Editors

- Adriana D. BACIU, University of Agricultural Sciences and Veterinary Medicine, 3-5 Manastur St., 400372 Cluj-Napoca, Romania
- Cătălina DAN, University of Agricultural Sciences and Veterinary Medicine, 3-5 Manastur St., 400372 Cluj-Napoca, Romania
- Mihail KANTOR, Claflin University, 400 Magnolia St., Orangeburg, SC 29115, United States
- Lucica MIHALTE, University of Agricultural Sciences and Veterinary Medicine, 3-5 Manastur St., 400372 Cluj-Napoca, Romania
- Alina M. TRUȚĂ, University of Agricultural Sciences and Veterinary Medicine, 3-5 Manastur St., 400372 Cluj-Napoca, Romania

Journal Secretary

- Roxana L. STOIAN, University of Agricultural Sciences and Veterinary Medicine, 3-5 Manastur St., 400372 Cluj-Napoca, Romania
- Silviu L. MIC, University of Agricultural Sciences and Veterinary Medicine, 3-5 Manastur St., 400372 Cluj-Napoca, Romania

Linguistic Editors

- Mihaela RUSU, University of Agricultural Science and Veterinary Medicine, 3-5 Manastur St., 400372 Cluj-Napoca, Romania
- Rodica STAN, University of Agricultural Science and Veterinary Medicine, 3-5 Manastur St., 400372 Cluj-Napoca, Romania

Technical Support

- Diana MIRCEA, University of Agricultural Sciences and Veterinary Medicine, 3-5 Manastur St., 400372 Cluj-Napoca, Romania
- Ioana Maria PLEȘA, University of Agricultural Sciences and Veterinary Medicine, 3-5 Manastur St., 400372 Cluj-Napoca, Romania
- Diana Alexandra POP, University of Agricultural Sciences and Veterinary Medicine, 3-5 Manastur St., 400372 Cluj-Napoca, Romania
- Paula STAN (GAVRIS), University of Agricultural Sciences and Veterinary Medicine, 3-5 Manastur St., 400372 Cluj-Napoca, Romania
- Irina TODÉA, University of Agricultural Sciences and Veterinary Medicine, 3-5 Manastur St., 400372 Cluj-Napoca, Romania

Notice

The Editorial Board of **Notulae Botanicae Horti Agrobotanici Cluj-Napoca** 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.

Material Disclaimer

The authors are fully responsible for their work and they hold sole responsibility for the articles published in the journal. The editors, editorial board and publisher do not assume any responsibility for the articles contents and for the authors' views expressed in their contributions.

Aims and scope

[Notulae Botanicae Horti Agrobotanici Cluj-Napoca](#) is a peer-reviewed quarterly (beginning in 2019) 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 Horti Agrobo**) 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.

Publication Frequency

Quarterly (four issues per volume/year). Beginning in 2019, the journal appears quarterly, with the next coverage over the four annual numbers (combined months):

Issue 1: January-March

Issue 2: April-June

Issue 3: July-September

Issue 4: October-December

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 ([WAME](#)), the International Committee of Medical Journal Editors ([ICMJE](#)), Consolidated Standards of Reporting Trials ([Consort](#)).

Prof. dr. Radu E. SESTRAS
Editor-in-Chief

Table of Contents

Editorial

[Introduction pages](#)

Radu E. SESTRAS

I-XI

[PDF](#)

Review Articles

[Ecology, Cultivation and Utilization of the Aromatic Greek Oregano \(*Origanum vulgare* L.\): A Review](#) 545-552

[PDF](#)

Elpiniki SKOUFOGIANNI, Alexandra D. SOLOMOU, Nicholas G. DANALATOS

Research Articles

[Some Biochemical Characteristics of Fruit Samples of *Sambucus nigra* Genotypes from Northeastern Turkey](#) 553-557

[PDF](#)

Tuncay KAN

[Influence of Selected Antibiotics on the Tomato Regeneration in *in vitro* Cultures](#) 558-564

[PDF](#)

Aneta GERSZBERG, Izabela GRZEGORCZYK-KAROLAK

[Phytochemical and Antioxidant Properties of Fresh Fruits and Some Traditional Products of Wild Grown Raspberry \(*Rubus idaeus* L.\)](#) 565-573

[PDF](#)

Bojana VELJKOVIĆ, Violeta JAKOVLJEVIĆ, Milan STANKOVIĆ, Zora DAJIC-STEVANOVIĆ

[The Productive Capacity and Quality of Several Walnut Cultivars \(*Juglans regia* L.\) Grown in North Oltenia, Romania](#) 574-579

[PDF](#)

Mihai BOTU, Yazan FJ. ALABEDALLAT, Felicia BUCURA, Elisabeta Irina GEANA, Marius VLADU

[Non-Destructive Leaf Area Estimation Model for Overall Growth Performances in Relation to Yield Attributes of Cassava \(*Manihot esculenta* Cranz\) under Water Deficit Conditions](#) 580-591

[PDF](#)

Piyanan PIPATSITTEE, Apisit EIUMNOH, Patchara PRASEARTKUL, Navavit PONGANAN, Kanyarat TAOTA, Sumaid KONGPUGDEE, Kampol SAKULLEERUNGROJ, Suriyan CHA-UM

[Priming with Vitamin U Enhances Cold Tolerance of Lettuce \(*Lactuca sativa* L.\)](#) 592-598

[PDF](#)

Laszlo FODORPATAKI, Katalin MOLNAR, Bernat TOMPA, Sebastian R. C. PLUGARU

[Biochemical Characterisation and Sensory Evaluation of Differently Coloured and Shaped Tomato Cultivars](#) 599-607

[PDF](#)

Aylin Celile OLUK, Atilla ATA, Mustafa ÜNLÜ, Ebru YAZICI, Zafer KARAŞAHİN, Evren Çağlar EROĞLU, İhsan CANAN

- Arbuscular Mycorrhiza Improves Leaf Food Quality of Tea Plants** 608-614
Ya-Dong SHAO, De-Jian ZHANG, Xian-Chun HU, Qiang-Sheng WU, Chang-Jun JIANG, Xiu-Bing GAO, Kamil KUČA [PDF](#)
- Investigation of Mineral and Vitamin C Contents in Different Parts of Beetroots (*Beta vulgaris* L.)** 615-620
Dóra SZÉKELY, Diána FURULYÁS, Mónika STÉGER-MÁTÉ [PDF](#)
- Phytosociology, Distribution and Ecology of a Willow Community with False Tamarisk from the Lotru Valley (Romanian Carpathians)** 621-628
Ilie Silvestru NUȚĂ, Mariana NICULESCU [PDF](#)
- Optimization of the Solid-Liquid Extraction Process of Phenolic Compounds from Mulberry Fruit** 629-633
Emilija KOSTIĆ, Biljana ARSIĆ, Milan MITIĆ, Danica DIMITRIJEVIĆ, Emilija PECEV MARINKOVIC [PDF](#)
- Antioxidant Properties and Anti-inflammatory Effects of the Hydroethanolic Extracts of Two Varieties of Bayberry fruit (*Myrica rubra* Sieb et Zucc.) Prepared by Stirring and Ultrasonic Methods** 634-642
Kuan-Hung LIN, Chun-Ping LU, Jia-Wei CHAO, Yi-Ping YU [PDF](#)
- Composition of *Lavandula angustifolia* L. cultivated in Transylvania, Romania** 643-650
Camelia OROIAN, Antonia ODAGIU, Csaba Pal RACZ, Ioan OROIAN, Iulia C. MUREȘAN, Marcel DUDA, Marioara ILEA, Ioan BRAȘOVEAN, Cristian IEDERAN, Zamfir MARCHIȘ [PDF](#)
- Tyrosinase Inhibitory and Antioxidant Activity of Wild *Prunus spinosa* L. Fruit Extracts as Natural Source of Bioactive Compounds** 651-657
Milica I. STANKOVIĆ, Vesna Lj. SAVIĆ, Jelena V. ŽIVKOVIĆ, Vanja M. TADIĆ, Ivana A. ARSIĆ [PDF](#)
- Physiological Responses and Tolerance Evaluation of Five Poplar Varieties to Waterlogging** 658-667
Zhongcheng ZHOU, Gang LI, Wei CHAO, Feng XU, Xiaomei SUN, Zexiong CHEN [PDF](#)
- Biocontrol of Pear Postharvest Decay by Kombucha** 668-675
Junping TAN, Xian ZHOU, Shuiyuan CHENG, Zexiong CHEN, Yuanyuan GOU, Jiabao YE, Feng XU [PDF](#)
- Cross Compatibility Analysis to Identify Suitable Parents of *Tagetes erecta* and *T. patula* for Heterotic Hybrid Breeding** 676-682
Huali ZHANG, Haibo XIN, Richen CONG, Zijing LI, Lina SONG, Zunzheng WEI [PDF](#)
- Physiological Effects of the Fungicide Azoxystrobin on Wheat Seedlings under Extreme Heat** 683-690
Chiu-Yueh LAN, Kuan-Hung LIN, Wen-Dar HUANG, Chang-Chang CHEN [PDF](#)
- The Propagation of *Rosa gallica* ‘Tuscany Superb’ by Root Cuttings with the Use of IBA and Biostimulants** 691-698
Marta Joanna MONDER, Konrad WOLIŃSKI, Maciej NIEDZIELSKI [PDF](#)
- Low Level of Genetic Variation and Signs of Isolation in the Native Hungarian Sea Buckthorn Population Compared to Cultivated Specimens** 699-705
Mária HÖHN, Magdolna SZELÉNYI, Júlia HALÁSZ [PDF](#)

- Growth, Physiological and Biochemical Responses of two Greek Cotton Cultivars to Salt Stress and their Impact as Selection Indices for Salt Tolerance** 706-715
[PDF](#)
 Maria-Anna MOUSSOURAKI, Eleni TANI, Anna VELLIU, Maria GOUFA, Maria PSYCHOGIOU, Ioannis E. PAPADAKIS, Eleni M. ABRAHAM
- Effects of Different Shading Rates on the Photosynthesis and Corm Weight of Konjac Plant** 716-721
[PDF](#)
 Yaoguo QIN, Zesheng YAN, Honghui GU, Zhengxiang WANG, Xiong JIANG, Zhizhou CHEN, Fuqing YANG, Cuiqin YANG
- Optimization of a Rapid Propagation System for Mass Production of High-Quality Plantlets of *Trichosanthes kirilowii* cv. 'Yuelou-2' via Organogenesis** 722-728
[PDF](#)
 Xiao Dong CAI, Jin Jin CHENG, Yuan Shan ZHANG
- Assessment of New Sweet Cherry Cultivars Released at RSFG Iași, Romania** 729-733
[PDF](#)
 Elena IUREA, Margareta CORNEANU, Mădălina MILITARU, Sorina SÎRBU
- Efficient Approaches to in vitro Multiplication of *Lilium candidum* L. with Consistent and Safe Access throughout Year and Acclimatization of Plant under Hot-Summer Mediterranean (Csa Type) Climate** 734-742
[PDF](#)
 Sheida DANESHVAR ROYANDAZAGH
- Optimization and Characterization of Extracellular Cellulase Produced by Native Egyptian Fungal Strain** 743-750
[PDF](#)
 Gamal El-BAROTY, Faten ABOU-ELELLA, Hassan MOAWAD, Talaat N. EL-SEBAI, Fatma ABDULAZIZ, A. A. KHATTAB
- Estimating Nitrogen and Chlorophyll Status of Romaine Lettuce Using SPAD and at LEAF Readings** 751-756
[PDF](#)
 Rodrigo Omar MENDOZA-TAFOLLA, Porfirio JUAREZ-LOPEZ, Ronald-Ernesto ONTIVEROS-CAPURATA, Manuel SANDOVAL-VILLA, Iran ALIA-TEJACAL, Gelacio ALEJO-SANTIAGO
- Various Light Quality including QD-LED Affect Growth and Leaf Color of Red Romaine Baby Leaf Lettuce** 757-762
[PDF](#)
 Su Jung HAN, In-Lee CHOI, Ju Young KIM, Lixia WANG, Joo H. LEE, Ki-Young CHOI, Yongduk KIM, Mohammad Z. ISLAM, Young-Tack LEE, Ho-Min KANG
- Antioxidant Effects of Walnut Leaves and Sweet Cherry Stems on Color, Lipid Oxidation and Sensory Quality of Cooked Pork Patties** 763-771
[PDF](#)
 Andrei Iulian BORUZI, Violeta NOUR
- Transcriptome-based Discovery of AP2/ERF Transcription Factors Related to Terpene Trilactones Synthesis in *Ginkgo biloba*** 772-783
[PDF](#)
 Linling LI, Honghui YUAN, Sanxing ZHA, Jie YU, Xian XIAO, Kun DENG, Shuiyuan CHENG, Hua CHENG
- Nutritional Value of Garden Dill (*Anethum graveolens* L.), Depending on Genotype** 784-791
[PDF](#)
 Anita BIESIADA, Kamil KĘDRA, Katarzyna GODLEWSKA, Antoni SZUMNY, Agnieszka NAWIRSKA-OLSZAŃSKA

- High-Density Kinetic Analysis of the Metabolomic and Transcriptomic Response of *Ginkgo biloba* Flavonoids Biosynthesis to Selenium Treatments** 792-803
[PDF](#)
 Linling LI, Jie YU, Honghui YUAN, Sanxing ZHA, Kun DENG, Xian XIAO, Yanyan LUO, Shuiyuan CHENG, Hua CHENG
- The Effect of Therapeutic Horticulture on Depression and Kynurenine Pathways** 804-812
[PDF](#)
 Timea HITTER (BURU), Éva KÁLLAY, Loredana E. OLAR, Rázvan ŞTEFAN, Erzsebet BUTA, Silvia CHIOREAN, Maria CANTOR, Ionel PAPUC
- Physicochemical Quality, Antioxidant Capacity and Nutritional Value in Tuberos Roots of Some Wild *Dahlia* Species** 813-820
[PDF](#)
 Esteban A. RIVERA-ESPEJEL, Oscar CRUZ-ALVAREZ, José M. MEJÍA-MUÑOZ, María R. GARCÍA-MATEOS, María T.B. COLINAS-LEÓN, María Teresa MARTÍNEZ-DAMIÁN
- Growth, Photosynthetic Pigments, Phenolic, Glucosinolates Content and Antioxidant Capacity of Broccoli Sprouts in Response to Nanoselenium Particles Supply** 821-828
[PDF](#)
 Simona Ioana VICAS, Simona CAVALU, Vasile LASLO, Mariana TOCAI, Traian O. COSTEA, Liviu MOLDOVAN
- Comparison of the Chemical Composition of Essential Oils Isolated from Two Thyme (*Thymus vulgaris* L.) Cultivars** 829-835
[PDF](#)
 Aneta WESOŁOWSKA, Dorota JADCZAK
- Effect of Maturation Degree on the Fixed Oil Chemical Composition, Phenolic Compounds, Mineral Nutrients and Antioxidant Properties of *Pistacia lentiscus* L. Fruits** 836-847
[PDF](#)
 Kaissa BOUDIEB, Sabrina AIT SLIMANE-AIT KAKI, Hayet AMELLAL-CHIBANE
- The Impact of Ammonium to Nitrate Ratio on the Growth and Nutritional Status of Kale** 848-859
[PDF](#)
 Anna ASSIMAKOPOULOU, Ioannis SALMAS, Nikolaos KOUNAVIS, Alexandros I. BASTAS, Vasiliki MICHOPPOULOU, Evaggelos MICHAIL
- The Red Beech at the “Montagna di Torricchio”, Marche Region, Central Italy** 860-866
[PDF](#)
 Kevin CIANFAGLIONE, Franco PEDROTTI
- Validation of Gender Specific CAPS Marker in Turkish Fig (*Ficus carica* L.) Collection and F1 Progenies** 867-871
[PDF](#)
 Hatice IKTEN, Yeliz YILMAZ
- Interactive Effects of Plant Growth-Promoting Rhizobacteria and Phosphates Sources on Growth and Phosphorus Nutrition of Soybean under Moderate Drought** 872-880
[PDF](#)
 Vladimir Ion ROTARU, Luxita RISNOVEANU
- Seed Vigour Tests to Estimate Seedling Emergence in Cress (*Lepidium sativum* L.) Seed Lots** 881-886
[PDF](#)
 Ibrahim DEMIR, Burcu B. KENANOGLU, Eren ÖZDEN
- Foliar N:P Stoichiometry in *Aralia elata* Distributed on Different Slope Degrees** 887-895
[PDF](#)
 Hongxu WEI, Hengtian ZHAO, Xin CHEN

- Effect of Different DNA Demethylating Agents on *in vitro* Cultures of Peach Rootstock GF 677** 896-902
Miroslav BARÁNEK, Miroslav OTMAR, Marcela KREČMEROVÁ, Aleš EICHMEIER, Jana MOUDRÁ, Zuzana MYNARZOVÁ [PDF](#)
- Characterization and Tissue-specific Expression of *bHLH* Genes in *Dimocarpus longan*** 903-912
Wei ZHENG, Xueming DONG, Xuefei YU, Qiuying ZHANG, Ning CHEN [PDF](#)
- Cytological Investigation in Two Mutants of the Hybrid Grapevine ‘Niagara’** 913-920
Neiva Izabel PIEROZZI, Mara Fernandes MOURA [PDF](#)
- The Influence of Aqueous Extracts from *Stellaria media* L. on the Growth of *Zea mays* L. Cultivars** 921-928
Peiman ZANDI, Katarzyna MOŹDŹEŃ, Beata BARABASZ-KRASNY, Joanna PUŁA, Alina STACHURSKA-SWAKOŃ, Yaosheng WANG [PDF](#)
- The eggplant yield and fruit composition as affected by genetic factor and biostimulant application** 929-938
Alicja POHL, Aneta GRABOWSKA, Andrzej KALISZ, Agnieszka SEKARA [PDF](#)
- High frequency *2n* pollen formation in black poplar (*Populus nigra* L.) induced by colchicine** 939-946
Wenting XU, Yan ZHANG, Liqin GUO, Jian ZHAO, Zunzheng WEI, Jinfeng ZHANG [PDF](#)
- Application of ITAP-PCR Techniques to Assess the Genetic Variability of Selected Cultivars of Winter Triticale (\times *Triticosecale* Wittmack)** 947-953
Izabela SZUĆKO, Anna MAĐRACH [PDF](#)
- Biohardening of *Arabidopsis thaliana* Seeds and Seedlings with Fraser Photinia Associated Bacterium (PGB_*invit*) in *in vitro* Conditions** 954-961
Maria BATOOL, Özlem AKKAYA, Mine GÜL ŞEKER, Yelda ÖZDEN ÇİFTÇİ [PDF](#)
- Induction of Lateral Branching of Sweet Cherry and Plum in Fruit Nursery** 962-969
Jan WOLF, Tomáš KISS, Ivo ONDRÁŠEK, Tomáš NEČAS [PDF](#)
- Genetic Diversity and Population Structure Analysis of Sand Pear (*Pyrus pyrifolia*) ‘Nakai’ Varieties Using SSR and AFLP Markers** 970-979
Jie CAO, Zhongcheng ZHOU, Junfan TU, Shuiyuan CHENG, Jinglei YAO, Feng XU, Guiyuan WANG, Jian ZHANG, Jiabao YE, Yongling LIAO, Weiwei ZHANG, Zexiong CHEN [PDF](#)
- Vegetative Growth, Flowering and Attributes of Physicochemical Quality in Blackberry ‘Tupy’ Fruits Grown in Chihuahua, Mexico** 980-986
Nydia E. MORENO-ROBLES, Juan L. JACOBO-CUELLAR, Ramona PÉREZ-LEAL, María J. RODRÍGUEZ-ROQUE, Rafael Á. PARRA-QUEZADA, Nuvia ORDUÑO-CRUZ, Oscar CRUZ-ALVAREZ [PDF](#)
- Evaluation of Genetic Stability and Effects of Plant Growth Regulators for *in vitro* Propagation of Underutilized *Vitis amurensis* ‘Cheongsan’** 987-994
Joon-Ho KWON, Young-Sik PARK, Si-Hong KIM, Jae-Yun HEO [PDF](#)

Note

Seed Treatment Techniques to Improve Germination of Wild Asparagus (*Asparagus acutifolius* L.), a Potential New Crop 995-1000 [PDF](#)

Nikolaos KATSENIOS, Ioannis E. ROUSSIS, Aspasia EFTHIMIADOU, Ioanna KAKABOUKI, Dimitrios BILALIS

A New Measurement Model to Estimate the Intensity of Acrotony on the Latent Buds of Grapevine Canes (*Vitis vinifera* L.) 1001-1004 [PDF](#)

Ioannis DASKALAKIS, Katerina BINIARI

Editorial office

[Notulae Botanicae Horti Agrobotanici Cluj-Napoca](#) ©

AcademicPres

University of Agricultural Sciences and Veterinary Medicine

3-5 Mănăştur, 400372 Cluj-Napoca, Romania

Phone: +40 264-596 384; Fax +40 364-819 343

rsestras@notulae.ro