



NOTULAE BOTANICAE
HORTI AGROBOTANICI
CLUJ-NAPOCA

2010 Volume 38, Issue 2
Special Issue

*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>
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- 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

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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.

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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



Conference Information:

12th International BIOVEG Symposium “Plant Biodiversity and Food Diversification”
University of Agricultural Sciences and Veterinary Medicine, September 27-29, 2010
Cluj-Napoca, Romania

Scientific Journeys of the BIOVEG network

Aim and scope

The aim of the BIOVEG Symposium is to present the latest scientific results on all aspects of research in plant biotechnology. Various tools are now available to describe the biological diversity of plant species useful for food diversification. They allow fine analysis of basic components, but also their interactions, using different and complementary disciplines such as genetics, microbiology, biochemistry and physiology.

The involvement of “Plant biodiversity” and “Food diversification” in one symposium is not a common process. However, the FAO data (2008) relevant to the state of the food worldwide are clear on at least two main points:

I) there is a well defined relationship between quality of diet and dietary diversification;

II) the most affected countries are India, countries in sub-Saharan Africa, the Pacific area of Asia and China as they have a high potential of biodiversity.

If food is a vital necessity, the overall diet is different between rich and poor countries. In poor countries, cereals, roots and tubers cover 66% of eaten plants. In rich countries, fruits and vegetables play a much larger role (19% vs. 11%). In rich countries, attention is increasingly paid to the nutritional quality and food intakes for a better life. In poor countries, it is foremost “eat to survive”.

Nearly 900 million peoples suffering from hunger in the world but 90% of them live in developing countries. India (231 MH) is at the head, followed by sub-Saharan Africa (212 MH), Asia - Pacific (189 MH) and China (123 MH). The rest of the world has barely 100 MH malnourished peoples. However, the Pacific area of Asia provided the world in many domesticated plant species (Citrus, numerous fruits and vegetables).

Tools to describe biodiversity of plant species for food diversification have made many advances in recent years. New technologies allow deep and detailed analysis of the biodiversity and quality of the food supply. Several different and complementary disciplines such as genetics, microbiology, biochemistry and physiology are involved. Beyond the simple description step, it is to improve products or value-added varieties and also to maintain traditional pools of genetic diversity for tomorrow. We must also appeal to disciplines such as plant breeding or the wide range of plant biotechnologies to generate new diversity aspects and to preserve existing genetic resources. This requires of course a broad collaboration of local people, the best able to defend their specificities.

In this context, 2010 Conference of “**Scientific Journeys of the BIOVEG network**” was organized around five main sessions:

1. Genetic resources, local domestication, plant breeding, cytogenetics.
2. Plants - micro-organisms interaction which include phytopathology, symbiotic relationship, toxins impacts.
3. Final biochemical composition, antioxidants analysis, lipid contents and composition, metabolic pathways regulations.
4. Non-conventional diversity creation methods such as induced mutations.
5. *Ex situ* and *in situ* genetic resources conservation.

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Cluj CCF (French Cultural Center in Cluj-Napoca, Romania)

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2010 Volume 38 Issue 2 (Special Issue)**

This **Special Issue** contains a part of papers presented at 12th International BIOVEG Symposium “Plant Biodiversity and Food Diversification”, University of Agricultural Sciences and Veterinary Medicine, September 27-29, 2010, Cluj-Napoca, Romania.

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Contents

Plant Epigenetics: From Genomes to Epigenomes

Alain RIVAL, Thierry BEULÉ, Frédérique ABERLENC BERTOSI, James TREGEAR, Estelle JALIGOT 9

SUDBIOTECH: A Training Initiative in Plant Biotechnology Dedicated to Scientific Communities in Developing and Emerging Countries

Alain RIVAL, Kifouli ADEOTI, Ambaliou SANNI, Aimé NATO, Yves HENRY 16

Genetic Variation and Geographical Diversity for Seed Storage Proteins of Seventeen Durum Wheat Populations Collected in Algeria

Wahiba HAMDI, Ines BELLIL, Gérard BRANLARD, Douadi KHELIFI 22

Varietal Response of Cowpea (*Vigna unguiculata* (L.) Walp.) to *Striga gesnerioides* (Willd.) Vatke Race SG5 Infestation

Jean-Baptiste NOUBISSIE TCHIAGAM, Joseph Martin BELL, Sirina GUISSAI BIRWE, Sodea GONNE, Emmanuel YOUMBI 33

Preliminary Studies on Microsatellite Marker Analysis of Resistance to Common Bunt in several Wheat Genotypes (*Triticum aestivum* L.)

Laura Cristina COTA, Doru PAMFIL, Constantin BOTEZ, Mircea GRIGORAS 42

Diversity of Seven Glutenin and Secalin Loci within Triticale Cultivars Grown in France

Ines BELLIL, Annaig BOUGUENNEC, Douadi KHELIFI 48

Possibility of Use of Romanian Bell Pepper (*Capsicum annuum* L. var *grossum*) Local Landraces in Breeding Process

Emilian MADOSA, Lavinia SASU, Sorin CIULCA, Giancarla VELICEVICI, Elena Adriana CIULCA, Constantin AVADANEI 56

Evaluation of the Genetic Diversity of several *Corylus avellana* Accessions from the Romanian National Hazelnut Collection

Iulia Francesca POP, Doru PAMFIL, Paul Andrei RAICA, Ioana Virginia PETRICELE, Mihai BOTU, Adina Cristina VICOL, Monica HARTA, Cristian Radu SISEA 61

Peroxisomal β -oxidation and Production of γ -decalactone by the Yeast *Rhodotorula aurantiaca*

Mohamed ALCHIHAB, Robin DUBOIS-DAUPHIN, Mario AGUEDO, Jacqueline DESTAIN, Philippe THONART 68

Development of Water Melon (*Citrullus vulgaris* L.) Red Wine

Roger DJOULDE DARMAN, Jean-Justin ESSIA NGANG, François-Xavier ETOA 73

Effect of GammaRay in the Progeny of Trispecific Hybrid [(*Gossypium hirsutum* x *G. raimondii*)² x *G. sturtianum*]

Fatimata Bintou Hessedine DIOUF, Halima BENBOUZA, N'Guessan Olivier KONAN, Djibril SARR, Khadidiatou Ndoeye NDIR, Jean-Pierre BAUDOIN, Guy MERGEAL 78

The Development of a Biochemical Profile of Acacia Honey by Identifying Biochemical Determinants of its Quality	
Liviu Alexandru MARGHITAS, Daniel Severus DEZMIREAN, Cristina Bianca POCOL, Marioara ILEA, Otilia BOBIS, Iosif GERGEN.....	84
Free and Esterified Sterol Distribution in Four Romanian Vegetable Oil	
Francisc Vasile DULF, Mihaela-Ligia UNGURESAN, Dan Cristian VODNAR, Carmen SOCACIU.....	91
Modification of the Soluble Protein Content of Heat-Processed Soybean Flour	
Adrian CAPRITA, Rodica CAPRITA.....	98
Competence versus Recalcitrance for <i>in Vitro</i> Regeneration	
Sergio J. OCHATT, Rana M. ATIE, Estela M. PATAT-OCHATT, Louis JACAS, Catherine CONREUX.....	102
HPLC Characterization of Lactic Acid Formation and FTIR Fingerprint of Probiotic Bacteria during Fermentation Processes	
Dan Cristian VODNAR, Adriana PAUCEAN, Francisc Vasile DULF, Carmen SOCACIU.....	109
Several Lipophilic Components of Five Elite Genotypes of Romanian Seabuckthorn (<i>Hippophae rhamnoides subs. carpatica</i>)	
Adrian VESCAN, Doru PAMFIL, Constantin BELE, Cristian MATEA, Cristian Radu SISEA.....	114
<i>Ex Situ</i> and <i>In Situ</i> Conservation of Agricultural Biodiversity: Major Advances and Research Needs	
Mohammad Ehsan DULLOO, Danny HUNTER, Teresa BORELLI.....	123
Conservation Genetics of Baobab (<i>Adansonia digitata</i> L.) in the Parklands Agroforestry Systems of Benin (West Africa)	
Achille Ephrem ASSOGBADJO, Romain GLELE KAKAI, Tina KYNDT, Brice SINSIN.....	136
<i>In Vitro</i> Preservation of Yam (<i>Dioscorea cayenensis</i> – <i>D. rotundata</i> complex) for a Better Use of Genetic Resources	
Paul ONDO OVONO, Claire KEVERS, Jacques DOMMES.....	141
The Bioaccumulation of Some Heavy Metals in the Fruiting Body of Wild Growing Mushrooms	
Carmen Cristina ELEKES, Gabriela BUSUIOC, Gheorghe IONITA.....	147