



FIRST INTERNATIONAL CONGRESS OF DANUBE REGION BOTANICAL GARDENS - *Transdisciplinarity in Plant Science*

September 7-9, 2017

Arad-Macea, Romania

PROGRAM - PLENARY SPEAKERS



Prof. dr. Anca SÂRBU

*University of Bucharest, Faculty of Biology, Bucharest, ROMANIA &
Association of Botanical Gardens in ROMANIA*

Association of Botanical Gardens in Romania – a Step towards European Integration



Dr. David Bröderbauer

Core Facility Botanical Garden, University of Vienna, AUSTRIA

The Botanical Garden of the University of Vienna – examples for conservation activities

Bröderbauer David¹, Schumacher Frank¹, Kodym Andrea^{1,2} & Kiehn Michael¹

¹ *Core Facility Botanical Garden, University of Vienna, AUSTRIA*

² *Department of Pharmacognosy, University of Vienna, AUSTRIA*



Prof. dr. Jiucun Wang

Fudan University, Shanghai, P.R. CHINA

Molecular mechanism of traditional Chinese medicine in treatment of fibrosis



Prof. Cosmin Sicora, PhD

*“Alexandru Borza” Botanical Garden, Babeş-Bolyai University, Cluj-Napoca &
Biological Research Center Jibou, ROMANIA*

ALEXANDRU BORZA - Distinguished Romanian Scientist and Pioneer in Plant Biological Sciences



Prof. Aurel Ardelean, PhD

“Vasile Goldiș” Western University of Arad, ROMANIA

Carl Linné (Carolus Linnaeus) – A Genius of Botany

Ardelean Aurel¹, Bartók Katalin², Ardelean Dorina¹

¹*“Vasile Goldiș” Western University of Arad, ROMANIA*

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PROGRAM – ORAL PRESENTATIONS

Friday, September 8th, 2017

Biodiversity Conservation: Species and Habitats

B10, „Vasile Goldiș” University Campus, 86 L.Rebreanu Str.

Chairs: David Bröderbauer, Anca Sârbu, Silvia Oroian, Gicu Gabriel Arsene

13.30-14.00 O.1. Bastian KAISER – Keynote speaker

Use or protect? Discussions on the appropriate protection strategy using the example of the “Black-Forest-National Park”

14.00-14.30 O.2. Aurel ARDELEAN– Keynote speaker

Preservation of the Biodiversity of the Protected Areas in Arad County

14.30-14.50 O.3. Silvia OROIAN

Plants Species of Community Interest Identified in the Flora of the Transylvanian Plain (Mureș County)

14.50-15.10 O.4. Paulina ANASTASIU

Alien Plant Species of Union Concern in Romania – The Role of Botanic Gardens in their Control and Mitigation

15.10-15.30 O.5. Gicu Gabriel ARSENE

The habitat 40A0 (Subcontinental peri-Pannonic scrub) within the Site of Community Importance Nera Gorges – Beușnița (ROSCI0031): plant diversity, conservation status and conservation measures

15.30-15.50 O.6. Erzsébet DOMOKOS

Phytosociological Study Concerning Habitats with *Fritillaria meleagris* on the Course of the Nirajul Mare River (Mureș County, Romania)

15.50-16.10 O.7. Mihaela SĂMĂRGHIȚAN

Endemic Species Identified in the Flora of the Transylvanian Plain (Mureș County)

16.10-16.30 O.8. Aurel ARDELEAN

L. Simonkai – Botanist of Arad Shire, Founder of the First Herbarium of the Zărand Region (1864)

Phytochemistry and Phytomedicine

B11, „Vasile Goldiș” University Campus, 86 L. Rebreanu Str.

Chairs: Jiucun Wang, Hermenean Anca

13.30-14.00 **0.9. Carmen SOCACIU– Keynote speaker**

Plant metabolomics versus phytochemistry. What makes the difference?

14.00-14.30 **0.10. Yasuyo Hijikata– Keynote speaker**

Alternative Therapy for Patients with Diabetes Mellitus type II

14.30-14.50 **0.11. Carmen POPESCU**

Portulaca oleracea L.– Source of Organic Silicon in Body Care Cosmetics

14.50-15.10 **0.12. Snezana CUPARA**

Phytoaccumulation in Plants of Mountain Goc in Serbia

15.10-15.30 **0.13. Anca HERMENEAN**

Plant-derived biomolecules and drug delivery systems in the treatment of liver diseases

15.30-15.50 **0.14. Alciona SASU**

Beneficial effects of silybum marianum on epirubicin induced mucositis in mice

15.50-16.10 **0.15. Andrei LOBIUC**

Morphological and Biochemical Parameters of Chemically Elicited Rye Sprouts

16.10-16.30 **0.16. Marian BURDUCEA**

Influence of LEDs on Antioxidant Activity, Total Phenolic Content and Assimilatory Pigments of in vitro *Lycium barbarum* Plant

Hortulan Laboratories: Gardens and Experimentation in Early Modern Science

C25, „Vasile Goldiș” University Campus, 86 L.Rebreanu Str.

Chairs: Fabrizio Baldassarri, Oana Matei

13.30-14.15 **0.17. Florike EGMOND– Keynote speaker**

Exotic Plants and Private Botanical Gardens as Collections in the 16th Century

14.15-15.00 **0.18. Peter MASON– Keynote speaker**

How Some Exotic Plants and Their Images Entered European Botanical Gardens and Science

15.00-15.30 **0.19. Doina-Cristina RUSU**

Experimenting with Plants at the Intersection of Natural Philosophy, Natural Magic, and Horticulture

15.30-16.00 **0.20. Ana DUARTE RODRIGUES**

Eighteenth-Century Portuguese Botanic Gardens: Networks and Practices

16.00-16.30 **0.21. Fabrizio BALDASSARRI**

In the Garden of Descartes: Botanical Experimentation, Mathematical Sciences, and Landscape Design

Saturday, September 9th, 2017

Biodiversity Conservation: Species and Habitats

B10, „Vasile Goldiș” University Campus, 86 L.Rebreanu Str.

Chairs: Sorin Borlea, Aurel Ardelean

9.00-9.20 0.22. Lia MLADIN

In situ and ex situ Conservation of Gypsophilous Plant Community from South-Eastern Part of Sălaj County, Romania

9.20-9.40 0.23. Ioan DON

Considerations on the Dendrological Rarities Cultivated in Arad County

9.40-10.00 0.24. Constantin-Marian PETRESCU

Ecosystem Services at Igrîș-Șeitin and Felnac sites (Mureș Floodplain Natural Park) as Perceived by Members of Local Communities

10.00-10.20 0.25. Ovidiu PÎRV

Mureș Valley Natural Park – A Nature 2000 Site

10.20-10.40 0.26. Alina-Sorina BIRO

The Ornamental Sector of the “Alexandru Borza” Botanic Garden – Invitation to Flowers’ Paradise

Structural and Functional Diversity of Algae, Fungi and Plants

B10, „Vasile Goldiș” University Campus, 86 L. Rebreanu Str.

Chairs: Constantin Toma, Cătălin Tănase

10.40-11.10 0.27. Constantin TOMA – Keynote Speaker

Survey of Anatomical Adaptations in Halophytes from Different Climates

11.10-11.30 0.28. Alina MITROI

Collection of Plants with Edible Flowers

Plant Tissue Culture

B10, „Vasile Goldiș” University Campus, 86 L. Rebreanu Str.

Chairs: Paulina Anastasiu, Aurel Ardelean

11.30-11.50 0.29. Mirela ARDELEAN

Artificial LED Lighting Enhances Growth Characteristics and Total Phenolic Content of in vitro Seedlings of *Ocimum basilicum* l. cultivar „Aromat de Buzău”

11.50-12.10 0.30. Corina CĂȚANĂ

In vitro Germplasm Collection of Crop Landraces

12.10-12.30 0.31. Liliana JARDA

Ex situ Conservation of *Lychnisnivalis*, Rare and Endemic Species of Romania

Phytochemistry and Phytomedicine

B11, „Vasile Goldiș” University Campus, 86 L.Rebreanu Str.

Chairs: Snezana Cupara, Neli-Kinga Olah

9.00-9.20 0.32. Simona VICĂȘ

Green Biosynthesis of Selenium Nanoparticles using Parsley (*Petroselinum crispum*) Leaves Extract

9.20-9.40 **O.33. Marian BURDUCEA**
Variation in Content of Polyphenols and Antioxidant Activity of Two Purple Basil Cultivars Grown under Chemical and Organic Fertilization

9.40-10.00 **O.34. Elida ROSENHECH**
Phenolic and Pigment Contents and Antioxidant Activity in *Viola odorata L.* and *Viola suavis Bieb.*

10.00-10.20 **O.35. Miruna-Silvia STAN**
Study Regarding the Antioxidant and Cytoprotective Properties Exhibited by Mother Tinctures Obtained from Several Medicinal Plants

10.20-10.40 **O.36. Claudia-Crina TOMA**
Comparative phytochemical profile of the buds of *Syringa spp* extracted by two different methods

10.40-11.00 **O.37. Nicoleta ZURBĂU-ANGHEL**
The Effects of Chrysin on Cardiotoxicity Induced by Mitoxantrone

11.00-11.20 **O.38. Teresa CASACCHIA**
Effect of Different Cooking Methods on Bioactive Components of Alimurgic Dietary Plant to Anti-obesity and Anti- hyperglycemic Activity

11.20-11.40 **O.39. Neli Kinga OLAH**
Meristemotherapy – A New Challenge for Research

11.40-12.00 **O.40. Ciprian Valentin MIHALI**
Scanning Electron Microscopy a Method Used in Morphology Diversity Characterization with Importance in Plant Conservation

Hortulan Laboratories: Gardens and Experimentation in Early Modern Science

C25, „Vasile Goldiș” University Campus, 86 L. Rebreanu Str.

Chairs: Fabrizio Baldassarri, Oana Matei

9.00-9.30 **O.41. Oana MATEI**
John Evelyn's Matter Theory

9.30-10.00 **O.42. Alexandru MEXI**
Battling Nature. The Role of Gardens and the Horizon in the Metaphorical Process of Taming the Environment

10.00-10.30 **O.43. Lucie ČERMÁKOVÁ**
Where Have all the Flowers Grown? The Relationship Between a Plant and its Environment in the 16th Century

10.30-11.00 **O.44. Alette FLEISCHER**
Plants and Power: Mediating between Science and Symbol.

11.00-11.30 **O.45. Silviu CORPODEANU**
Studies on Ivy on the historical monuments and the importance of the preservation processes based on living plant walls

11.30-12.00 **O.46. Horia TRUȚĂ**
Decorative Gardens and Parks in Arad Surroundings

PROGRAM -POSTER PRESENTATIONS

Saturday, September 9th, 2017

Institute of Life Sciences (ILS), VGUWU Campus

Biodiversity Conservation: Species and Habitats

P.1. Aurel ARDELEAN

The Botanic Scientific Research in Romania. The Historical Evolution of Phylogenetic Botany

P.2. Constantin MARDARI

Land Use Effect on *Arnica montana* Populations in the Northern Region of Romanian Eastern Carpathians

P.3. Alma-Lioara NICOLIN

Potential of Rusca Crest Cormophyte Flora for Medicinal Use

P.4. Alina Georgeta NEACȘU

Notes About the Presence of *Lindernia procumbens* (Krocker) Philcox in the Romanian Banat

P.5. Constantin Marian PETRESCU

Ecosystem Services at Munar – Sâmpetru German (Mureș Floodplain Natural Park) as Perceived by Members of Local Communities

Structural and Functional Diversity of Algae, Fungi and Plants

P.6. Srečko PETROVIC

Comparative Analysis of the Accumulation of Metals in Species *Daucus carota* and *Petroselinum crispum* and their Wild Relatives

P.7. Constantin TOMA

Survey of Anatomical Adaptations in Halophytes from Different Climates

P.8. Adriana HEGEDŰS

Desmodemus tropicus in Danube Delta: Morphological And Phylogenetic Approaches

P.9. Maria Cristina BUCȘĂ

Variations in Photosynthetic and Transpiration Rates in Five Spontaneous *Rosa L.* Taxa from Suceava County, Romania

P.10. Tiberius BĂLĂEȘ

Optimizing the Laccase Production with Mycelium of *Trametes gibbosa* (Basidiomycota: Fungi) for Acetamiprid Biodegradation

P.11. Annamaria PALLAG

Comparative Morpho-Anatomical Study of two Species of the *Pulmonaria* Genus

Plant Tissue Culture

P.12. Mirela ARDELEAN

Artificial LED Lighting Enhances Growth Characteristics and Total Phenolic Content of *in vitro* Seedlings of *Ocimum basilicum L.* cultivar „Aromat de Buzău”

P.13. Paulina ŚWIDERSKA

The Influence of Thidiazuron on Horseradish Regeneration (*Armoracia rusticana Gaertn.*) from Root Explants

P.14. Marian BURDUCEA

Influence of LEDs on Antioxidant Activity, Total Phenolic Content and Assimilatory Pigments of in vitro *Lycium barbarum* Plant

P.15. Isabela STAN

The Effect of some Plant Growth Regulators and their Combination on Anthocyanin Formation in Callus of *Sedum telephium ssp. maximum L.*

P.16. Karolina NOWAKOWSKA

Problems in Micropropagation of Woody Plants

P.17. Anca Dana COSMA

The Effects of Antibiotics and Antifungals Added to Plant Culture Media

Phytochemistry and Phytomedicine

P.18. Elisabeta CHIȘE

Study of the Buds' Development at *Ribes nigrum L.*

P.19. Corneliu TĂNASE

Antibacterial Activity of Spruce Bark (*Picea abies L.*) Extract against *Escherichia coli*

P.20. Tatiana CALALB

Polyphenolic Content in Vegetable Products of the *Sp. Polygonum sachalinense* Fr. Schmidt

P.21. Adela Silvia IOANĂȘ

Methods of Analysis and Evaluation of the Effectiveness of Plant Extracts in Pharmaceutical Studies

P.22. Anca UNGURIANU

Antioxidant Assessment of Gerovital H3 Solution Compared to Natural Components

P.23. Adrian ȘERBAN

Composition and Antioxidant Activity of Lavandula Oil Extracted by a Novel Method

P.24. Marian BURDUCEA

Screening of Biosolids Dosage for Cultivation of two *Phaseolus coccineus* Cultivars on Eroded Soil in a Greenhouse Experiment

P.25. Marian BURDUCEA

Comparative Study of *Phaseolus vulgaris L.* Response to Differentiated Fertilization Conditions in a Field Experiment

P.26. Diana PĂTRAȘ

Bioactive molecules from *Chlorella sorokiniana* microalgae: extraction, spectral and chromatographic characterization

P.27. Sonia CĂRUNTU

Therapeutical Effects of Oil Based Plant Extracts on Different Skin Pathologies

Hortulan Laboratories: Gardens and Experimentation in Early Modern Science

P.28. Piotr KOZŁOWSKI

Orchards as a Raws Wood Material Factory