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GUVERNUL ROMANIEI



INSTRUMENTE STRUCTURALE
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-INVESTITII PENTRU VIITORUL DUMNEAVOASTRA-

The 52th Annual Scientific Conference
“A New Approach of the Academic Research in Biology”
related to the opening of novel research facilities of the
Institute of Biology Bucharest of the Romanian Academy
into frame of DIBIOCLIM project



Academia Română
Institutul de Biologie București
București, 11 – 12 decembrie 2012

Scientific Committee:

Acad. Octavian Popescu
Dr. Medana Zamfir
Dr. Nicolae Mirancea
Dr. Sorin Ștefanuț
Dr. Mădălin Enache

Organizing committee

Acad. Octavian Popescu
Dr. Mădălin Enache
Dr. Medana Zamfir
Dr. Nicolae Mirancea
Dr. Sorin Ștefanuț
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Tuesday, 11 December 2012

*Aula Magna of the Romanian Academy
(Calea Victoriei No. 125, Sector 1, Bucharest)*

09:00 – 10:00 – Participant registration

10:00 – 13:00 – Oppening of the conference and Ceremony of inauguration

- Words on behalf of:

Romanian Academy

ANCS

Biological Science Section of

Romanian Academy

- Acad. Octavian Popescu – director of the Institute of Biology Bucharest

- Dr. Mădălin Enache – on behalf of DIBIOCLIM project of the Institute of
Biology Bucharest

13:00 – 14:00 – Cocktail

17:30 – 21:00 - *Team build event* – location pending

Wednesday, 12 December 2012

Institute of Biology (Splaiul Independentei No., 296, sector 6, Bucharest)

Room 1.30 (1st floor) – lectures 1

09:00 – 11:00

Aharon Oren, *What's in a name? Thoughts about species concepts, taxonomy and nomenclature of prokaryotes*, Israel

Antonio Ventosa, *title pending*, Spain

Luc de Vuyst, *Unraveling of the cocoa bean fermentation process opens new perspectives for chocolate production*, Belgium

Gradimir Misevic, *title pending*, Switzerland

Octavian Popescu, *Species and speciation*, Romania, Institute of Biology Bucharest

11:00 – 11:30 – coffee break – and poster session

Room 1.30 (1st floor) – lectures 2

11:30 – 12:00 - Dimitrova D., T. Ivanova, Y. Bosseva, Ch. Gussev, S. Tsoneva, V. Georgiev and T. Stoeva, *Plant conservation toward society*, Head of Biodiversity and Local development working group, Bulgaria

12:00 – 12:30 - Marina Ivanova Stanilova, *Plant Biotechnology Development in the Institute of Biodiversity and Ecosystem Research, BAS – Facilities, Achievements, and Challenges*, Bulgaria, Institute of Biodiversity and Ecosystem Research

12:30 – 13:00 - Gajdošová A., G. Libiaková and M. Latečková, *Clonal propagation and genetic improvement of selected small fruit species through biotechnology approaches*, Slovakia

13:00 – 13:30 - Larisa Andronic, *Nucleotypic Effects in In Vitro Condition of Different Cabbage Genotypes Infected with Cauliflower Mosaic Virus*, Moldova

13:30 – 14:30 – lunch and poster session

Room 1.30 (1st floor)

16:20 – 16:30 - closing the conference and awards

Wednesday, 12 December 2012

*Institute of Biology
(Splaiul Independentei No., 296, sector 6, Bucharest)*

Room 1.30 (1st floor) – Microbiology Section

- 14:30 – 14:45 – E. Popa, Perera N., C.Z. Kibédi-Szabó, Guy-Evans H., Evans D.R. and C. Purcarea, *Missing-link carbamoylphosphate synthetase*, Romania, Institute of Biology Bucharest
- 14:45 – 15:00 - Gabriela Teodosiu and Madalin Enache, *Haloarchaea from some Romanian man-made and natural hypersaline environments*, Romania, Institute of Biology Bucharest
- 15:00 – 15:15 - Alexandra Hillebrand-Voiculescu, Corina Itcus, Ioan Ardelean, Rusu A., Persoiu A., Brad T., Elena Popa, Onac B. and Cristina Purcarea, *Microbialdiversity in ice sediments from Scarisoara Cave*, Romania, Institute of Speleology „Emil Racovita” Bucharest
- 15:15 – 15:30 - Ioan I. Ardelean¹ and Simona Ghiță², *Dynamics of microbiota in marine microcosms (indoor): results and perspectives*, Romania, ¹Institute of Biology Bucharest, Romanian Academy; ²„Ovidiu” University, Constanța
- 15:30 – 16:45 – I. Gomoiu¹, S. Vadrucci², I. Walther² and E. Chatzitheodoridis³, *The growth of *Ulocladium chartarum* in microgravity: on Random positioning machine and on board of International Space Station*, ¹Institute of Biology Bucharest, Romanian Academy; ²Space Biology Group, ETH Zürich, Switzerland; ³National Technical University of Athens, School of Mining and Metallurgical Engineering, Department of Geological Sciences, Athens, Greece
- 15:45 – 16:15 – Ș.-A. Andrei^{1,2}, A. Baricz¹, V. Muntean¹, C. Coman³, Z.G. Keresztes¹, M. Alexe⁴ and H. Banciu^{1,2}, *Diversity of archaeal community in the chemocline of a hypersaline lake in the Transylvanian Basin (Romania)*, ¹Department of Molecular Biology and Biotechnology, Faculty of Biology and Geology, Babeș-Bolyai University, Cluj-Napoca, Romania; ²Institute for Interdisciplinary Research in Bio-Nano-Sciences, Babeș-Bolyai University, Cluj-Napoca, Romania; ³National Institute of Research and Development for Biological Sciences (NIRDBS), Institute of Biological Research, Cluj-Napoca, Romania; ⁴Faculty of Geography, Babeș-Bolyai University, Cluj-Napoca, Romania

Room X.XX – Citobiology Section

- 14:30 – 14:45 - Marius Costel Alupei^{1,2}, Emilia Licarete², Flavia Bianca Cristian¹ and Manuela Banciu^{1,2}, *Statins as candidates for tumor-targeted nanomedicines*, ¹Department of Molecular Biology and Biotechnology, Faculty of Biology and Geology, “Babes-Bolyai” University”, Cluj-Napoca, Romania, ²Molecular Biology Centre, Institute for Interdisciplinary Research in Bio-Nano-Sciences, “Babes-Bolyai” University, Cluj-Napoca, Romania
- 14:45 – 15:00 – Ivanova T., Y. Bosseva, Ch. Gussev, S. Tsoneva, V. Georgiev, G. Angelov, D.

Dimitrova and T. Stoeva, *Ex situ approach to conservation of Liliaceae in Bulgaria*, Bulgaria

- 15:00 – 15:15 – Irina Holobiuc, Anca Aiftimie-Păunescu, Cristi Banciu, Rodica Catana, Raluca Mihai, Monica Mitoi, Carmen Voichita, Florentina Aldea, Diana Cristian, Florența Helepciuc, Iulia Istrate and Gina Cogălniceanu, *Plant in vitro systems for ex situ conservation and biotechnological applications*, Romania, Institute of Biology Bucharest
- 15:15 – 15:30 – Nicolae Mirancea, *Telocytes - Infrastructure and functional role*, Romania, Institute of Biology Bucharest

Room 3.26 (3rd floor) – Ecology Section

- 14:30 – 14:45 - Piet Spaak¹, Cristina Sandu², *Investigating the impact of cyanobacterial blooms on aquatic ecosystems*, ¹Switzerland, Swiss Federal Institute of Aquatic Science and Technology (Eawag), ²Romania, Institute of Biology Bucharest
- 14:45 – 15:00 – Jerca J., E. Preda, A. Vădineanu, *Contributions to the knowledge of litter decomposition rates of plant litters of Acer pseudoplatanus, Fraxinus excelsior and Quercus robur in forest ecosystems under the influence of anthropogenic pressure*
- 15:00 – 15:15 – Onete M., D.C. Nicolae, M. Manu, V. Honciuc and D. Purice, *Biodiversity data transferred in ecosystem services studies*, Romania, Institute of Biology Bucharest
- 15:15 – 15:30 – Mogîldea D., *Preliminary assessment the effect of urbanization on ectomycorrhizal diversity*, Romania, Institute of Biology Bucharest
- 15:30 – 15:45 – Mihăilescu S., *CITES and Nature Conservation in Republic of Kenya*, Romania, Institute of Biology Bucharest
- 15:45 – 16:00 – Mihăilescu S., M. Ion, I. Gheorghe and I. Cristea, *Project SOP Environment: Conservation status monitoring of species and habitats from Romania under the 17 Article of the Habitats Directive – 2011-2012*, Romania, Institute of Biology Bucharest
- 16:00 – 16:15 – Nicolae D.C., *TURBOVEG database in Bucegi Massif studies*, Romania, Institute of Biology Bucharest

POSTERS

ECOLOGY

1. **Parpală L.**, Long-term ecological research of zooplankton community in Lake Roșu (Danube Delta)
2. **Florescu L.**, Spatial distribution of the rotifers diversity in Sfântu Gheorghe branch
3. **Radu E., A. Coman and G. Rîșnoveanu**, Linking the structure of the weed-bed fauna communities and the environmental variables in Sfântu Gheorghe arm of the River Danube
4. **Bîrsan C.C., G. Rîșnoveanu, E. Radu, G. Ignat and S. Cristofor**, Long-term dynamics (1993-2011) of the benthic macroinvertebrates communities in the Inner Danube Delta

5. **Moldoveanu M.**, The dynamics of cyanobacterial blooms in Lake Rosu reflected in long-term studies
6. **Păceșilă I.**, The dynamics of extracellular β - glucosidase and alkaline phosphatase in aquatic ecosystems from the Danube Delta in 2011-2012 interval
7. **Cioboiu O. and G. Brezeanu**, Structural-functional particularities of the ecosystems of a plain catchment area (case study)
8. **Manu M.**, Modern methods used in taxonomy and ecology of soil fauna
9. **Honciuc V.**, Methods used in the ecological research of soil fauna –History and Perspective–
10. **Fiera C., S. Maican and D. Purice**, The communities structure of invertebrates fauna from rape and alfalfa crops
11. **Purice D.**, The epigeic invertebrates in the ecological studies in Romania. Methods – old, current and perspectives
12. **Purice D. and O. Cioboiu**, The ecological succession in terms of the trophic structures in forest plantations
13. **Maican S. and C. Fiera**, Specific diversity of entomofauna (Collembola, Coleoptera) from Sărata - Monteoru forest (Buzău county)
14. **Axini M. and Fawaz Al-Azki**, Biogeographical data on mollusks species in Dobrogea, Romania
15. **Cristea I.**, Grayling (*Thymallus thymallus* L, 1758), management and ecology
16. **Cobzaru I., G. Chișamera and V. Pocora**, Bird Ringing Camp from Letea, Danube Delta Biosphere - important site for the study of birds migration
17. **Ștefănuț S.**, Threatened bryophytes in Romania
18. **Ion R.**, First record of *Draba doreri* Heuff. (Brassicaceae) in Parâng Mountains (Romanian Carpathians)
19. **Onete M.**, Biodiversity of the future in Millenium Seed Bank
20. **Georgiev V. and S. Tsoneva**, Non-native Vascular Aquatic Macrophytes in Bulgaria
21. **Tsoneva S. and V. Georgiev**, Conservationally Important Vascular Aquatic Macrophytes in Bulgaria
22. **Mihăilescu S., Ion M. and I. Cobzaru**, Natura 2000 Sites in the Lower Olt Hydrographic Basin - key species and habitats for the integrated management of the area
23. **Ionescu O., Adamescu M., Cazacu C., Ionescu G., Cotovelea A., Fedorca M., Jurj R., Popa M. and A. Gridan**, The estimation of community interest mammals in Romania

MICROBIOLOGY

24. **Cismasiu C.M.**, The selection of the acidophilic bacteria belonging to the *Acidiphilium* genus with higher enzymatic activity in the presence of heavy metal ions
25. **Grosu-Tudor S.S., M. Zamfir, D. Wouters and L. De Vuyst**, Lactic acid bacteria from fermented vegetables with potential applications in food industry and health
26. **Ștefănescu M. and D.M. Cîrstea**, Studies concerning the morphological and functional variations of some bacterial cells under contamination stress impact
27. **Stancu M.M.**, Organic solvent resistance mechanisms in *Vibrio alginolyticus* IBB_{C12}
28. **Cojoc R., S. Neagu, G. Teodosiu and M. Enache**, Halophilic bacteria from different hypersaline habitats in Slanic Prahova, Romania and their biotechnological potential
29. **Ardelean I.I., M. Cîrnu, D. Pascu, I. Sarchizian, V. Damian, I. Apostol, I. Iordache and D. Apostol**, Metalic nanoparticles citotoxicity against phototrophic and heterotrophic bacteria

30. **Popa E., N. Perera, H. Guy-Evans, D.R. Evans and C. Purcarea**, Structure-function investigation of *Methanobrevibacter smithii* full-length carbamoyl phosphate synthetase
31. **Ițcuș C., A.M. Hillebrand-Voiculescu, D. Pascu, A. Perșoiu, T. Brad and C. Purcărea**, Cell growth and DGGE analysis of microorganisms from Scărișoara Cave ice sediments

CYTOBIOLOGY

32. **Prunescu P. and C.C. Prunescu**, Fibrolamellar liver carcinoma like tumor in an experimentally iron loaded mouse
33. **Holobiuc I., C. Voichiță, M. Carasan and F.E. Helepciuc**, Long-term cultures in minimal growth conditions in *Dianthus trifasciculatus* Kit ssp. *parviflorus* as *ex situ* preservation tool
34. **Cogălniceanu G., M.E. Mitoi and G. Hristea**, Green synthesis of silver nanoparticles using plant cell cultures;
35. **Helepciuc F.E., M. Ciucă, M.E. Mitoi, A. Brezeanu and C.P. Cornea**, Defense-related enzymes gene expression in *Cucumis sativus* L. plantlets induced by microorganisms
36. **Andronic L., S. Smerea and T. Grigorov**, Direct Somatic Embryogenesis as Possible Way of Virus Elimination from Seedless Grapevine;
37. **Mihai R., F.E. Helepciuc and M.E. Mitoi**, Antioxidant activity of polyphenols from *Vitis vinifera* cvs. Isabelle *long-term* callus culture under the influence of some elicitors treatment
38. **Aiftimie-Păunescu A.**, An efficient method for somatic embryogenesis induction and plant regeneration for *Serratula bulgarica* Achtaroff et Stoj. *ex situ* germplasm conservation
39. **Banciu C. and F.E. Helepciuc**, Genetic stability assessment of *Scilla autumnalis* regenerants
40. **Aldea F., F.E. Helepciuc, C. Banciu, L. Domzalska, S. Spaniel, M.E. Mitoi, A. Brezeanu and L.C. Soare**, Comparative studies between ferns gametophyte and sporophyte by bidimensional electrophoresis and polyploidy analysis
41. **Voicu D. and A. Brezeanu**, Electronmicroscopical analysis of the *Usnea barbata* (L.) Mott. (*Lichenophyta*) symbiotrophic formations regenerated in “in vitro” culture

“Dezvoltarea infrastructurii Institutului de Biologie Bucuresti pentru întărirea capacității de investigare a biodiversității, în contextul schimbărilor climatice globale (DIBIOCLIM)”

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Conținutul acestui material nu reprezintă în mod obligatoriu poziția oficială a Uniunii Europene sau a Guvernului României