



The 5th International Scientific Conference

Applied Natural Sciences 2015

Perspectives in V4 Countries

POSTER SECTION

Wednesday, September 30, 18:30 – 19:30

Poster section: Applied Biology and Biotechnology

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- Adamkovičová, M., Krajčovičová, V., Lukáčová, M., Galbavý, D., Omelka, R.
- 1 **ApaI polymorphism in the vitamin D receptor gene and the risk of osteoporosis in Slovak postmenopausal women**
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- Chmelová, D., Ondrejovič, M.
- 2 **The enzymatic decolorization of triphenylmethane dyes by the laccase from *Trametes versicolor***
-
- Chorvat, D., Marcek Chorvatova, A.
- 3 **Lasers and their applications in natural sciences**
-
- Farkašovská, J., Tišáková, L., Godány, A.
- 4 **The N-terminal catalytic domain of Lytμ1/6 an endolysin encoded by *Streptomyces aureofaciens* phage μ1/6**
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- Gajdošová, A., Ružič, D., Hunková, J., Libiaková, G.
- 5 **The effect of growth regulators and different iron sources on shoot proliferation of *Amelanchier alnifolia* var. *Cusickii* in vitro**
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- Hadariová, L., Vesteg, M., Mrvová, M., Krajčovič, J.
- 6 **Plastid genome degradation of the flagellate *Euglena gracilis* and *Euglena longa* induced by chemical agents with different mechanism of action**
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- Hudcovicova, M., Korbelová, E., Klčová, L., Mihálik, D., Kraic, J.
- 7 **Detection of Slovak tomato breeding lines resistant to ToMV by DNA markers**
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- Hricová, A., Goffa, E., Holič, R., Záhorský, M.
- 8 **The fatty acids and squalene status in seeds of valuable amaranth breeding lines**
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- Hunková, J., Vronková, J., Libiaková, G., Gajdošová, A.
- 9 **Comparison of shoot multiplication ability of selected *Rubus* species and hybrid under in vitro conditions**
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- Jamrichová, D., Godány, A., Urbániková, L.
- 10 **Bioinformatic analysis of carbohydrate esterase family CE 16**
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11	Klčová, L., Ondreičková, K., Mihálik, D., Gubišová, M., Hudcovicová, M., Klemptová, T., Čertík, M., Gubiš, J., Kraic, J. Transgenic wheat with altered fatty acids content
12	Libiaková, G., Vujovič, T., Hunková, J., Gajdošová, A. The effect of different iron sources and concentrations on <i>Rubus fruticosus</i> L. shoot proliferation <i>in vitro</i>
13	Luptakova, A., Kotulicova, I., Macingova, E., Jencarova, J. Biological removal of sulphates from acid mine drainage
14	Luptakova, A., Estokova, A., Prascakova, M., Kovalcikova, M. Study of the cement composites biodeterioration
15	Maliar, T., Krošlák, R., Maliarová, M., Kraic, J., Havrlentová, M., Hozlár, P., Rückschloss, L., Kraic, J. Determination of selected secondary metabolites content and biological activities <i>in vitro</i> in extract samples prepared from native grain and green plants of wheat, barley, oat and buckwheat
16	Martinovičová, M., Janeček, Š. <i>In silico</i> analysis of branching enzymes in the alpha-amylase family GH57
17	Masárová, V., Kraic, J. <i>In silico</i> analysis of microsatellites in genome of opium poppy (<i>Papaver somniferum</i> L.)
18	Nagyová, K., Mackuľák, T., Birošová, L. Characterization of antibiotic resistant <i>Escherichia coli</i> in biofilm from sewerage
19	Némethy, M., Rošteková, V., Steifetten, Ø., Kraic, J., Janiga, M., Mihálik, D. Dispersion potentiation of <i>Ips typographus</i> detected by microsatellite markers
20	Olmedilla, A., Farias, G.A., Gallegos, M.T. Using microscopy to follow <i>Pseudomonas syringae</i> tomato infection
21	Ondrejovič, M., Chmelová, D. The effect of arabinoxylan isolation on their yield and quality
22	Péntek, A., Schmidt, R., Szakál, P., Fazekas, C. Zn-fertilization in oilseed rape
23	Rousar, T., Vrbova, M., Rousarova, E., Capek, J., Cesla, P. Evaluation of the use of HK-2 cells for nephrotoxicity testing <i>in vitro</i>
24	Súkeníková, D., Kormuľák, A. Specific aspects of seed quality in putative hybrid swarms of scots pine and mountain dwarf pine
25	Szakál, T., Barkóczy, M., Szakál, P., Schmidt, R. Agricultural use of composts prepared from trace element enriched sewage sludge of municipal waste water
26	Šťastný, M., Gasper, J., Bauer, M. Genetic distances among five European honeybee breeds using microsatellite markers

27	Štochmařová, A., Kádasi, A., Vlčková, R., Sopková, D., Nitray, J., Nitrayová, S., Sirotkin, A.V. Direct influence of rooibos on rabbit ovarian functions
28	Ubaladini, S., Luptakova, A., Prascakova, M., Macingova, E., Jencarova, J. Possibilities of bio-hydrometallurgical treatment of spent alkaline batteries
29	Úrgeová, E., Maliarová, M., Fehérová, N., Pšenáková, I. Hop as an interesting source of antioxidant and inhibitory active compounds
30	Vejsadová, H., Matiska, P., Obert, B., Urgeová, E., Preťová, A. Histological analysis of somatic embryogenic process in <i>Flox paniculata</i> L.
31	Vidová, B., Peterková, D., Oravkinová, M., Šramková, Z., Tišáková, L., Godány, A. Streptomycetal phage endolysis domains
32	Viskupičová, J., Žitková, P., Račková, L., Horáková, Ľ. Effect of flavonoids and their derivatives on pancreatic beta-cells
33	Vujović, T., Ružić, Đ., Cerović, R. Cryopreservation in vitro of autochthonous <i>Prunus</i> sp. by droplet vitrification
34	Vulganová, K., Úrgeová, E., Preťová, A. Antimicrobial effects of essential oils in plant <i>Salvia officinalis</i> on selected species of microorganisms
35	Zamecnikova, B., Vodickova, H., Phuong, L., Lachman, J. Methods of water status measurement in plants

Poster section: Pedagogy, Humanities and Foreign Languages in Natural and Technical Sciences

36	Bubeníková, M., Křepinská, A. Language Programmes at the Faculty of Mathematics and Physics, Charles University Prague: Results of a Questionnaire Survey
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Thursday, October 1, 18:00 – 19:00

Poster section: Applied Chemistry and Chemistry

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- 1 Adamec, S., Matoušek, J.
Photocatalytic degradation of methyl parathion: monitoring mechanism and kinetics of decomposition of the pesticide in the aqueous suspension of the catalyst of TiO₂
-
- 2 Brachňáková, B., Šalitroš, I.
Magnetism of Schiff base iron(III) complexes
-
- 3 Csanádi, Z., Szabó Nagy, A., Szabó, J.
The evaluation of selected heavy metal concentrations associated to airborne PM10 in an urban site of Győr, Hungary
-
- 4 Česla, P., Vaňková, N., Vaňová, J., Nováková, Z., Fischer, J.
Towards complex characterization of glycomic samples using combination of hilic with cze in microfluidic system
-
- 5 Dlháň, Ľ., Augustín, P., Krüger, C., Renz, F., Boča, R.
Spin crossover in Fe(III) Schiff-base complexes
-
- 6 Eprikashvili, L., Zautashvili, M., Kordzakhia, T., Pirtskhalava, N., Dzaganian, M., Rubashvili, I.
Application of composites of brown coal and natural zeolites as biological fertilizers in plant growing
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- 7 Frišták, V., Soja, G.
The potential of biochar for closing the geochemical phosphorus cycle
-
- 8 Gajdzińska, A., Pomastowski, P., Buszewski, B.
Silver immobilized cells of lactic acid bacteria as next-generation probiotic
-
- 9 Kollár, J., Frečer, V.
How precise are hybrid QM/MM methods for description of drug-receptor interactions?
-
- 10 Kruzlicova, D., Nemecek, P., Pipiska, M.
Biosorption of Co²⁺, Cd²⁺ and Zn²⁺ ions in single and binary mixtures: prediction by artificial neural networks
-
- 11 Maga, I.
Use azocoupling reaction to determine the 2,6-dichloroaniline by HPLC
-
- 12 Makohusová, M., Mrázová, V., Bednářová, A., Milatová, E., Bátorová, A.
Comparison of two different techniques of warfarin dosing determination
-
- 13 Miklovič, J., Pisca, E., Segľa, P., Moncol, J.
Synthesis, crystal structure and spectral properties of copper(II) 2-chloro-nicotinate complexes with N-heterocyclic ligands
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- 14 Nádaská, G., Lesný, J.
Determination of E-values as a contribution to soil manganese bioavailability assessment
-
- 15 Nemecek, P., Lehotay, J., Cizmarik, J.
QSAR and QSRR study of phenylcarbamic acid derivatives
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	Packová, A., Boča, R.
16	Mononuclear Co(II) single molecule magnet showing manifold relaxation processes
	Pipíška, M., Trajtel'ová, Z., Machalová, L., Horník, M.
17	Comparison of bioaccumulation and biosorption of Co²⁺ and Mn²⁺ ions by bacteria: a radiometric study
	Pospěchová, J., Brynych, V., Videnská, K., Štengl, V., Henych, J.
18	Sorption of Sr(II) on TiO₂ under dynamic conditions
	Railean-Plugaru, V., Pomastowski, P., Rafińska, K., Buszewski, B.
19	Application of the gel electrophoresis technique in separation of biosilvernanoparticles (BIOAgNPs)
	Rajnák, C., Boča, R.
20	Mononuclear pentacoordinate cobalt (II) complexes as single molecule magnets
	Rimarčík, J., Senajová, E., Klein, E.
21	Total phenolic H atom abstraction in simple polyphenolic models: computational study
	Silva, M.G.D.V., Monteiro, J.A., Carrasco, M., Moreira, R., Santos, D., Guedes, R.
22	<i>In silico</i> investigation of anthraquinones from Senna species
	Szabó Nagy, A., Szabó, J., Csanádi, Z.
23	Polycyclic aromatic hydrocarbons in surface water and sediments of the Danube river and its tributaries, Hungary
	Šťastný, M.
24	Reactive sorbent based on composite of manganese oxide/graphene oxide and its utilization for the rapid degradation of organophosphates
	Šušnovská, A., Bachratá, M., Partelová, D., Horník, M., Pipíška, M.
25	Chemometric characterization of synthetic dyes sorption onto Slovakian river sediments: a laboratory batch experiments
	Valica, M., Orosová, L., Šarközy, M., Hostin, S.
26	Development of a spectrophotometric unit, controlled by microcomputer Arduino, for monitoring of water pollution
	Valigura, D., Vargová, A.
27	Interactions of iron ions with amino acids
	Varga, F., Titiš, J., Boča, R.
28	Synthesis, structural and magnetic properties of cobalt(II) complexes: investigation of potential single molecule magnets
	Végh, D., Šmejkalová, V., Šoral M.
29	Synthesis of fluorinated benzo[1,2-<i>b</i>;4,5-<i>b'</i>] dithiophene derivatives as potential biologically active compounds and novel opto-electronic materials
	Vranovičová, B., Boča, R.
30	New magnetostructural correlations in binuclear iron(III) complexes
	Zemanová, I., Gašparová, R., Kraic, F., Boháč, A., Maliar, T., Maliarová, M.
32	Synthesis of furo[3,2-<i>b</i>]pyrrole derivatives fused with heterocyclic rings

Poster section: Applied Informatics

33	Beňo, M., Ölvecký, M. The possibilities of technical realization of real remote experiments
34	Hostovecký, M., Čička, F. Development and programming of serious game for students to improve of specific skills
35	Siládi, V., Horváthová, D., Kortišová, V., Jeziórsky, J. Brain computer interface and software applications for disable persons
36	Vagáč, M., Melicherčík, M., Schon, J. Classification of tire images in order to obtain the best possible tire tread sample
