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WITH INTERNATIONAL PARTICIPATION

HOTEL "HISSAR", HYSARYA - BULGARIA
1-3 APRIL 2011

PHARMACIA

Dear colleagues, For more convenient search of materials, the sections in the present issue are presented with unigue codes, as follows:

PL	**Plenary session**
PL-1,2,3...	oral presentation
CH	**Chemical Sciences**
CH-1,2,3...	*oral presentation*
CH-P1,2,3...	*poster session*
ChDD	**Chemometrics and Drug Desing**
ChDD-1,2,3...	*oral presentation*
ChDD-P1,2,3...	*poster session*
PhTSc	**Pharmaceutical Technology Sciences**
PhTSc-1,2,3...	*oral presentation*
PhTSc-P1,2,3...	*poster session*
PhP	**Pharmacognosy and Phitochemistry**
PhP-1,2,3...	*oral presentation*
PhP-P1,2,3...	*poster session*
PHS	**Pharmacology and Toxicology Sciences**
PHS-1,2,3...	*oral presentation*
PHS-P1,2,3...	*poster session*
PPS	**Practical Pharmaceutical Sciences**
PPS-1,2,3...	*oral presentation*
PPS-P1,2,3...	*poster session*

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PhP-P4. METAL ACCUMULATION AND ANTIOXIDATIVE STATUS IN SELECTED MEDICINAL PLANTS

Darinka Gjorgieva[1], *Tatjana Kadifkova-Panovska*[2], *Tatjana Ruskovska*[1], *Katerina Bačeva*[3], *Trajče Stafilov*[3]

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Introduction: Plants are used in different ways, among those in medicine. Monitoring of metals in the plants is of great importance for protecting the public from the hazard of possible toxic effects and also for information about the nutrition value of the plants. Various compounds with differential antioxidant properties are found in floral resources which are considered to have high potential in context of therapeutic approaches to encounter and prevent free radical damage as that caused by metal toxicity. ***Aim:*** Determine the amounts of certain essential and toxic metals (Cd, Cu, Pb, Ni, Zn, Fe, Cr) and total antioxidants level in selected medicinal plants in context of therapeutic approaches. ***Material and methods:*** Contents of some toxic and essential metals were determined in tree medicinal plants [Urtica dioica L. (Urticaceae), Taraxacum officinale (Asteraceae) and Matricaria recutita (Asteraceae)], in different plant parts (leaves, stems, radix or flowers), collected from areas with different degrees of metal pollution with atomic emission spectrometry with inductively coupled plasma (ICP-AES). The ferric reducing/antioxidant power (FRAP) assay was used to measure the total antioxidants in freshly prepared infusions (0,5 g dry herbs with 50mL boiled water for 10 minutes) of above mentioned plants. Total antioxidants were expressed as mmol/L $FeSO_4$. ***Results***: All metals were found to be at high levels in samples collected from an industrial area with high degree of metal pollution compared with significantly lower results in all samples collected from unpolluted area. Similar to metals, a significant change in the total antioxidants level was recorded in two investigated groups of plants, where plants exposed to metals shows significantly lower antioxidant level. ***Conclusion***: The results suggest that antioxidative defence mechanisms play a significant role in metal detoxification in plants. The analysis of heavy metal concentration in plants is necessary in the case of plants use for phytotherapeutical purposes.

PhP-P5. SCREEI OF SOME OXYTRO

Ekaterina Ko

[1]Faculty of Pharmacy, Depart

[2]S

There are three memb Pirin Mts. Their evolutio est. Oxytropis urumovii Pirin Mts. It is a glacial r category is "Vulnerable" lova is also a local en tetraploid. Its IUCN cate tropis species, which o their close relative with r polyploid. Previous com and molecular technique answered some questio elucidation of the proble such chemotaxonomica research for the main g our initial screening stuc in all three Oxytropis ca O. urumovii and O. kozh O-β-D–(3[II]-methoxy)-gluc

PhP-P6. BIOTECHN BY LEUCOJUM A BU

Ivan Ivanov[1], *Va*

[1]The Stephan Angeloff Institute biotechnologies, 139 Ruski

From time immemorial sources of bioactive subs of modern society (mainl ing. Therefore developin lites is of particular impor tissue and organs are cul