

L'Union Médicale Balkanique Balkan Medical Union



Balkanska Medicinska Unija



32nd
Balkan
Medical
Week

32^{ème}
Sémaine
Medicale
Balkanique



21-23. September 2012. University of Nis Nis, Serbia



32nd BALKAN MEDICAL WEEK - Nis, SERBIA 32eme SEMAINE MEDICALE BALKANIQUE - Nis, SERBIA

OFFICERS OF THE BALKAN MEDICAL UNION

International Secretary General: professor Vasile Cândea, Romania

Albania: Prof. Ylli Ppa, President, Tirana Prof. Mentor Petrela, Secretary General, Tirana

Bulgaria: Prof. Venko Alexandrov, President, Sofia Prof. Fanny Ribarova, Secretary General, Sofia

Cyprus: Dr Vassos Lyssarides, President, Nicosie Dr Kaya Bekiroglu, Vice-president, TRNC

Greece: Prof. Niki Agnantis, former president, Ioannina Prof. Ioannis Karaitianos, President, Athens Dr Anastasios Thanos, Secretary General, Athens

Republic of Moldova: Prof. Gheorghe Ciobanu, President, Chisinau Prof. Minodora Mazur, Secretary General, Chisinau

Romania: Prof. Nicolae Angelescu, President, Bucarest Prof. Vasile Burlui, Vice-president, Iasi Prof. Ioan Lascăr, Vice-president, Bucarest Prof. Mircea Grigorescu, Vice-president, Cluj Dr Ioan Ieţcu, Vice-president, Suceava Adriana Milea, Executive Director

Serbia: Prof. Vladmila Bojanić, President, Niš Prof. Snažana Jančić, Secretary General, Kragujevac

Turkey: Prof. Somer Ones, former president, Istanbul Prof. Sabri Ergüney, President, Istanbul Prof. Ali Haydar Taspinar, Vice-president, Istanbul Prof. Ertugrul Gazioglu, Treasurer, Istanbul

ORGANISING COMMITTEE:

President: Prof. Bojanić V,

Prof. Đinđić B

Doc. Bojanić Z

Prof. Šmelcerović A

Prof. Savić T

Prof. Najman S

Prof. Sokolović D

Prof. Milojković M

Doc. Lazović M

Adriana Milea

SCIENTIFIC COMMITTEE

CHAIRMAN OF THE SCIENTIFIC COMMITTEE - PREDSEDNIK NAUČNOG ODBORA MEMBERS OF THE SCIENTIFIC COMMITTEE - ČLANOVI NAUČNOG ODBORA

Prof. dr Vasil Candea

Prof.dr Yves Juillet

Prof. Emmeritus Niki Agnantis

Prof. Emmeritus George Chaldakov

Prof.dr Milorad Mitković

Prof. dr Vladislav Stefanović

Prof. dr Dušica Pavlović

Prof. Fanny Ribarova

Prof.dr Marina Deljanin Ilić

Prof.dr Snežana Jančić

Prof.dr Slobodan Janković

Prof.dr Stevo Najman

Prof.dr Dragan Đurić

Prof.dr Vladmila Bojanić

Prof.dr Vlada Janković

Doc.dr Zoran Bojanić

Prof.dr Dusica Stojanovic

Prof.dr Stojan Radić

Prof.dr Sonja Radenković

inclusion. The subchronic administration of *C. coggygria* infusion is non-toxic in the applied contrations and therefore it can be used for further investigation of possible protective effects in inal models of different pathological conditions.

words: biochemistry, European smoke tree, pathoanatomy, phytopharmacology

P80 Antigenotoxic and antioxidant properties of the methanol extract obtained from the underground parts of Gentiana cruciata

partment of Biology and Ecology, Faculty of Science, University of Kragujevac, Serbia partment of Chemistry, Faculty of Science, University of Kragujevac, Serbia

roduction. Gentiana cruciata L. (Gentianaceae), commonly called 'cross gentian', is used in the fitional medicine for loss of appetite, as a stomachic, as well as component in preparations showing efficial effects in gall and liver diseases.

of this study was to evaluate antigenotoxic and antioxidant properties of the methanol extract ined from the underground parts of *G. cruciata* from Serbia.

hods. The methanol extract were investigated for antigenotoxic activity against ethyl hanesulfonate (EMS) using the *in vivo* sex-linked recessive lethal test on *Drosophila melanogaster*. In antioxidant capacity, as well as free radical scavenging potential by applying the 2,2-diphenyl-liphydrazyl (DPPH) assay, were determined. Quantity of total phenolic compounds were determined acid equivalent using Folin-Ciocalteu's reagent, while the spectrophotometric method with minium chloride was used for the determination of total flavonoids as the rutin equivalent.

lts. Although EMS in concentration of 0.75 ppm (parts per million) increased the mutation mency in all stages of spermatogenesis, post-treatments with extract in concentration of 5% tically reduced the frequency of sex-linked recessive lethal mutations induced by EMS. Contents that phenolics and total flavonoids were found to be 17.72 and 1.20 mg/g dry weight of extract, ectively. Total antioxidant capacity was 194.78 mg ascorbic acid/g dry extract, while antiradical tity of the extract (IC_{50} =2.60 mg/ml) were comparable to the activities of referent antioxidant pounds, such as gallic acid.

clusion. Phenolics and flavonoids were reported to have the capacity to scavenge mutagens or free cals, therefore, they may be responsible for the beneficial effect exhibited by this plant.

words: antigenotoxicity; antioxidant; methanol extract, Gentiana cruciata L

nowledgments: This study was financially supported by the Serbian Ministry of Education and acceptable of Serbia, Grants No. III43004 and III41010.

Hepatoprotective activity of methanolic extract of root of Gentiana asclepiadea L. in carbon tetrachloride induced hepatic damage in rats

ailović V¹, Katanić J¹, Mihailović M², Šipovac K¹, Stanković V³, Solujić S¹, Mladenović M¹, Stantović N¹, Matić S⁴

partment of Chemistry, Faculty of Science, University of Kragujevac, Serbia titute for Biological Research "Siniša Stanković", University of Belgrade, Serbia titute of Pathology, Faculty of Medicine, University of Kragujevac, Serbia partment of Biology and Ecology, Faculty of Science, University of Kragujevac, Serbia

oduction. This study using *in vivo* model investigates hepatoprotective activity of the methanol of *Gentiana asclepiadea* L. roots (GAR) against carbon tetrachloride-induced liver injury in *G. asclepiadea* (Gentianacea) is traditionally used as a medicine for hepatitis infections and the ian local name of this plant is a "grass of jaundice". Herb and roots of this plant are also used in the tional medicine as a bitter tonic and gastric stimulant.

The aim was to examine. hepatoprotective activity of methanolic extract of root of *Gentiana as-adea* L. in carbon tetrachloride induced hepatic damage in rats.