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Risk Assessment of Toxic and Essential Trace Metals on the Thyroid Health at the Tissue Level: The Significance of Lead and Selenium for Colloid Goiter Disease

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The role of potassium channels and calcium in the relaxation mechanism of magnesium sulfate on the isolated rat uterus

Sokolović, Dragana; Drakul, Dragana; Oreščanin Dušić, Zorana; Tatalović, Nikola; Pecelj, Milica; Milovanović, Slobodan; Blagojević, Duško (Archives of Biological Sciences, 2019)

Appendix A. dithiolequinolinethiones as new potential multitargeted antibacterial and antifungal agents: Synthesis, biological evaluation and molecular docking studies

Kartsev, Vicor; Shikhaliiev, Khidmet S.; Geronikaki, Athina; Medvedeva, Svetlana M.; Ledenyova, Irina V.; Krysin, Mikhail Yu; Petrou, Anthi; Ćirić, Ana; Glamočlija, Jasmina; Soković, Marina (European Journal of Medicinal Chemistry, 2019)

Evaluation of the river snail *Viviparus acerosus* as a potential bioindicator species of metal pollution in freshwater ecosystems

Despotović, Svetlana; Prokić, Marko; Gavrić, Jelena; Gavrilović, Branka; Radovanović, Tijana; Borković-Mitić, Slavica; Pavlović, Slađan; Saičić, Zorica (Archives of Biological Sciences, 2019)

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Evaluation of the river snail *Viviparus acerosus* as a potential bioindicator species of metal pollution in freshwater ecosystems

2019

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Gavrić, Jelena
Gavrilović, Branka
Radovanović, Tijana
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Abstract:

Metal pollution of the aquatic environment is of global concern because metals are ubiquitous and can be accumulated in natural habitats as well as in organisms through the food chain. Accumulated metals are capable of inducing toxicity in living organisms, altering their reproductive success, behavior, immune response and biochemical processes. We examined the correlation between the concentrations of 9 metals (As, Cd, Cr, Cu, Fe, Mn, Ni, Pb and Zn) in the whole body of the river snail *Viviparus acerosus*, river water and sediment from three Serbian rivers with different levels of metal pollution, the Danube, Tisa and Velika Morava. Data about water quality showed that the concentrations of As, Cr, Fe and Ni were highest in the water of the Danube and of Cu, Mn and Zn in the water of the Velika Morava River. The concentrations of As and Mn were highest in the Danube River sediment, of Cd, Cu, Fe, Pb and Zn in the Tisa and of Cr and Ni in the sediment of the Velika Morava. The concentrations of all of the examined metals, except for Cu, were highest in snails from the Velika Morava. Correspondence analysis showed stronger correlations between metal concentrations in snails and the river sediment than between snails and river water. Several correlations between metal concentrations in snails and river sediment and water were established by Pearson's correlation test. The concentrations of metals in snail bodies were affected to a greater extent by the river sediment than by the river-water metal content. We conclude that *V. acerosus* has great potential as a bioindicator species of metal pollution in freshwater basins.

Keywords:

Danube; Tisa; Velika Morava; *Viviparus acerosus*; Metals

Source:

Archives of Biological Sciences, 2019, 71, 1, 39-47

Projects:

- Molecular and physiological biomonitoring of aerobic organisms based on the determination of biochemical biomarkers of oxidative stress (RS-173041)

DOI: 10.2298/ABS180801045D

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dc.description.abstract Metal pollution of the aquatic environment is of global concern because metals are ubiquitous and can be accumulated in natural habitats as well as in organisms through the food chain. Accumulated metals are capable of inducing toxicity in living organisms, altering their reproductive success, behavior, immune response and biochemical processes. We examined the correlation between the concentrations of 9 metals (As, Cd, Cr, Cu, Fe, Mn, Ni, Pb and Zn) in the whole body of the river snail *Viviparus acerosus*, river water and sediment from three Serbian rivers with different levels of metal pollution, the Danube, Tisa and Velika Morava. Data about water quality showed that the concentrations of As, Cr, Fe and Ni were highest in the water of the Danube and of Cu, Mn and Zn in the water of the Velika Morava River. The concentrations of As and Mn were highest in the Danube River sediment, of Cd, Cu, Fe, Pb and Zn in the Tisa and of Cr and Ni in the sediment of the Velika Morava. The concentrations of all of the examined metals, except for Cu, were highest in snails from the Velika Morava. Correspondence analysis showed stronger correlations between metal concentrations in snails and the river sediment than between snails and river water. Several correlations between metal concentrations in snails and river sediment and water were established by Pearson's correlation test. The concentrations of metals in snail bodies were affected to a greater extent by the river sediment than by the river-water metal content. We conclude that *V. acerosus* has great potential as a bioindicator species of metal pollution in freshwater basins.

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dc.citation.apa	Despotović, S., Prokić, M., Gavić, J., Gavrilović, B., Radovanović, T., Borković-Mitić, S., et al. (2019). Evaluation of the river snail <i>Viviparus acerosus</i> as a potential bioindicator species of metal pollution in freshwater ecosystems. <i>Archives of Biological Sciences</i> , 71(1), 39–47.	
dc.citation.vancouver	Despotović S, Prokić M, Gavić J, Gavrilović B, Radovanović T, Borković-Mitić S, Pavlović S, Saičić Z. Evaluation of the river snail <i>Viviparus acerosus</i> as a potential bioindicator species of metal pollution in freshwater ecosystems. <i>Arch Biol Sci</i> . 2019;71(1):39–47.	
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Otvoreni pristup

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The hop-derived prenylflavonoid isoxanthohumol inhibits the formation of lung metastasis in B16-F10 murine melanoma model.

2019

Authors:

Krajnović, Tamara
Drača, Dijana
Kaluderović, Goran
Dunđerović, Duško
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Abstract:

Isoxanthohumol (IXN), a prenylflavonoid from hops and beer, gained increasing attention as a potential chemopreventive agent. In the present study, IXN antimetastatic potential in vitro against the highly invasive melanoma cell line B16-F10 and in vivo in a murine metastatic model was investigated. Melanoma cell viability was diminished in a dose-dependent manner following the treatment with IXN. This decrease was a consequence of autophagy and caspase-dependent apoptosis. Additionally, the dividing potential of highly proliferative melanoma cells was dramatically affected by this isoflavonone, which was in correlation with an abrogated cell colony forming potential, indicating changes in their metastatic features. Concordantly, IXN promoted strong suppression of the processes that define metastasis- cell adhesion, invasion, and migration. Further investigation at the molecular level revealed that the abolished metastatic potential of a melanoma subclone was due to disrupted integrin signaling. Importantly, these results were reaffirmed in vivo where IXN inhibited the development of lung metastatic foci in tumor-challenged animals. The results of the present study may highlight the beneficial effects of IXN on melanoma as the most aggressive type of skin cancer and will hopefully shed a light on the possible use of this prenylflavonoid in the treatment of metastatic malignancies.

Keywords:

Hops flavonoids; Invasion inhibition; Isoxanthohumol; Melanoma; Metastasis; Murine metastatic model

Source:

Food and Chemical Toxicology, 2019, 129, 257-268

Projects:

- Molecular mechanisms of physiological and pharmacological control of inflammation and cancer (RS-173013)
- Leibniz Institute of Plant Biochemistry, Halle
- Hopsteiner (Simon H. Steiner Hopfen GmbH)

DOI: 10.1016/j.fct.2019.04.046

PubMed: 31034931

Scopus: 2-s2.0-85065122843

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dc.citation.apa	Krajnović, T., Drača, D., Kaluđerović, G. N., Dunđerović, D., Mirkov, I., Wessjohann, L. A., ... Mijatović, S. (2019). The hop-derived prenylflavonoid isoxanthohumol inhibits the formation of lung metastasis in B16-F10 murine melanoma model. <i>Food and Chemical Toxicology</i> , 129, 257–268.
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Appendix A. dithiolequinolinethiones as new potential multitargeted antibacterial and antifungal agents:

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doi:10.2298/JGI1602 221D
 issn:0350-7599 (Print)
 issn:1821-2808 (Online)

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- приказ
- радни документ
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- анотација
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Drugi korak

Osnovni podaci o dokumentu

Сажетак(ци):

Dodavanje

- Ecological and evolutionary factors, together with abiotic conditions, affect biogeographic patterns of genetic entities. The spatial and temporal variability of chromosomal inversions of *Drosophila subobscura* suggests that this species can serve as a good model for studying the effects of environmental change on the genetic structure of natural populations. A comprehensive meta-analysis of the association of environmental and climatic variables with inversion diversity patterns was performed on 20 *D. subobscura* populations from the central part of the Balkan Peninsula. Environmental data consisted of 3 sets of variables related to temperature and precipitation, extracted from 2 climatic databases, averaged over a 3 month period, and using biological instead of calendar dates of sampling. Arrangement frequency patterns are likely driven by a synergistic effect of factors related to temperature and precipitation. The frequencies of standard chromosomal arrangements tend to co-vary positively with precipitation, whereas parameters related to temperature appear to favor higher frequencies of the inverted and more complex chromosomal arrangements. A complex relationship among local environmental variables is evident from the results and reflects the probable effect of an altitudinal shift; the altitudinal gradient of inversions is different from their latitudinal gradient. The pattern of inversions is generally not associated with environmental variables, and a particular inversion cannot be a predictive genetic marker of global climate change. Populations in different habitats are subjected to habitat-specific selection regimes, while demographic factors and population history also affect the genetic variability pattern observed.

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Osnovni podaci o dokumentu

Остала ауторства:

Prezime, npr. Petrović

Ime, npr. Petar M.

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Издавач(и):

Mesto : Naziv izdavača

Dodavanje

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Аутор(и): Mandić, Marina

Наслов(и): RAĐANJE ŽIVIH MRTVACA: KARAKTERISTIKE ŽANRA ZOMBI FILMA I ROMEROVA VIZIJA APOKALIPSE

Извор: Antropologija

Датум публикавања: 2018

Колација (волумен, број, странице): почетна страница / број чланка:173

Колација (волумен, број, странице): завршна страница:190

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Колација (волумен, број, странице): број:18

Идентификатор(и): ISSN:1452-7243

Пројекат(и) који су финансирани истраживање: 177026: Kulturno nasleđe i identitet

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Сажетак(ци): Nastao 1968. godine filmom „Noć živih mrtvaca“, američkog režisera Džordža A. Romera, zombi žanr predstavlja sintezu žanrova apokalipse, naučne fantastike, horora i filmova o čudovištima. Inspirisan prethodnim filmskim tradicijama, Romero kombinovanjem elemenata pomenutih žanrova nudi sopstvenu viziju kraja sveta oličenu u postojanju čudovišta koje je istovremeno povod katastrofe i posledica koja karakteriše društveno okruženje. Romerovi filmovi predstavljaju metaforičko ogledalo društvenih okolnosti u kojima su nastali, te njihov razvoj možemo posmatrati kao dnevnik u koji su decenijama upisivana značenja određenih vremenskih epoha, društvenih dešavanja, kako od strane autora, tako i od strane publike koja uživa u ovim filmovima i tumači ih skladno sopstvenim iskustvima. Svojim specifičnim jezikom, zombi apokalipsa dekonstruiše ustanovljene društvene diskurse i konstruiše ih ponovo u narativnoj formi koja za cilj ima da izazove uznemirenost, strah i apokaliptičnu fantaziju zasnovanu na propasti zapadnog društvenog diskursa

Сажетак(ци): Starting from the theoretical explications of the genre film and Cawelti's concept of formula, this paper relates to the genre conceptualization and contextualization of the popular zombie film narrative. Pioneered by George Romero in 1968, and his film "Night of the Living Dead", zombie film genre represented by previous film traditions, Romero combined it with a new setting. Romero's films can be viewed as a particular survivalist fantasy which can be seen as a decades old diary in which the audience, which views these films, deconstructs the social discourse and creates a particular survivalist fantasy with the contemporary society.

Кључне речи: zombi, Romero, apokalipsa

Кључне речи: zombie, genre, Romero, apokalipsa

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Издавач(и): Univerzitet u Beogradu – Filozofski fakultet

Издавач(и): Institut za etnologiju i antropologiju

Степен доступности: Отворени приступ

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Altered cytokine expression in Helicobacter pylori ...	Import	Čeka na urednika

Nedovršeni zapis

Unos dokumenta

Carboranyl Analogues of Ketoprofen with Cytostatic Activity against Human Melanoma and Colon Cancer Cell Lines

Autori:

Buzharevski, Antonio
Paskaš, Svetlana 
Laube, Markus
Lönnecke, Peter
Neumann, Wilma
Murganić, Blagoje
Mijatović, Sanja 
Maksimović-Ivanić, Danijela 
Pietzsch, Jens
Hey-Hawkins, Evamarie

Izvor:

ACS Omega

DOI: 10.1021/acsomega.9b00412

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RAZLIČITE VERZIJE RADOVA I
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Sleep disorder and altered locomotor activity as biomarkers of the Parkinson's disease cholinopathy in rat

2018

Authors:

[Ćirić, Jelena](#) 
[Lazić, Katarina](#) 
[Kapor, Slobodan](#) 
[Perović, Milka](#) 
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Abstract:

In order to find out the possible earliest biomarkers of Parkinson's disease (PD) cholinopathy, we followed the impact of bilateral pedunculopontine tegmental nucleus (PPT) lesion in rat on: the cortical and hippocampal sleep/wake states architectures, all sleep states related EEG microstructures, sleep spindles, the basal and stimulated locomotor activity. Sleep and basal locomotor activity in adult Wistar rats were followed during their inactive circadian phase, and throughout the same aging period. The bilateral PPT lesions were done by 0.1M ibotenic acid (IBO) during the surgical procedure for implantation of the electroencephalographic (EEG) and electromyographic (EMG) electrodes for chronic sleep recording. The cholinergic neuronal loss was identified by NADPH - diaphorase histochemistry. After all sleep and behavioral recording sessions, the locomotor activity was stimulated by d-amphetamine (d-AMPH) and the neuronal activity of striatum was followed by c-Fos immunolabeling. Impaired cholinergic innervation from the PPT was expressed earlier as sleep disorder then as movement disorder, and it was the earliest and long-lasting at hippocampal and thalamo-cortical level, and followed by a delayed "hypokinesia". This severe impact of a tonically impaired PPT cholinergic innervation was evidenced as the cholinergic interneuronal loss of the caudate putamen and as a suppressed c-Fos expression after stimulation by d-AMPH. In order how they occurred, the hippocampal non rapid eye movement (NREM) sleep disorder, altered high voltage sleep spindle (HVS) dynamics during rapid eye movement (REM) sleep in the hippocampus and motor cortex, and "hypokinesia" may serve as the biomarkers of PD cholinopathy onset and progression.

Keywords:

High voltage sleep spindles; Locomotor activity; Parkinson's disease; Pedunculopontine tegmental nucleus; Sleep; c-Fos

Source:

Behavioural Brain Research, 2018, 339, 79-92

Projects:

- Neurobiology of sleep in aging and disease - electroencephalographic markers and modeling in the estimation of disorder (RS-173022)

DOI: 10.1016/j.bbr.2017.11.021

PubMed: 29170000

Scopus: 2-s2.0-85034764500

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<http://linkinghub.elsevier.com/retrieve/pii/S0166432817312391><http://www.ncbi.nlm.nih.gov/pubmed/29170000><http://ibiss-r.rcub.bg.ac.rs/123456789/2932>

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Sleep disorder and altered locomotor activity as biomarkers of the Parkinson's disease cholinopathy in rat

2017

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[Ćirić, Jelena](#) 
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Članak u časopisu (Recenzirana verzija)



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Metapodaci

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Apstrakt:

In order to find out the possible earliest biomarkers of Parkinson's disease (PD) cholinopathy, we followed the impact of bilateral pedunculopontine tegmental nucleus (PPT) lesion in rat on: the cortical and hippocampal sleep/wake states architectures, all sleep states related EEG microstructures, sleep spindles, the basal and stimulated locomotor activity. Sleep and basal locomotor activity in adult Wistar rats were followed during their inactive circadian phase, and throughout the same aging period. The bilateral PPT lesions were done by 0.1M ibotenic acid (IBO) during the surgical procedure for implantation of the electroencephalographic (EEG) and electromyographic (EMG) electrodes for chronic sleep recording. The cholinergic neuronal loss was identified by NADPH - diaphorase histochemistry. After all sleep and behavioral recording sessions, the locomotor activity was stimulated by d-amphetamine (d-AMPH) and the neuronal activity of striatum was followed by c-Fos immunolabeling. Impaired cholinergic innervation from the PPT was expressed earlier as sleep disorder then as movement disorder, and it was the earliest and long-lasting at hippocampal and thalamo-cortical level, and followed by a delayed "hypokinesia". This severe impact of a tonically impaired PPT cholinergic innervation was evidenced as the cholinergic interneuronal loss of the caudate putamen and as a suppressed c-Fos expression after stimulation by d-AMPH. In order how they occurred, the hippocampal non rapid eye movement (NREM) sleep disorder, altered high voltage sleep spindle (HVS) dynamics during rapid eye movement (REM) sleep in the hippocampus and motor cortex, and "hypokinesia" may serve as the biomarkers of PD cholinopathy onset and progression.

Napomena:

This is the peer reviewed version of the following article: Ćirić J, Lazić K, Kapor S, Perović M, Petrović J, Pešić V, Kanazir S, Šaponjić J. Sleep disorder and altered locomotor activity as biomarkers of the Parkinson's disease cholinopathy in rat. Behav Brain Res. 2018;339:79-92. <http://dx.doi.org/10.1016/j.bbr.2017.11.021>.

Ključne reči:

High voltage sleep spindles; Locomotor activity; Parkinson's disease; Pedunculopontine tegmental nucleus; Sleep; c-Fos

Izvor:

Behavioural Brain Research, 2017, 79-92

Projekti:

- Neurobiologija spavanja u starenju i bolesti - elektroencefalografski markeri i modeliranje u proceni poremećaja (RS-173022)

DOI: 10.1016/j.bbr.2017.11.021

PubMed: 29170000

Scopus: 2-s2.0-85034764500

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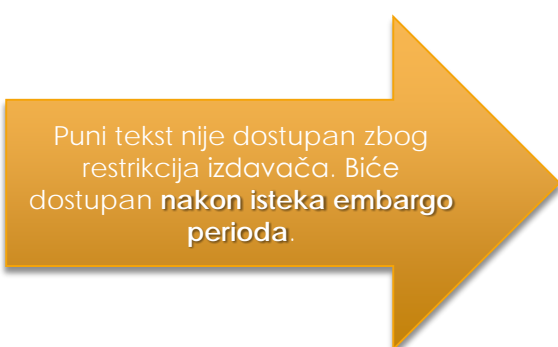


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Do different diets affect oxidative stress biomarkers and metal bioaccumulation in two snake species?

2019

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In this study we examined possible differences in heavy metal accumulation and oxidative stress parameters in the liver and muscle of two semi-aquatic snakes: grass snake (*Natrix natrix*) and dice snake (*N. tessellata*), that inhabit the same environment but differ in prey diversity. The obtained results revealed some interspecies, inter-tissue, prey-snake and prey-prey differences in heavy metal concentrations. Grass snakes prey contained significantly higher concentrations of Al, Cr and Fe as compared to food of dice snakes. Both investigated snakes accumulated generally lower concentrations of metals than their prey, indicating that they are not at risk of contaminant biomagnification. A significant interspecies difference in accumulation was observed only for Cu and Mn concentrations. On the other hand, analysis of oxidative stress biomarkers showed clear differences between the investigated snake species and the two investigated tissues. The liver of grass snake had increased superoxide dismutase, glutathione reductase and glutathione-S-transferase activities in comparison to dice snake. In muscle, a reverse trend was observed for the activities of these three enzymes, as well as for glutathione peroxidase activity. The higher number of significant correlations observed between oxidative stress biomarkers and heavy metal concentrations in grass snake points to upregulation of the antioxidative system (AOS), which resulted in a lower TBARS concentration. Results show that while the investigated snake species did not differ significantly in the accumulated metals, their defense mechanisms were different. This reveals the complexity of the AOS and points to the cooperation of different AOS components in individuals from natural populations.

Keywords:

Natrix natrix; *N. tessellata*; Heavy metals; Bioaccumulation; Oxidative stress biomarkers

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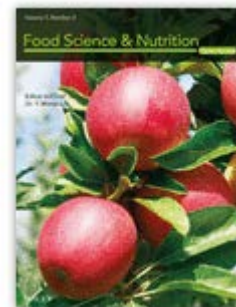
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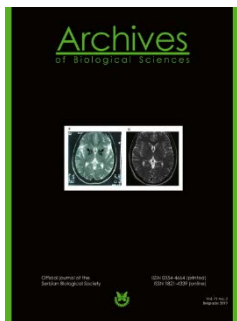
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Oznaka IBISS ugovora sa MPNTR:

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- ▶ Ministarstvo prosvete, nauke i tehnološkog razvoja Republike Srbije, Ugovor br. 451-03-68/2020-14/200007 (Univerzitet u Beogradu, Institut za biološka istraživanja 'Siniša Stanković')

info:eu-repo/grantAgreement/MESTD-2020/inst/200007/RS//

Oznake svih projekata (FP7, Horizon2020, projekti MPNTR 2006-2010. i 2011-2019):

[view-source:http://nardus.mpn.gov.rs/Files/projectData.xml](http://nardus.mpn.gov.rs/Files/projectData.xml)

- ▶ **OI173003** *Genetička i fenetička raznovrsnost u prirodnim populacijama u različitim sredinama – doprinos polimorfizma B hromozoma*
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173003/RS//
- ▶ **OI173007** *Evolucija u laboratoriji i adaptacije u prirodi*
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173007/RS//
- ▶ **OI173009** *Odgovor neuroendokrinog sistema pacova na odabrane biljne ekstrakte, fitoestrogene, steroidne i peptidne hormone*
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173009/RS//
- ▶ **OI173011** *Procena ekofiziološkog i genetičkog diverziteta biljaka u šumskim ekosistemima*
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173011/RS//
- ▶ **OI173013** *Molekularni mehanizmi fiziološke i farmakološke kontrole inflamacije i kancera*
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173013/RS//

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- ▶ **OI173014** *Molekularni mehanizmi redoks signalinga u homeostazi, adaptaciji i patologiji*
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173014/RS//
- ▶ **OI173015** *Biotehnologija in vitro – gajene, lekovite i ugrožene biljne vrste*
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- ▶ **OI173018** *Ekofiziološke adaptivne strategije biljaka u uslovima multipnog stresa*
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173018/RS//
- ▶ **OI173020** *Signalni molekuli u dijabetesu: identifikacija potencijalnih bioloških markera uključenih u modifikaciju i integraciju signalnih puteva u cilju predikcije i intervencije u dijabetesu*
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173020/RS//
- ▶ **OI173022** *Neurobiologija spavanja u starenju i bolest - elektroencefalografski markeri i modeliranje u proceni poremećaja*
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173022/RS//

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- ▶ **OI173024** *Fiziološka, hemijska i molekularna analiza diverziteta odabranih retkih i ugroženih biljnih vrsta i upotreba biotehnologije u cilju ex situ zaštite i produkcije biološki aktivnih jedinjenja*
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- ▶ **OI173027** *Uticaj magnetnih polja i drugih sredinskih stresora na fiziološke odgovore i ponašanje različitih vrsta*
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- ▶ **OI173041** *Molekularno fiziološki biomonitoring aerobnih organizama zasnovan na određivanju biohemijskih biomarkera oksidacionog stresa*
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173041/RS//
- ▶ **OI173043** *Diverzitet vodozemaca i gmizavaca Balkana: evolucioni aspekti i konzervacija*
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173043/RS//
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- ▶ **OI173055** *Belo ili/i mrko: značaj masnog tkiva u održanju ukupne redoks zavisne metaboličke kontrole u fiziološkim adaptacijama i metaboličkim poremećajima*
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- ▶ **III41009** *Uloga steroidnih hormona u neuroendokrinnoj adaptaciji na stres i patofiziologiji metaboličkog sindroma – molekularni mehanizmi i kliničke implikacije*
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- ▶ **III41014** *Ćelijska i molekulska osnova neuroinflamacije: potencijalna ciljna mesta za translacionu medicinu i terapiju*
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- ▶ **III41031** *Identifikacija molekularnih markera za predikciju progresije tumora, odgovora na terapiju i ishoda bolesti*
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- ▶ **TP31019** *Razvoj i primena biotehnoloških postupaka u dobijanju zdravog sadnog materijala ukrasnih biljaka*
info:eu-repo/grantAgreement/MESTD/Technological Development (TD or TR)/31019/RS//
- ▶ **TP31049** *Razvoj i primena proteinskih markera u odabiru sorti krompira otpornih prema visokim temperaturama*
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DODATNE APLIKACIJE

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Projects

search... ← 1 / 105 →

Characterization and application of fungal metabolites and assessment of new biofungicides potential Foundation for Science and Technology (FCT, Portugal)

Natural products of wild, cultivated and edible plants: structure and bioactivity determination Foundation for Science and Techno and FEDER under Programme PT2

Biotechnology in vitro - crop, medicinal and endangered plant species Study of structure-function relations wall and modifications of the wall str engineering

Investigation on the medicinal plants: morphological, chemical and pharmacological characterisation Micromorphological, phytochemical investigations of plants - systematic applicative aspects

Biological response modifiers in physiological and pathological conditions CONACyT (No. 329930)

FEDER under Programme PT2020 Foundation for Science and Techno and FEDER under Programme PT2 support to CIMO (UID/AGR/00690/2

The membranes as sites of interaction between the intracellular and apoplasmic environments: studies of the bioenergetics and signaling using biophysical and biochemical techniques. Pharmacodynamic and pharmacoge drugs in the treatment of solid tumo

Zero- to Three-Dimensional Nanostructures for Application in Electronics and Renewable Energy Sources: Synthesis, Characterization and Processing Synthesis, processing and characte nanostructured materials for applica energy, mechanical engineering, en and biomedicine

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m22 (15)

m21a (12)

m23 (8)

m13 (2)

m14 (1)

Autori

Author's Bibliography

RIS BibTeX

← 1 / 198 →

Exploiting the bioactive properties of γ -oryzanol from bran of different exotic rice varieties.

Castanho, Ana; Lageiro, Manuela; Calhela, Ricardo C.; Ferreira, Isabel C. F. R.; Soković, Marina; Cunha, Luís M.; Brites, Carla

(2019)

RIS BibTeX



Terpene core in selected aromatic and edible plants: Natural health improving agents

Petrović, Jovana; Stojković, Dejan; Soković, Marina

(2019)

RIS

Synthesis, antimicrobial activity and quantum chemical investigation of novel succinimide derivatives

Petković Cvetković, Jelena; Božić, Bojan Đ.; Banjac, Nebojša R.; Petrović, Jovana; Soković, Marina; Vitnik, Vesna D.; Vitnik, Željko J.; Ušćumlić, Gordana S.; Valentić, Nataša V.

(2019)

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Exploiting the bioactive properties of γ -oryzanol from bran of different exotic rice varieties.

Castanho, Ana; Lageiro, Manuela; Calhella, Ricardo C.; Ferreira, Isabel C. F. R.; Soković, Marina; Cunha, Luís M.; Brites, Carla

(2019)



RIS BibTeX

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@article{
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  year = {2019},
  url = {http://xlink.rsc.org/?DOI=C8F002596G, http://ibiss-r.rcub.b
  journal = {Food and Function, Food and Function},
  title = {Exploiting the bioactive properties of  $\gamma$ -oryzanol from br
  number = {5},
  volume = {10},
  doi = {10.1039/c8fo02596g},
  pages = {2382-2389}
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Synthesis, antimicrobial activity and quantum chemical investigation of novel

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info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173020/RS//	Signaling molecules in diabetes: search for potential targets in intrinsic pathways for prediction and intervention in diabetes
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173025/RS//	Evolution in Heterogeneous Environments: Adaptation Mechanisms, Biomonitoring and Conservation of Biodiversity
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173018/RS//	Ecophysiological adaptive strategies of plants in conditions of multiple stress
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173009/RS//	The effects of select plant extracts, phytoestrogens, steroid and peptide hormones on the rat neuroendocrine system
info:eu-repo/grantAgreement/EC/FP7 /603629/EU//	Managing the effects of multiple stressors on aquatic ecosystems under water scarcity
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173043/RS//	Diversity of the amphibians and reptiles on the Balkan Peninsula: evolutionary and conservation aspects
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173041/RS//	Molecular and physiological biomonitoring of aerobic organisms based on the determination of biochemical biomarkers of oxidative stress
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173015/RS//	Biotechnology in vitro - crop, medicinal and endangered plant species
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Projekti

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Characterization and application of fungal metabolites and assessment of new biofungicides potential

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Characterization and application of fungal metabolites and assessment of new biofungicides potential (en)

Karakterizacija i primena metabolita gljiva i utvrđivanje potencija (sr)

Karakterizacija i primena metabolita gljiva i utvrđivanje potencijala novih bio

Authors

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Barros, Lillian	Ferreira, Isabel C.F.R.	Ferreira, Isab
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Rodríguez-Lopez, Antonio D.	Niketić, Marjan S	Dias, Maria in
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m22 (10)
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m13 (1)

Publications

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← 1 / 51 →

Exploring the chemical and bioactive properties of *Hibiscus sabdariffa* L. calyces from Guinea-Bissau (West Africa).

Jabeur, Inès; Pereira, Eliana; Caleja, Cristina; Calhelha, Ricardo C.; Soković, Marina; Catarino, Luís; Barros, Lillian; Ferreira, Isabel C. F. R.

(2019)

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Bioactivities, chemical composition and nutritional value of *Cynara cardunculus* L. seeds

Petropoulos, Spyridon; Fernandes, Ângela; Pereira, Carla; Tzortzakis, Nikos; Vaz, Josiana; Soković, Marina; Barros, Lillian; Ferreira, Isabel C.F.R.

(2019)

RIS BibTeX

Synthesis, antimicrobial activity and quantum chemical investigation of novel succinimide derivatives

Petković Cvetković, Jelena; Božić, Bojan Đ.; Banjac, Nebojša R.; Petrović, Jovana; Soković, Marina; Vitnik, Vesna D.; Vitnik, Željko J.; Ušćumlić, Gordana S.; Valentić, Nataša V.

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Publications (Altmetric Leaderboard)

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3K3A-activated protein C blocks amyloidogenic BACE1 pathway and improves functional outcome in mice.

Lazić, Divna; Sagare, Abhay P; Nikolakopoulou, Angeliki M; Griffin, John H; Vassar, Robert; Zloković, Berislav V

(2019)



Pericyte degeneration causes white matter dysfunction in the mouse central nervous system.

Montagne, Axel; Nikolakopoulou, Angeliki M; Zhao, Zhen; Sagare, Abhay P; Si, Gabriel; Lazić, Divna; Barnes, Samuel R; Daianu, Madelaine; Ramanathan, Anita; Go, Ariel; Lawson, Erica J; Wang, Yaoming; Mack, William J; Thompson, Paul M; Schneider, Julie A; Varkey, Jobin; Langen, Ralf; Mullins, Eric; Jacobs, Russell E; Zloković, Berislav V

(2018)



Conservation status of freshwater mussels in Europe: state of the art and future challenges.

Lopes-Lima, Manuel; Sousa, Ronaldo; Geist, Juergen; Aldridge, David C; Araujo, Rafael; Bergengren, Jakob; Bespalaya, Yulia; Bódis, Erika; Burlakova, Lyubov; Van Damme, Dirk; Douda, Karel; Froufe, Elsa; Georgiev, Dillan; Gumpinger, Clemens; Karatayev, Alexander; Kebaççi, Ümit; Killen, Ian; Lajtner, Jasna; Larsen, Bjørn M; Lauceri, Rosaria; Legakis, Anastasios; Lois, Sabela; Lundberg, Stefan; Moorkens, Evelyn; Motte, Gregory; Nagei, Kari-Otto; Ondina, Paz; Outeiro, Adolfo; Paunović, Momir; Prié, Vincent; von Proschwitz, Ted; Riccardi, Nicoletta; Rudzile, Mudite; Rudzitis, Māris; Scheder, Christian; Seddon, Mary; Şereflişan, Hülya; Simić, Vladica; Sokolova, Svetlana; Stoeckl, Katharina; Taskinen, Jouni; Teixeira, Amílcar; Thiele, Frank; Trichkova, Teodora; Varandas, Simone; Vicentini, Heinrich; Zajac, Katarzyna; Zajac, Tadeusz; Zogaris, Stamatis

(2017)



Publikacije

3K3A-activated protein C blocks amyloidogenic BACE1 pathway and improves functional outcome in mice.

2019

Authors:

Lazić, Divna
Sagare, Abhay P
Nikolakopoulou, Angeliki M
Griffin, John H
Vassar, Robert
Zloković, Berislav V

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3K3A-activated protein C (APC), a cell-signaling analogue of endogenous blood serine protease APC, exerts vasculoprotective, neuroprotective, and anti-inflammatory activities in rodent models of stroke, brain injury, and neurodegenerative disorders. 3K3A-APC is currently in development as a neuroprotectant in patients with ischemic stroke. Here, we report that 3K3A-APC inhibits BACE1 amyloidogenic pathway in a mouse model of Alzheimer's disease (AD). We show that a 4-mo daily treatment of 3-mo-old 5XFAD mice with murine recombinant 3K3A-APC (100 µg/kg/d i.p.) prevents development of parenchymal and cerebrovascular amyloid-β (Aβ) deposits by 40-50%, which is mediated through NFκB-dependent transcriptional inhibition of BACE1, resulting in blockade of Aβ generation in neurons overexpressing human Aβ-precursor protein. Consistent with reduced Aβ deposition, 3K3A-APC normalized hippocampus-dependent behavioral deficits and cerebral blood flow responses, improved cerebrovascular integrity, and diminished neuroinflammatory responses. Our data suggest that 3K3A-APC holds potential as an effective anti-Aβ prevention therapy for early-stage AD.

Source:

The Journal of Experimental Medicine, 2019, 216, 2, 279-293

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Molecular and physiological biomonitoring of aerobic organisms based on the determination of biochemical biomarkers of oxidative stress(173041)

PROJECT MESTD

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Paunović, Milica G.; Ognjanović, Branka I.; Matić, Miloš M.; Štajn, Andraš Š.; Saičić, Zorica S. (2016)

Project: [MESTD | Molecular and physiologic... \(173041\)](#)

Zaštitno djelovanje estradiola protiv promjena krvnih parametara i oksidativnog stresa u štakora izazvanih akutnim trovanjem kadmijem

Do different diets affect oxidative stress biomarkers and metal bioaccumulation in two snake species?

ARTICLE OPEN

Gavrić, Jelena; Despotović, Svetlana; Prokić, Marko; Gavrilović, Branka; Radovanović, Tijana; Anđelković, Marko Z.; Tomović, Ljiljana; Borković-Mitić, Slavica; Pavlović, Slađan; Saičić, Zorica; (2019)

Project: [MESTD | Molecular and physiologic... \(173041\)](#)


Embargo End Date: 2019-05-24

Antioxidant Response in Gills of Eurasian Perch (*Perca fluviatilis*) to Cyanobacterial Bloom Exposure in the Gruža Reservoir

ARTICLE OPEN

Prokić, Marko; Despotović, Svetlana; Gavrilović, Branka; Gavrić, Jelena P.; Radovanović, Tijana; Stojanović, Ivana; Ognjanović, Branka I. (2016)

Subject: Antioxidant parameters | Cyanobacterial bloom | *Perca fluviatilis* | Eurasian perch | Gills

 **mesheuropmc:** fungi

The aim of this study was to assess the impact of an Aphanizomenon flos-aquae bloom in the Gruža Reservoir on the antioxidant parameters measured in the gill cells of Eurasian perch (*Perca fluviatilis*). Effects of the bloom were evaluated through copper, zinc and manganese... [View more](#)


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Description: It is now widely accepted that bioactive compounds of fruits and vegetables reduce oxidative stress, thus having the beneficial effect of decreasing the risk of many human diseases. The aim of this in vivo study was to evaluate the possible protec...

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Author: Kaluđerović, Goran [[claim](#)]; Bulatović, Mirna [[claim](#)]; Krajnović, Tamara [[claim](#)]; Paschke, Reinhard [[claim](#)]; B. Zmejkovski, Bojana [[claim](#)]; Maksimović-Ivanić, Danijela [[claim](#)]; Mijatović, Sanja [[claim](#)]


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Behavioural Brain Research Volume 339, 26 February 2018, Pages 79-92

Research report

Sleep disorder and altered locomotor activity as biomarkers of the Parkinson's disease cholinopathy in rat

Jelena Ciric^a, Katarina Lazic^a, Slobodan Kapur^{a, b}, Milka Perovic^a, Jelena Petrovic^a, Vesna Pesic^a, Selma Kanazir^a, Jasna Saponjic^a         

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The protective role of virgin coconut oil on the alloxan-induced oxidative stress in the liver, kidneys and heart of diabetic rats.

Author: Đurašević, Siniša; Jasnić, Nebojša; Prokić, Marko; Grigorov, Ilijana; Martinović, Vesna; Đorđević, Jelena; Pavlović, Slađan

Publisher: 2019

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Publication: Food & Function

Summary: The aim of this study was to investigate the potential protective effect of virgin coconut oil (VCO) on oxidative stress parameters in the liver, kidneys and heart of alloxan-induced (150 mg kg⁻¹ i.p.-1) diabetes in rats. Our results showed that daily supplementation of VCO (20% of food) for 16 weeks significantly (p < 0.05) ameliorates some deleterious effects caused by alloxan. VCO reduced the diabetes-related [Read more...](#)Rating: ☆☆☆☆☆ (not yet rated)  0 with reviews - Be the first.

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
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