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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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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
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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

Oznaka projekta



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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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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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Appendix A. dithiolequinolinethiones as new potential multitargeted antibacterial and antifungal agents:

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  Београду, Институт за биолошка истраживања 'Синиша Станковић') </locale>
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doi:10.2298/JGI1602 221D
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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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Остала ауторства:

Prezime, npr. Petrović

Ime, npr. Petar M.

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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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Идентификатор(и): ISSN:1452-7243

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Језик публикације: српски

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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

Correct one of these

Describe Item

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:

Cirić, Jelena 
 Lazić, Katarina 
 Kapor, Slobodan 
 Perović, Milka 
 Petrović, Jelena 
 Pešić, Vesna 
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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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Sleep disorder and altered locomotor activity as biomarkers of the Parkinson's disease cholinopathy in rat

2017

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Autori:

Cirić, Jelena 
 Lazić, Katarina 
 Kapor, Slobodan 
 Perović, Milka 
 Petrović, Jelena 
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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: Cirić 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)

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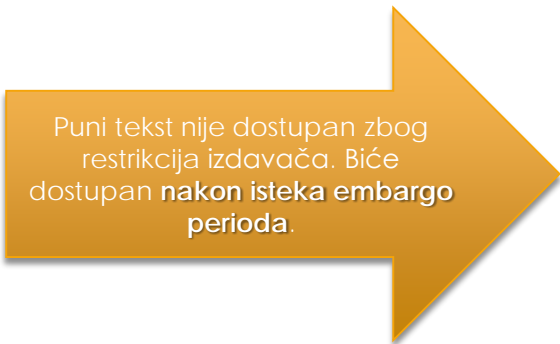


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2019

Authors:

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Abstract:

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

Source:

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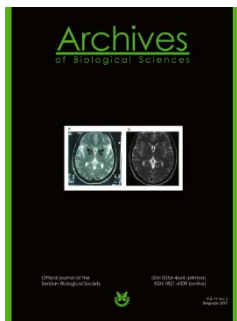
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- ▶ Ministarstvo prosvete, nauke i tehnološkog razvoja Republike Srbije, Ugovor br. 451-03-68/2020-14/200007 (Univerzitet u Beogradu, Institut za biološka istraživanja 'Siniša Stanković')

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

<https://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*
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- ▶ **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//

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

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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*
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173015/RS//
- ▶ **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//

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

<https://nardus.mpn.gov.rs/Files/projectData.xml>

- ▶ **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*
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173024/RS//
- ▶ **OI173025** *Evolucija u heterogenim sredinama: mehanizmi adaptacija, biomonitoring i konzervacija biodiverziteta*
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173025/RS//
- ▶ **OI173027** *Uticaj magnetnih polja i drugih sredinskih stresora na fiziološke odgovore i ponašanje različitih vrsta*
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173027/RS//
- ▶ **OI173035** *Ćelijski i molekularni mehanizmi oporavka pacova od eksperimentalnog autoimunskog encefalomijelitisa*
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- ▶ **OI173039** *Imunomodulatorni efekti ksenobiotika i biotičkih faktora životne sredine na populacije mišolikih glodara*
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173039/RS//

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

<https://nardus.mpn.gov.rs/Files/projectData.xml>

- ▶ **OI173041** *Molekularno fiziološki biomonitoring aerobnih organizama zasnovan na određivanju biohemijskih biomarkera oksidacionog stresa*
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- ▶ **OI173043** *Diverzitet vodozemaca i gmizavaca Balkana: evolucioni aspekti i konzervacija*
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- ▶ **OI173053** *Uloga autofagije u regulaciji smrti tumorskih ćelija*
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173053/RS//
- ▶ **OI173054** *Uloga reaktivnih vrsta kiseonika i azota u reprodukciji: moguća primena u lečenju humanog steriliteta*
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173054/RS//
- ▶ **OI173055** *Belo ili/i mrko: značaj masnog tkiva u održanju ukupne redoks zavisne metaboličke kontrole u fiziološkim adaptacijama i metaboličkim poremećajima*
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173055/RS//


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

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- ▶ **OI173056** *Plastičnost mozga tokom starenja: uticaj dijetalne restrikcije i anestezije*
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- ▶ **III41009** *Uloga steroidnih hormona u neuroendokrinnoj adaptaciji na stres i patofiziologiji metaboličkog sindroma – molekularni mehanizmi i kliničke implikacije*
info:eu-repo/grantAgreement/MESTD/Integrated and Interdisciplinary Research (IIR or III)/41009/RS/
- ▶ **III41014** *Ćelijska i molekulska osnova neuroinflamacije: potencijalna ciljna mesta za translacionu medicinu i terapiju*
info:eu-repo/grantAgreement/MESTD/Integrated and Interdisciplinary Research (IIR or III)/41014/RS//
- ▶ **III41031** *Identifikacija molekularnih markera za predikciju progresije tumora, odgovora na terapiju i ishoda bolesti*
info:eu-repo/grantAgreement/MESTD/Integrated and Interdisciplinary Research (IIR or III)/41031/RS//
- ▶ **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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396cc4d0-6cd3-4e11-97ea-24ca5e0623a5	• Barros, Lillian (124)
orcid::0000-0001-9509-9098	• Mijatović, Sanja (123)
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Projects

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2018 (31)	Characterization and application of fungal metabolites and assessment of new biofungicides potential	Foundation for Science and Technology (FCT, Portugal)
2013 (22)	Natural products of wild, cultivated and edible plants: structure and bioactivity determination	Foundation for Science and Technology (FCT, Portugal) and FEDER under Programme PT2020
2017 (20)	Biotechnology in vitro - crop, medicinal and endangered plant species	Study of structure-function relationships of the cell wall and modifications of the wall engineering
2019 (19)	Investigation on the medicinal plants: morphological, chemical and pharmacological characterisation	Micromorphological, phytochemical and pharmacological investigations of plants - systems and applicative aspects
2015 (19)	Biological response modifiers in physiological and pathological conditions	CONACyT (No. 329930)
2007 (17)	Investigation on the medicinal plants: morphological, chemical and pharmacological characterisation	Foundation for Science and Technology (FCT, Portugal) and FEDER under Programme PT2020
2008 (14)	Biological response modifiers in physiological and pathological conditions	Foundation for Science and Technology (FCT, Portugal) and FEDER under Programme PT2020
2009 (13)	Biological response modifiers in physiological and pathological conditions	CONACyT (No. 329930)
2011 (13)	Biological response modifiers in physiological and pathological conditions	CONACyT (No. 329930)
2012 (10)	FEDER under Programme PT2020	Foundation for Science and Technology (FCT, Portugal) and FEDER under Programme PT2020
2016 (10)	FEDER under Programme PT2020	Foundation for Science and Technology (FCT, Portugal) and FEDER under Programme PT2020
2010 (9)	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 pharmacokinetic studies of drugs in the treatment of solid tumors
2004 (7)	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 pharmacokinetic studies of drugs in the treatment of solid tumors
2003 (6)	Zero- to Three-Dimensional Nanostructures for Application in Electronics and Renewable Energy Sources: Synthesis, Characterization and Processing	Synthesis, processing and characterization of nanostructured materials for application in electronics, mechanical engineering, and biomedicine
2002 (5)	Zero- to Three-Dimensional Nanostructures for Application in Electronics and Renewable Energy Sources: Synthesis, Characterization and Processing	Synthesis, processing and characterization of nanostructured materials for application in electronics, mechanical engineering, and biomedicine

Autori

Author's Bibliography

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Bioactivity-guided identification and isolation of a major antimicrobial compound in *Cistus creticus* subsp. *creticus* leaves and resin "ladano"

Skorić, Marijana; Ćirić, Ana; Budimir, Snežana; Janošević, Dušica; Anđelković, Boban; Todosijević, Marina; Todorović, Slađana; Soković, Marina; Glamočlija, Jasmina; Tešević, Vele; Gašić, Uroš; Mišić, Danijela; Kanellis, Angelos K.

(Elsevier B.V., 2022)

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The Synthesis of Triazolium Salts as Antifungal Agents: A Biological and In Silico Evaluation.

Pogrebnoi, Serghel; Radul, Oleg; Stingaci, Eugenia; Lupascu, Lucian; Vallica, Vladimir; Uncu, Livia; Smetanscaia, Anastasia; Petrou, Anthi; Ćirić, Ana; Glamočlija, Jasmina; Soković, Marina; Geronikaki, Athina; Macea, Filur Z.

(Basel: MDPI, 2022)

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Phenolic Composition and Antioxidant, Anti-Inflammatory, Cytotoxic, and Antimicrobial Activities of Cardoon Blades at Different Growth Stages.

Mandim, Filipa; Petropoulos, Spyridon A.; Pinela, José; Dias, Maria Inês; Kostić, Marina; Soković, Marina; Ferreira, Isabel C. F. R.; Santos-Buelga, Celestino; Barros, Lillian

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Bioactivity-guided identification and isolation of a major antimicrobial compound in *Cistus creticus* subsp. *creticus* leaves and resin "ladano"

Skorić, Marijana; Ćirić, Ana; Budimir, Snežana; Janošević, Dušica; Anđelković, Boban; Todosijević, Marina; Todorović, Slađana; Soković, Marina; Glamočlija, Jasmina; Tešević, Vele; Gašić, Uroš; Mišić, Danijela; Kanellis, Angelos K.

(Elsevier B.V., 2022)

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The Synthesis of Triazolium Salts as Antifungal Agents: A Evaluation.

Pogrebnoi, Serghei; Radul, Oleg; Stingaci, Eugenia; Lupascu, Lucian; Val Anastasia; Petrou, Anthi; Ćirić, Ana; Glamočlija, Jasmina; Soković, Marina

(Basel: MDPI, 2022)

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Mandim, Filipa; Petropoulos, Spyridon A.; Pinela, José; Dias, Maria Inês; Ferreira, Isabel C. F. R.; Santos-Buelga, Celestino; Barros, Lillian

(Basel: MDPI, 2022)

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info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173027/RS// (110)	The effects of magnetic fields and other environmental stressors on the physiological responses and behavior of different species
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173032/RS// (105)	Characterization and application of fungal metabolites and assessment of new biofungicides potential
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173018/RS// (99)	Ecophysiological adaptive strategies of plants in conditions of multiple stress
info:eu-repo/grantAgreement/MESTD/inst-2020/200178/RS// (89)	Ministry of Education, Science and Technological Development, Republic of Serbia, Grant no. 451-03-68/2020-14/200178 (University of Belgrade, Faculty of Biology)
info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/173024/RS// (75)	Physiological, chemical and molecular analysis of the diversity of selected rare and endangered plant species and application of biotechnology for ex situ conservation and production of biologically active compounds

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

Karakterizacija i primena metabolita gljiva i utvrđivanje potencijala novih biofungicida (sr)

Karakterizacija i primena metabolita gljiva i utvrđivanje potencijala novih biofungicida (sr)

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Soković, Marina	Čirić, Ana	Glamočlija, Jasmina
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Publications

RIS BibTeX 1 - 25 / 500

Pygidial glands of the blue ground beetle *Carabus intricatus*: chemical composition of the secretion and its antimicrobial activity

Vesović, Nikola; Nenadić, Marija; Soković, Marina; Čirić, Ana; Vujsić, Ljubodrag V.; Todosijević, Marina M.; Stevanović, Nataša; Perić Mataruga, Vesna; Ilijin, Larisa; Čurčić, Srećko

(Springer-Verlag GmbH Germany, 2022)

RIS BibTeX APA Vancouver Chicago

Therapeutic Potential of Astrocyte Purinergic Signalling in Epilepsy and Multiple Sclerosis.

Nobili, Paola; Shen, Weida; Miličević, Katarina; Bogdanović Pristov, Jelena; Audinat, Etienne; Nikolić, Ljiljana

(Lausanne: Frontiers Media S.A., 2022)



2

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The Influence of Social Isolation on Social Orientation, Sociability, Social Novelty Preference, and Hippocampal Parvalbumin-Expressing Interneurons in Peripubertal Rats - Understanding the Importance of Meeting Social Needs in Adolescence.

Potrebić, Milica; Pavković, Željko; Puškaš, Nela; Pešić, Vesna

(Lausanne: Frontiers Media S.A., 2022)



2

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Three dispersal routes out of Africa: A puzzling biogeographical history in freshwater planarians

Solà, Eduard; Leria, Laila; Stocchino, Giacinta Angela; Bagherzadeh, Reza; Balke, Michael; Daniels, Savel R.; Harrath, Abdel Halim; Khang, Tsung-Fei; Krailas, Duangduen; Kumar, Biju; Li, Mei-Hui; Maghsoudlou, Abdolvahab; Matsumoto, Midori; Naser, Niamul Oben; Benedicte, Segev; Ori, Thielicke, Matthias; Tong, Xiaoli; Živanović, Goran; Manconi, Renata; Baguñà, Jaume; Riutort, Marta

(Hoboken: Wiley, 2022)



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1

Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition)

Dinić, Jelena; Harhaji Trajković, Ljubica; Misirkić Marjanović, Maja; Vučičević, Ljubica

(Informa UK Limited, 2021)



In vitro comparison of the photothermal anticancer activity of graphene nanoparticles and carbon nanotubes

Marković, Zoran M.; Harhaji Trajković, Ljubica; Todorović-Marković, Biljana M.; Kepić, Dejan P.; Arskin, Katarina M.; Jovanović, Svetlana P.; Pantović, Aleksandar C.; Dramićanin, Miroslav D.; Trajković, Vladimir S.

(Elsevier BV, 2011)



Roles of the Raf/MEK/ERK and PI3K/PEN/Akt/mTOR pathways in controlling growth and sensitivity to therapy-implications for cancer and aging

Steelman, Linda S; Chappell, William H; Abrams, Stephen L; Kempf, C Ruth; Long, Jacquelyn M; Laidler, Piotr; Mijatović, Sanja; Maksimović-Ivanić, Danijela; Stivala, Franca; Mazzarino, Maria C; Donia, Marco; Fagone, Paolo; Malaponte, Graziella; Nicoletti, Ferdinando; Libra, Massimo; Milella, Michele; Tafuri, Agostino; Bonati, Antonio; Baesecke, Joerg; Cocco, Lucio; Evangelisti, Camilla; Martelli, Alberto M; Montalto, Giuseppe; Cervello, Melchiorre; McCubrey, James A

(2011)



Ras/Raf/MEK/ERK and PI3K/PEN/Akt/mTOR Inhibitors: Rationale and Importance to Inhibiting These Pathways in Human Health

Chappell, William H; Steelman, Linda S; Long, Jacquelyn M; Kempf, Ruth C; Abrams, Stephen L; Franklin, Richard A; Baesecke, Joerg; Stivala, Franca; Donia, Marco; Fagone, Paolo; Malaponte, Graziella; Mazzarino, Maria C; Nicoletti, Ferdinando; Libra, Massimo; Maksimović-Ivanić, Danijela; Mijatović, Sanja; Montalto, Giuseppe; Cervello, Melchiorre; Laidler, Piotr; Milella, Michele; Tafuri, Agostino; Bonati, Antonio; Evangelisti, Camilla; Cocco, Lucio; Martelli, Alberto M; McCubrey, James A

(2011)



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, Benislav V

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Abstract:

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

Projects:

- National Institute of Health
- National Institute of Health

DOI: 10.1084/jem

PubMed: 30647119

WoS: 00045758

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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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

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