

IZBORNOM VEĆU MEDICINSKOG FAKULTETA UNIVERZITETA U BEOGRADU

Na sednici Izbornog veća Medicinskog fakulteta u Univerziteta u Beogradu održanoj 03. 07. 2019. godine imenovani smo u Komisiju za pisanje referata za izbor jednog redovnog profesora za užu naučnu oblast Hemija u medicini, što je potvrđeno odgovarajućom odlukom broj 4860/8 od 03. 07. 2019. godine. Na osnovu podnetih i prikupljenih podataka podnosimo sledeći

R E F E R A T

Na konkurs objavljen u listu „Poslovi”, dana 04. 09. 2019. godine, u zakonskom roku prijavila se jedna kandidatkinja: Danijela Krstić, doktor biohemijskih nauka, vanredni profesor za užu naučnu oblast Hemija u medicini na Medicinskom fakultetu u Beogradu.

A. BIOGRAFSKI PODACI

–Ime, srednje ime i prezime	Danijela (Zoran) Krstić
–Datum i mesto rođenja	31.08.1969. Vladičin Han
–Diploma	1994. dipl. biohemičar, Hemijski fakultet u Beogradu
–Ustanova gde je zaposlen	Medicinski fakultet u Beogradu
–Zvanje / radno mesto	Vanredni profesor
–Naučna oblast	Hemija u medicini

Kretanje u službi

- 13.06.1996. - 15.06. 2000. istraživač Instituta za nuklearne nauke Vinča
- 15.06. 2000. asistent pripravnika, Medicinski fakultet u Beogradu
- 23. 12. 2004. asistent, Medicinski fakultet u Beogradu
- 23. 05. 2005. naučni saradnik
- 29. 09. 2008. docent, Medicinski fakultet u Beogradu
- 26. 09. 2013. vanredni profesor, Medicinski fakultet u Beogradu
- 29.11.2018. vanredni profesor, Medicinski fakultet u Beogradu (reizbor)

B. DISERTACIJE

1. Magistarska teza:

Uticaj jona Cu, Co, Zn i Fe na aktivnost plazma membranskih enzima Na^+/K^+ -ATPaze i Mg^{2+} ATPaze mozga pacova, Hemijski fakultet Univerziteta u Beogradu 2000. godine

2. Doktorska disertacija

Uticaj specifičnih i nespecifičnih inhibitora na aktivnost Na^+/K^+ -ATPaze membrane humanih eritrocita, Hemijski fakultet Univerziteta u Beogradu 2004. godine

OBAVEZNI USLOVI

C. NASTAVNA DELATNOST

ANGAŽMAN U NASTAVI I STUDENTSKO VREDNOVANJE PEDAGOŠKOG RADA NASTAVNIKA

Dr sci. Danijela Krstić ima 19 godina kontinualnog pedagoškog iskustva i učestvuje u realizaciji teorijske, seminarske i praktične nastave u okviru Integriranih akademskih studija medicine, posle diplomске nastave i pripremne nastave za polaganje prijemnog ispita na Medicinskom fakultetu u Beogradu. U okviru obaveznog zajedničkog predmeta Medicinska biohemija i hemija na Integriranim akademskim studijama medicine u šk. 2018/19. godini održala je ukupno 79 časova nastave (24 časa predavanja, 28 časova seminara i 27 časova vežbi). Ovu nastavu dodatno prati priprema, izvođenje i ocenjivanje rezultata testova za dva redovna i dva popravna kolokvijuma, kao i kolokvijume koji se realizuju u ispitnim rokovima. Kandidatkinja učestvuje u izvođenju svih navedenih vidova nastave iz istog predmeta na engleskom jeziku (4 časa predavanja, 9 časova seminara i 9 časova vežbi).

U izornoj nastavi (u okviru Integriranih akademskih studija) učestvuje u realizaciji 2 izborna predmeta: Medicinski značajne hemijske reakcije kroz oglede i primere (2 časa) i Joni i niskomolekulska jedinjenja u biološkim procesima (odgovorni nastavnik, 30 časova).

Danijela Krstić učestvuje u seminarskoj nastavi na obaveznom predmetu Medicinska fiziologija sa 4 časa godišnje, a u okviru pripreme nastave za polaganje prijemnog ispita ima 9 časova teorijske nastave. U okviru specijalističke nastave iz Kliničke biohemije na predmetu Odabrana poglavlja hemije, fizičke hemije i instrumentalna analiza drži 2 časa predavanja i 2 časa vežbi godišnje. U izornoj nastavi (u okviru Doktorskih akademskih studija-smer fiziološke nauke) učestvuje u izvođenju u 2 izborna predmeta: Neurofiziologija i hiperekscitabilnost (2 časa teorijske nastave) i Fiziološka hemija (odgovorni nastavnik).

U studentskim anketama pedagoški rad dr sci. Danijele Krstić ocenjen je ocenom 5,0.

RAD NA OBEZBEDIVANJU STRUČNOG I NAUČNO-ISTRAŽIVAČKOG PODMLATKA

Dr sci. Danijela Krstić je učestvovala u komisiji za ocenu i odbranu 2 (dve) doktorske disertacije:

1) Mirjana Čolović, Bioanalitičke metode za detekciju i evaluaciju toksičnosti organo-tiofosfatnih insekticida i proizvoda njihove degradacije, Tehnološko-metalurški fakultet Univerziteta u Beogradu, datum odbrane 15. 04. 2014.

2) Branislava Medić, Farmakološka modulacija parametara akutnog ishemijsko-reperfuzijskog oštećenja bubrega u eksperimentalnim modelima *in vivo* i *in vitro*, Medicinski fakultet Univerziteta u Beogradu, datum odbrane 30. 05. 2016.

Dr sci. Danijela Krstić je bila mentor pet završnih (diplomskih)* radova:

1) Milan Randjelović, Modulacija aktivnosti acetilholinesteraze organofosfatnim insekticidima, 2013.

2) Marija Panić, Acetilholinesteraza: farmakologija i toksikologija, 2015.

3) Milan Madoš, Inhibitori acetilholinesteraze u terapiji neuroloških bolesti, 2017.

4) Jovana Milošević, Polioksometalati u biomedicini, 2017.

5) Marko Popović, Uloga aminokiselina sa sumporom u antioksidativnoj zaštiti, 2018.

Bila je član u 8 (osam) komisija za odbranu završnih (diplomskih)* radova na Katedri za hemiju u medicini Medicinskog fakulteta Univerziteta u Beogradu:

1) Nikola Pozojević, Matriks metaloproteinaze 2 i 9 u malignom tkivu karcinoma dojke, 2013.

2) Ivan Rilak, Uloga i značaj cinka u organizmu, 2015.

3) Danica Gaia Popović, Extracellular lipases from *Pseudomonas aeruginosa*, 2015.

4) Miloš Pešić, Oksidativni stress u karcinogenezi, 2015.

5) Milica Vučetić, Superoksid dizmutaza u odabranim patološkim stanjima, 2015.

6) Đorđe Krstić, Značaj određivanja magnezijuma kod akutnog infarkta miokarda, 2017.

7) Maja Đokić, Značaj magnezijuma kod neuroloških oboljenja, 2017.

8) Andrijana Grbić, Magnezijum i astma, 2018.

Pored angažovanja u svim vidovima nastave koje realizuje Katedra za hemiju u medicini, dr sci. Danijela Krstić je rukovodila (kao mentor i komentor) izradom 16 studentskih radova saopštenih na studentskim kongresima, od kojih su dva priznata kao završni (diplomski) rad:

1) Aleksandra Zdravković, Modulacija aktivnosti ATPaza sinaptičkih plazma membrane mozga pacova polioksometalatima, 2017.

2) Milan Lacković, Modulacija aktivnosti acetilholinesteraze polioksovolframata, 2017.

***Integrisane akademske studije medicine traju 12 semestara (360 ESPB), pa završni (diplomski) rad odgovara master radu na master akademskim studijama drugog stepena.**

D. UDŽBENICI, ZBIRKE ZADATAKA I PRAKTIKUMI

Pre izbora u zvanje vanrednog profesora

1. Gopčević K, Vujić V, Stojanović K, Dragutinović V, **Krstić D**, Radosavljević B, Avramović N, Izrael-Živković L, Bašić R. Praktikum iz hemije sa random sveskom i zbirkom zadataka za studente II godine medicinskog fakulteta (prvo izdanje, urednik Karadžić I.), Medicinski fakultet Univerziteta u Beogradu, CIBID 2005.

2. Vujović Z, Karadžić I, Gopčević K, Vujić V, Stojanović K, **Krstić D**. Odabrana poglavlja iz hemije za studente Medicinskog fakulteta, Medicinski fakultet Univerziteta u Beogradu, CIBID 2006.

3. Gopčević K, Vujić V, Stojanović K, Dragutinović V, **Krstić D**, Radosavljević B, Avramović N, Izrael-Živković L, Bašić R. Praktikum iz hemije sa random sveskom i zbirkom zadataka za studente II godine medicinskog fakulteta (drugo dopunjeno izdanje, urednik Karadžić I.), Medicinski fakultet Univerziteta u Beogradu, CIBID 2006.

4. Gopčević K, Vujić V, Stojanović K, Dragutinović V, **Krstić D**, Radosavljević B, Avramović N, Izrael-Živković L, Bašić R. A practical guide to chemistry exercises with workbook and collection of numerical problems for 2nd year students of medicine School of Medicine, University of Belgrade, CIBID 2006 (prevod prvog izdanja Praktikuma na srpskom jeziku, urednik Karadžić I.).

5. Gopčević K, Vujić V, Stojanović K, Dragutinović V, **Krstić D**, Radosavljević B, Avramović N, Izrael-Živković L, Bašić R. A practical guide to chemistry exercises with workbook and collection of numerical

problems for 2nd year students of medicine School of Medicine, University of Belgrade, CIBID 2008 (second edition, editor Karadžić I.).

6. Gopčević K, Vujić V, Stojanović K, Dragutinović V, **Krstić D**, Radosavljević B, Avramović N, Izrael-Živković L, Bašić R. A practical guide to chemistry exercises with workbook and collection of numerical problems for 2nd year students of medicine School of Medicine, University of Belgrade, CIBID 2012 (third edition, editor Karadžić I.).

7. Gopčević K, Vujić V, Stojanović K, Dragutinović V, **Krstić D**, Radosavljević B, Avramović N, Izrael-Živković L, Bašić R. Praktikum iz hemije sa random sveskom i zbirkom zadataka za studente II godine medicinskog fakulteta (treće dopunjeno izdanje, urednik Karadžić I.), Medicinski fakultet Univerziteta u Beogradu, CIBID 2013.

Posle izbora u zvanje vanrednog profesora

8. Gopčević K, Vujić V, Stojanović K, Dragutinović V, **Krstić D**, Radosavljević B, Avramović N, Izrael-Živković L, Bašić R. Praktikum iz hemije sa random sveskom i zbirkom zadataka za studente II godine medicinskog fakulteta (četvrto dopunjeno izdanje, urednik Karadžić I.), Medicinski fakultet Univerziteta u Beogradu, CIBID 2014.

9. Gopčević K, Vujić V, Stojanović K, Dragutinović V, **Krstić D**, Radosavljević B, Avramović N, Izrael-Živković L, Bašić R. A practical guide to chemistry exercises with workbook and collection of numerical problems for 2nd year students of medicine School of Medicine, University of Belgrade, CIBID 2015 (fourth edition, editor Karadžić I.).

10. Gopčević K, Vujić V, Stojanović K, Dragutinović V, **Krstić D**, Radosavljević B, Avramović N, Izrael-Živković L, Bašić R. Praktikum iz hemije sa random sveskom i zbirkom zadataka za studente II godine medicinskog fakulteta (peto dopunjeno izdanje, urednik Karadžić I.), Medicinski fakultet Univerziteta u Beogradu, CIBID 2016.

11. Gopčević K, Vujić V, Stojanović K, Dragutinović V, **Krstić D**, Radosavljević B, Avramović N, Izrael-Živković L, Bašić R. A practical guide to chemistry exercises with workbook and collection of numerical problems for 2nd year students of medicine School of Medicine, University of Belgrade, CIBID 2016 (prevod petog izdanja Praktikuma na srpskom jeziku, urednik izdanja na srpskom jeziku Karadžić I., editor of the english edition Avramović N.).

12. Vujović Z, Karadžić I, Gopčević K, Vujić V, Stojanović K, **Krstić D**. Odabrana poglavlja iz hemije za studente Medicinskog fakulteta, Medicinski fakultet Univerziteta u Beogradu, CIBID 2016. (drugo dopunjeno izdanje, prvo elektronsko izdanje).

E. NAUČNO-ISTRAŽIVAČKI RAD

UKOVOĐENJE NAUČNIM PROJEKTIMA I UČEŠĆE NA NAUČNIM PROJEKTIMA

Domaći projekti: Dr sci. Danijela Krstić učestvovala je na sledećim projektima koje je finansiralo i finansira Ministarstvo prosvete, nauke i tehnološkog razvoja Republike Srbije:

1) od 2002. do 2005. godine: „Fizičko-hemijska ispitivanja mehanizma reakcija biološki aktivnih organskih jedinjenja“ (br.1991); Rukovodilac: dr Vesna Vasić, naučni savetnik Instituta za nuklearne nauke Vinča.

2) od 2006. do 2010. godine: „Istraživanje mehanizama interakcija biološki aktivnih jedinjenja sa biomolekulima“ (br. 142051); Rukovodilac: dr Vesna Vasić, naučni savetnik Instituta za nuklearne nauke Vinča.

3) od 2011. „Istraživanja interakcija enzima sa toksičnim i farmakološki aktivnim molekulima“ (br. 172023); Rukovodilac: dr Vesna Vasić, naučni savetnik Instituta za nuklearne nauke Vinča.

4) od 2011. „Razvoj animalnih modela epilepsije i testiranje konvulzivnih i antikonvulzivnih supstanci “ (br. 175032); Rukovodilac: Prof. dr Olivera Stanojlović, Medicinski fakultet Univerziteta u Beogradu.

Međunarodni projekti:

1) „Experimental and theoretical studies of some polyoxovanadates interaction with Na⁺/K⁺-ATPase and Ca²⁺-ATPase“, (br. 69-00-4/2012-09/04), u okviru bilateralne saradnje između Srbije i Francuske, 2011-2012. Rukovodioci (sa srpske strane): **dr Danijela Krstić**, (sa francuske strane): Prof. Anne Spasojević-de Biré
Finansiranje: Centre national de la recherche scientifique i Ministarstvo prosvete, nauke i tehnološkog razvoja Republike Srbije

2) „Polyoxopalladates: ATPases inhibition studies and toxicity evaluation“, (br. 451-03-01038/2015-09/16), u okviru bilateralne saradnje između Srbije i Nemačke, 2016-2017. Rukovodioci (sa srpske strane): **dr Danijela Krstić**, (sa nemačke strane): Prof. Ulrich Kortz

Finansiranje: Deutscher Akademischer Austauschdienst –DAAD i Ministarstvo prosvete, nauke i tehnološkog razvoja Republike Srbije

3) „Polyoxometalates as potential anticancer and anti-Alzheimer drugs: modulation of Na⁺/K⁺-ATPase and acetylcholinesterase activity“, (br. 451-03-01039/2015-09/18, u okviru bilateralne saradnje između Srbije i

Austrije, 2016-2017, Rukovodioci (sa srpske strane): dr Mirjana Čolović, (sa austrijske strane): Prof. Annette Rompel

Finansiranje: Austrian agency for international mobility and cooperation in education, science and research i Ministarstvo prosvete, nauke i tehnološkog razvoja Republike Srbije

4) „Acetylcholinesterase Inhibitors as Potential Anti-Alzheimer Drugs: Prooxidative and Cytogenotoxic Properties (SafeAChE)“ („Inhibitori acetilholinesteraze kao potencijalni terapeutici za Alchajmerovu bolest: prooksidativna i citogenotoksična svojstva (SafeAChE)“), (br. 337-00-205/2019-09/19), u okviru bilateralne saradnje između Srbije i Hrvatske, 2019-2021. Rukovodioci (sa srpske strane): dr Mirjana Čolović, (sa hrvatske strane): dr Goran Gajski

Finansiranje: Ministarstvo prosvete, nauke i tehnološkog razvoja Republike Srbije i Ministarstvo znanosti i obrazovanja Republike Hrvatske

5) MC Member u COST Action CM1203 Polyoxometalate Chemistry for Molecular Nanoscience (PoCheMoN), 2012-2016.

Finansiranje: EU-funded programme.

6) MC Member u COST Action CA16113CliniMARK: ‘good biomarker practice’ to increase the number of clinically validated biomarkers 2017-2021.

Finansiranje: EU-funded programme.

BORAVCI I USAVRŠAVANJA U INOSTRANSTVU

- Kurs primenjene biotehnologije: “Agro-food training course”; organizatori: Bologna University (Italy) and „Bay Zoltan” Institute for Biotechnology (Hungary), školske 1998/99.

- Laboratory “Structures Propriétés et Modélisation des Solides”, Ecole Centrale Paris, 12-19. 11. 2011.

- Department of Life Sciences & Chemistry, Jacobs University, Bremen, Nemačka, 22-28. 08. 2016.

- Faculty of Chemistry, University of Vienna, 03-09. 12. 2016.

- Department of Life Sciences & Chemistry, Jacobs University, Bremen, Nemačka, 21-28. 07. 2017.

- STSM, Institut za medicinska istraživanja i medicinu rada, Zagreb, Hrvatska, 07-14. 04. 2019.

- Institut za medicinska istraživanja i medicinu rada, Zagreb, Hrvatska, 29.07 - 05. 08. 2019.

NAUČNI RAD

Dr sci. Danijela Krstić je priložila spisak od 144 naučnih publikacija. Od izbora u zvanje vanrednog profesora kandidatkinja je objavila 60 naučnih publikacija.

Danijela Krstić ima ukupno 47 (četrdeset sedam) radova objavljenih u časopisima sa JCR liste (od čega 3 rada iz kategorije M21a, 13 radova iz kategorije M21, 8 radova iz kategorije M22 i 23 rada iz kategorije M23 sa ukupnim IF = 91,007 (u 8 (osam) radova je prvi autor, a u 9 (devet) je nosilac rada i/ili korespondirajući autor), 1 (jedno) poglavlje u monografiji vodećeg međunarodnog značaja (M13), 1 (jedno) poglavlje u monografiji međunarodnog značaja (M14), 4 (četiri) rada u nacionalnim časopisima, ukupno 91 (devedeset jedno) saopštenje na međunarodnim i nacionalnim skupovima od čega: 30 (trideset) celih radova u zbornicima sa međunarodnih skupova, 49 (četrdeset devet) izvoda u zborniku sa međunarodnog skupa, 4 (četiri) cela rada u zbornicima sa nacionalnih skupova i 8 (osam) izvoda u zbornicima sa nacionalnih skupova.

Od izbora u zvanje vanrednog profesora dr sci. Danijela Krstić objavila je 17 (sedamnaest) publikacija u časopisima sa JCR liste (od čega 2 rada iz kategorije M21a, 9 radova iz kategorije M21 i 6 radova iz kategorije M23), 2 (dva) rada u nacionalnom časopisu (M53), 1 (jedno) poglavlje u monografiji međunarodnog značaja (M14), 10 (deset) celih radova u zborniku međunarodnog skupa (u 4 je nosilac rada, u 1 radu je prvi autor i u 5 rada je saradnik), 26 (dvadeset šest) izvoda u zborniku međunarodnog skupa (u 1 je jedini autor, u 1 je prvi autor, u 11 je nosilac rada, a u 13 je saradnik) i 4 (četiri) izvoda u zbornicima sa nacionalnih skupova. Održala je dva predavanja po pozivu na međunarodnim skupovima:

-2nd World Congress on Pharmacology & Toxicology, Rome, Italy, 16-18.08. 2018.

In vivo hypoglycemic effect of (NH₄)₁₄[NaP₅W₃₀O₁₁₀]•31H₂O in rats with streptozotocin-induced diabetes.

-2nd World Summit on Toxicology & Applied Pharmacology, Berlin, Germany, June 03-04, 2019.

Polyoxometalates as promising drugs: toxicological aspects (Keynote talk) i bila član organizacionog komiteta skupa “2nd World summit on Toxicology & Applied Pharmacology”, održanom u Berlinu, 03-04. jun 2019. <https://scientificfederation.com/toxicology-2019/committee.php>

Priloženi radovi i njihova analiza pokazuju zaista široko interesovanje kandidata u oblasti enzimologije, medicinske hemije, biosenzora i toksikologije. Najveći broj objavljenih radova odnosi se na *in vitro* ispitivanja mehanizama modulacije enzimске katalize: ATPaza (Natrijumova pumpa, Ecto-ATPaza) i holinesteraza (AChE, BuChE) u prisustvu biološki aktivnih organskih i neorganskih jedinjenja. Ispitivani su mehanizmi interakcija navedenih enzima sa: jonima teških i prelaznih metala, specifičnim inhibitorima natrijumove pumpe, organofosfatnim pesticidima i njihovim degradacionim proizvodima, kao i kompleksnim jedinjenjima plemenitih metala i polioksometalatima (vanadijuma i volframa) koja pokazuju potencijalnu antitumorsku aktivnost. Za navedena ispitivanja korišćeno je nekoliko model sistema: 1) komercijalni enzimski

preparati 2) membrane humanih i animalnih krvnih ćelija i 3) sinaptičke membrane eksperimentalnih životinja (pacova, kunića).

Dalja istraživanja kandidata usmerena su ka primeni rezultata fundamentalnih ispitivanja modulacije aktivnosti navedenih enzima u prisustvu biološki aktivnih jedinjenja, i to u dva pravca:

1) testiranje enzima kao biološke komponente biosenzora za kontrolu kvaliteta lekova iz grupe kardioaktivnih steroida i detekciju toksičnih metalnih jona, organofosfatnih pesticida i njihovih degradacionih proizvoda. U toku realizacije ovih istraživanja Danijela Krstić je ostvarila saradnju sa Univerzitetom u Novoj Gorici (Laboratory for Environmental Research, University of Nova Gorica, Slovenia).

2) korelacija *in vitro* indukovane enzimske modulacije sa uticajem ispitivanih jedinjenja na funkcionisanje zdravih i malignih ćelija (praćenjem različitih markera toksičnosti), izlaganjem kulture ćelija i/ili eksperimentalnih životinja navedenim jedinjenjima. U okviru ovih istraživanja dr sci. Danijela Krstić je uključena u testiranje konvulzivnih i antikonvulzivnih supstanci, kao i kardiotoksičnih i kardioprotektivnih supstanci, u saradnji sa Institutom za Medicinsku fiziologiju "Rihard Burjan" Medicinskog fakulteta u Beogradu.

Novija istraživanja usmerena su ka testiranju biološke aktivnosti novosintetisanih polioksometalata iz grupe polioksovanadata u saradnji sa Prof. A. Spasojević-de Biré (Laboratory "Structures Propriétés et Modélisation des Solides"), Pariz, Francuska. Kao rezultat ove saradnje publikovna su tri rada u međunarodnim časopisima i urađena doktorska disertacija: „Experimental and theoretical charge density analysis of functionalized polyoxovanadates: toward a better understanding of chemical bonding and chemical reactivity” (kandidat: Xiao Xu, odbranjena 2015.), <https://www.theses.fr/2015ECAP0026.pdf>. U okviru studijskog boravka u ovoj laboratoriji dr sci. Danijela Krstić je 18. 11. 2011. održala predavanje pod naslovom: „ATPases-activity and inhibition“ na Farmaceutskom fakultetu u Parizu, Francuska.

Od 2015. dr sci. Danijela Krstić realizuje saradnju sa Prof. U. Kortzom (Department of Life Sciences & Chemistry) sa Univerziteta Jacobs, Bremen, Nemačka, a koji je jedan od svetskih lidera u sintetskoj hemiji polioksometalata. U okviru ove saradnje Danijela Krstić ispituje biološku aktivnost novosintetisanih polioksopaladata i polioksovolframata: interakcije ovih jedinjenja sa enzimima pri *in vitro* izlaganju, potencijalnu primenu ovih jedinjenja u terapiji nekih neuroloških bolesti, tumora i dijabetesa, kao i njihovu toksičnost pri *in vivo* izlaganju eksperimentalnih životinja. Kao rezultat ove saradnje publikovano je nekoliko saopštenja na međunarodnim skupovima i dva rada u međunarodnim časopisima (M21 i M21a). U okviru studijskog boravka na Jacobs Univerzitetu Danijela Krstić je 25. 08. 2016. održala predavanje pod naslovom: „ATPases and acetylcholinesterase-target enzymes for some pharmacologically active and toxic compounds“.

<http://ukortz.user.jacobs-university.de/guest-speakers/>

Od 2017. Danijela Krstić je MC member u COST Action CA16113CliniMARK: ‘good biomarker practice’ to increase the number of clinically validated biomarkers. U okviru ove COST akcije član je radnih grupa 1: (WG1 Selection and analytical validation of biomarker detection technique(s)) i 3. (WG3 Implementation of BBP guidelines). U okviru WG3 rukovodi aktivnostima vezanim za biobanke za COPD i slične bolesti, a na mitingu u Lisabonu 13.03.2018. održala je prezentaciju pod nazivom: „Identification of the most suitable samples/biobanks“. Kandidatkinja je organizovala 4th CliniMark Cost Action CA16113 meeting, koji je održan 20. – 22. septembar 2018. na Medicinskom fakultetu Univerziteta u Beogradu.

http://mail.ipb.ac.rs/~ncc-serbia/Uspesne_Price.php

Analiza priloženih radova Danijele Krstić pokazuje široko interesovanje, multidisciplinarni pristup i biomedicinsku orijentaciju naučnog i istraživačkog rada, kao i doprinos u unapređenju timskog rada i saradnje sa drugim naučnim institucijama u zemlji i inostranstvu.

1. MONOGRAFIJE

Kandidatkinja nema publikacije ovog tipa.

2. POGLAVLJA U KNJIGAMA, PREGLEDNI ČLANCI

2.1 Poglavlje u monografiji (M13)

Pre izbora u zvanje vanrednog profesora

2.1.1. Momić T, Čolović M, **Krstić D**, Vesna Vasić, Inhibition of Na⁺,K⁺-ATPase and Mg²⁺-ATPase by Metal Ions and Complexes. **Advances in Chemistry Research** (Editor: James C. Taylor), Nova science Publishers, Inc. Hauppauge New York, United States of America (2011), 9, 93-137. (ISBN 978-1-61209-702-2)

2.2. Poglavlje u monografiji (M14)

Posle izbora u zvanje vanrednog profesora (1 poglavlje)

2.2.1. Peković S, Dacić S, **Krstić D**, Jeremić R, Djelić M, Brkić P. Hyperbaric oxygen therapy in traumatic brain injury: cellular and molecular mechanisms. **Hyperbaric Oxygen Treatment in Research and Clinical Practice - Mechanisms of Action in Focus** (Edited by Ines Drenjančević), InTech - open science /open minds,

(2018), Chapter 3, 25-45. <https://www.intechopen.com/books/hyperbaric-oxygen-treatment-in-research-and-clinical-practice-mechanisms-of-action-in-focus>

3. Naučni radovi objavljeni u časopisima međunarodnog značaja

Napomena: *pored imena označava da je Danijela Krstić bila korespondirajući autor.

3.1. Radovi u međunarodnim časopisima izuzetne vrednosti (M21a):

Pre izbora u zvanje vanrednog profesora

3.1.1. Lefranc F, Mijatović T, Kondo Y, Sauvage S, Roland I, **Krstić D**, Vasić V, Gailly P, Kondo S, Blanco G, Kiss R. Targeting the $\alpha 1$ subunit of the sodium pump to combat glioblastoma cells, *Neurosurgery*, (2008), 62(1), 211-222. <https://doi.org/10.1227/01.NEU.0000311080.43024.0E>
Surgery, 14/148, 2008, **IF 3,398**

Posle izbora u zvanje vanrednog profesora (2 rada)

3.1.2. Dinčić M, **Krstić D***, Čolović M, Nešović-Ostojić J, Kovačević S, de Luka S, Djordjević D, Ćirković S, Brkić P, Todorović J. Modulation of rat synaptosomal ATPases and acetylcholinesterase activities induced by chronic exposure to the static magnetic field. *International Journal of Radiation Biology*, (2018), 94 (11), 1062-1071. <https://doi.org/10.1080/09553002.2018.1518611>
Nuclear Science & Technology, 3/34, 2018, **IF 2,266**

3.1.3. Yang P, Ma T, Lang Z, Misirlic-Dencic S, Isakovic A, Benyei A, Čolović M, Markovic I, **Krstić D**, Poblet J, Lin Z, Kortz U. Tetravalent Metal Ion Guests in Polyoxopalladate Chemistry: Synthesis and Anticancer Activity of $[\text{MO}_8\text{Pd}_{12}(\text{PO}_4)_8]^{12-}$ (M = SnIV, PbIV). *Inorganic Chemistry*, (2019), 58 (17), 11294-11299. <https://doi.org/10.1021/acs.inorgchem.9b01129>
Chemistry, Inorganic & Nuclear, 4/45, 2018, **IF 4,850**

3.2 Radovi u vrhunskim časopisima međunarodnog značaja (M21):

Pre izbora u zvanje vanrednog profesora

3.2.1. Vasić V, Momić T, Petković M, **Krstić D**. Na^+, K^+ -ATPase as the Target Enzyme for Organic and Inorganic Compounds, *Sensors* (2008), 8(12), 8321-8360. <https://doi.org/10.3390/s8128321>
Instruments & Instrumentation, 11/56, 2008, **IF 1,870**

3.2.2. Čolović M, **Krstić D**, Petrović S, Leskovac A, Joksić G, Savić J, Franko M, Trebše P, Vasić V, Toxic effects of diazinon and its photodegradation products, *Toxicology Letters*, (2010), 193(1), 9-18. <https://doi.org/10.1016/j.toxlet.2009.11.022>
Toxicology, 17/83, 2010, **IF 3,581**

3.2.3. Čolović M, **Krstić D**, Ušćumlić S, Vasić V. Single and simultaneous exposure of acetylcholinesterase to diazinon, chlorpyrifos and their photodegradation products, *Pesticide Biochemistry and Physiology*, (2011), 100(1), 16-22. <https://doi.org/10.1016/j.pestbp.2011.01.010>
Entomology, 18/86, 2011, **IF 1,713**

3.2.4. Petrović V, Čolović M, **Krstić D**, Vujačić A, Petrović S, Joksić G, Bugarčić Ž, Vasić V. *In vitro* effects of some gold complexes on Na^+/K^+ ATPase activity and cell proliferation. *Journal of Inorganic Biochemistry*, (2013), 124, 35–41. <https://doi.org/10.1016/j.jinorgbio.2013.03.013>
Chemistry, Inorganic & Nuclear, 8/45, 2013, **IF 3,274**

Posle izbora u zvanje vanrednog profesora (9 radova)

3.2.5. Hrnčić D, Rašić-Marković A, Leković J, **Krstić D**, Čolović M, Macut Dj, Šušić V, Djurić D, Stanojlović O. Exercise Decreases Susceptibility to Homocysteine Seizures: the Role of Oxidative Stress. *International Journal of Sports Medicine*, (2014), 35 (7), 544-550. DOI: 10.1055/s-0033-1357162 <https://eref.thieme.de/FFWPR>
Sport Sciences, 24/81, 2014, **IF 2,065**

3.2.6. Čolović M, Vasić, Avramović N, Gajić M, Djurić D, **Krstić D.*** *In vitro* evaluation of neurotoxicity potential and oxidative stress responses of diazinon and its degradation products in rat brain synaptosomes, *Toxicology Letters*, (2015), 233 (1), 29-37. <https://doi.org/10.1016/j.toxlet.2015.01.003>
Toxicology, 18/90, 2015, **IF 3,522**

3.2.7. **Krstić D**,* Tomić N, Radosavljević B, Avramović N, Dragutinović V, Radojević Škodrić S, Čolović M. Biochemical Markers of Renal Function. *Current Medicinal Chemistry* (2016), 23(19), 2018-2040. <https://doi.org/10.2174/0929867323666160115130241>
Chemistry, Medicinal, 16/60, 2016, **IF 3,249**

3.2.8. Xu X, Bošnjaković-Pavlović N, Čolović M, **Krstić D***, Vasić V, Gillet JM, Wu P, Wei Y, Spasojević-de Biré A. A combined crystallographic analysis and ab initio calculations to interpret the reactivity of functionalized hexavanadates and their inhibitor potency toward Na⁺/K⁺-ATPase. *Journal of Inorganic Biochemistry* (2016), 161, 27–36. <https://doi.org/10.1016/j.jinorgbio.2016.04.029>
Chemistry, Inorganic & Nuclear, 10/46, 2016, **IF 3,348**

3.2.9. Bondžić A, Čolović M, Janjić G, Zarić B, Petrović S, **Krstić D**, Marzo T, Messori L, Vasić V. The influence of oxo-bridged binuclear gold(III) complexes on Na/K-ATPase activity: a joint experimental and theoretical approach. *Journal of Biological Inorganic Chemistry*, (2017), 22 (6), 819-832. <https://doi.org/10.1007/s00775-017-1460-5>
Chemistry, Inorganic & Nuclear, 11/45, 2017, **IF 2,952**

3.2.10. Čolović M, Medić B, Četković M, Kravić Stevović T, Stojanović M, Ayass W, Mougharbel A, Radenković M, Prostran M, Kortz U, **Krstić D**.* Toxicity evaluation of two polyoxotungstates with anti-acetylcholinesterase activity. *Toxicology and Applied Pharmacology*, (2017), 333, 68-75. <https://doi.org/10.1016/j.taap.2017.08.010>
Toxicology, 20/94, 2017, **IF 3,616**

3.2.11. Čolović M, Vasić V, Djurić D, **Krstić D**.* Sulphur-containing amino acids: protective role against free radicals and heavy metals. *Current Medicinal Chemistry*, (2018), 25(3), 324-335. <https://doi.org/10.2174/0929867324666170609075434>
Chemistry, Medicinal, 12/61, 2018, **IF 3,894**

3.2.12. Medić B, Stojanović M, Štimec B, Divac N, Savić Vujović K, Stojanović R. Čolović M, **Krstić D**, Prostran M. Lithium – pharmacological and toxicological aspects: the current state of the art. *Current Medicinal Chemistry* 2018. <https://doi.org/10.2174/0929867325666180904124733>
Chemistry, Medicinal, 12/61, 2018, **IF 3,894**

3.2.13. Bošnjaković-Pavlović N, Xu X, **Krstić D**, Gillet JM, Wei Y, Wu P, Čolović M, Spasojević-de Bire A. Experimental and theoretical insights of functionalized hexavanadates on Na⁺/K⁺-ATPase activity; molecular interaction field, *ab initio* calculations and *in vitro* assays. *Journal of Inorganic Biochemistry*, (2019), 198, Article number 110720 <https://doi.org/10.1016/j.jinorgbio.2019.110720>
Chemistry, Inorganic & Nuclear, (11/45), 2018, **IF 3,224**

3.3 Radovi u istaknutim časopisima međunarodnog značaja (M22):

Pre izbora u zvanje vanrednog profesora

3.3.1. Vasić V, Krinulović K, **Krstić D**, Momić T, Horvat A. ATPases as multi-response sensing system for various organic and inorganic analytes, *Monatshefte für Chemie/Chemical Monthly*, (2004) 135(5), 605-614. <https://doi.org/10.1007/s00706-003-0156-4>
Chemistry, Multidisciplinary, 57/124, 2004, **IF 0,904**

3.3.2. **Krstić D**, Krinulović K, Spasojević-Tišma V, Joksić G, Momić T, Vasić V. Effects of digoxin and gitoxin on the enzymatic activity and kinetic parameters of Na⁺/K⁺-ATPase, *Journal of Enzyme Inhibition and Medicinal Chemistry*, (2004), 19 (5), 409 – 415. <https://doi.org/10.1080/14756360410001722065>
Chemistry, Medicinal, 19/36, 2004, **IF 1,423**

3.3.3. **Krstić D**, Krinulović K, Vasić V. Inhibition of Na⁺/K⁺-ATPase and Mg²⁺-ATPase by metal ions and prevention and recovery of inhibited activities by chelators, *Journal of Enzyme Inhibition and Medicinal Chemistry*, (2005), 20 (5), 469 – 476. <https://doi.org/10.1080/14756360500213280>
Chemistry, Medicinal, 17/34, 2005, **IF 1,667**

3.3.4. **Krstić D**, Tomić N, Krinulović K, Vasić V. The influence of potassium ion (K⁺) on digoxin-induced inhibition of porcine cerebral cortex Na⁺/K⁺-ATPase, *Journal of Enzyme Inhibition and Medicinal Chemistry*, (2006), 21 (4), 471-475. <https://doi.org/10.1080/14756360600642230>
Chemistry, Medicinal, 18/35, 2006, **IF 1,636**

3.3.5. Krinulović K, Bugarčić Ž, Vrvic M, **Krstić D**, Vasić V. Prevention and recovery of (μ^3 -diethylentriamino)-chloro-palladium(II) chloride induced inhibition of Na^+/K^+ -ATPase by SH containing ligand –L-cysteine and glutathione, *Toxicology in Vitro*, (2006), 20 (8), 1292-1299. <https://doi.org/10.1016/j.tiv.2006.03.002>
Toxicology, 31/75, 2006, **IF 2,045**

3.3.6. Hrnčić D, Rašić-Marković A, **Krstić D**, Macut Dj, Djurić D, Stanojlović O. The role of nitric oxide in homocysteine thiolactone-induced seizures in adult rats, *Cellular and Molecular Neurobiology*, (2010), 30(2), 219-231. <https://doi.org/10.1007/s10571-009-9444-9>
Neurosciences, 141/239, 2010, **IF 2,423**

3.3.7. Čolović M, Bajuk-Bogdanović D, Avramović N, Holclajtner-Antunović I, Bošnjaković-Pavlović N, Vasić V, **Krstić D***. Inhibition of rat synaptic membrane Na^+/K^+ -ATPase and ecto-nucleoside triphosphate diphosphohydrolases by 12-tungstosilicic and 12-tungstophosphoric acid, *Bioorganic and Medicinal Chemistry* (2011), 19(23), 7063–7069. <https://doi.org/10.1016/j.bmc.2011.10.008>
Chemistry, Organic, 17/56, 2011, **IF 2,921**

3.3.8. Čolović M, **Krstić D***, Lazarević-Pašti T, Bondžić A, Vasić V. Acetylcholinesterase Inhibitors: Pharmacology and Toxicology. *Current Neuropharmacology*, 2013, 11(3), 315-335. <https://dx.doi.org/10.2174%2F1570159X11311030006>
Pharmacology & Pharmacy, 121/256, 2013, **IF 2,347**

3.4 Radovi u časopisima međunarodnog značaja (M23):

Pre izbora u zvanje vanrednog profesora

3.4.1. Vasić V, Jovanović D, **Krstić D**, Nikezić G, Vujisić Lj, Nedeljković N. Prevention and recovery of CuSO_4 - induced inhibition of Na^+/K^+ -ATPase and Mg^{2+} -ATPase in rat brain synaptosomes by EDTA, *Toxicology Letters*, (1999), 110, (1-2), 95-104. [https://doi.org/10.1016/s0378-4274\(99\)00144-7](https://doi.org/10.1016/s0378-4274(99)00144-7)
Toxicology, 48/74, 1999, **IF 0,773**

3.4.2. Vujisić Lj, **Krstić D**, Vučetić J. Chemical aspect of cobalt ion influence on ATPase activity, *Journal of the Serbian Chemical Society*, (2000), 65, 507-515. <https://doi.org/10.2298/JSC0007507V>
Chemistry, Multidisciplinary, 91/118, 2000, **IF 0,277**

3.4.3. Vujisić Lj, **Krstić D**, Krinulović K, Vasić V. Influence of transition and heavy metal ions on ATP-ases activity in rat synaptic plasma membrane, *Journal of Serbian Chemical Society* (2004), 69 (7), 541-547. <https://doi.org/10.2298/JSC0407541V>
Chemistry, Multidisciplinary, 85/124, 2004, **IF 0,522**

3.4.4. **Krstić D***, Čolović M, Krinulović K, Djurić D, Vasić V. Inhibition of AChE by single and simultaneous exposure to malathion and its degradation products, *General Physiology and Biophysics*, (2007), 26, 247-253. https://www.ncbi.nlm.nih.gov/pubmed/18281741?ordinalpos=9&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum
Biochemistry & Molecular Biology, 215/263, 2007, **IF 1,286**

3.4.5. Rašić-Marković A, **Krstić D**, Vujović Z, Jakovljević V, Stanojlović O, Hrnčić D, Djurić D, Lončar-Stevanović H. Modulations of rabbit erythrocyte ATPase activities induced by in vitro and in vivo exposure to ethanol, *Molecular and Cellular Biochemistry*, (2008), 308 (1-2), 111-116. <https://doi.org/10.1007/s11010-007-9618-z>
Cell Biology, 126/158, 2008, **IF 1,764**

3.4.6. Pavelkić V, Gopčević K, **Krstić D**, Ilić M. The influence of Al^{3+} ion on porcine pepsin activity in vitro. *Journal of Enzyme Inhibition and Medicinal Chemistry*, (2008), 23(6), 1002-1010. <https://doi.org/10.1080/14756360701841095>
Chemistry, Medicinal, 25/41, 2008, **IF 1,421**

3.4.7. **Krstić D**, Čolović M, Bavcon Kralj M, Trebše P, Krinulović K, Vasić V. The influence of malathion and its decomposition products on free and immobilized acetylcholinesterase, *Russian Journal of Physical Chemistry*, (2008), 82 (4), 663-668. <https://doi.org/10.1134/S0036024408040274>
Chemistry, Physical, 106/113, 2008, **IF 0,475**

3.4.8. **Krstić D**, Čolović M, Bavcon Kralj M, Franko M, Krinulović K, Trebše P, Vasić V. Inhibition of AChE by malathion and some structurally similar compounds, *Journal of Enzyme Inhibition and Medicinal Chemistry*, (2008), 23(4), 562-573. <https://doi.org/10.1080/14756360701632031>
Chemistry, Medicinal, 25/41, 2008, **IF 1,421**

3.4.9. Vasić D, Savić J, Bugarčić Ž, **Krstić D**, Tomić N, Čolović M, Petković M, Vasić V. Interaction of [PtCl₂(DMSO)₂] complex with L-cysteine, *Zeitschrift fur Naturforschung. Section C: Journal of Biosciences*, (2009), 64c, 103-108. <http://www.znaturforsch.com/ac/v64c/64c0103.pdf>
Biochemistry & Molecular Biology, 257/283, 2009, **IF 0,800**

3.4.10. Rašić-Marković A, Stanojlović O, Hrnčić D, **Krstić D**, Čolović M, Sušić V, Radosavljević T, Djurić D. The activity of erythrocyte and brain Na⁺/K⁺ and Mg²⁺-ATPases in rats subjected to acute homocysteine and homocysteine thiolactone administration, *Molecular and Cellular Biochemistry*, (2009), 327, 39-45. <https://doi.org/10.1007/s11010-009-0040-6>
Cell Biology, 122/162, 2009, **IF 1,896**

3.4.11. **Krstić D***, Čolović M, Bošnjaković-Pavlović N, Spasojević-de Bire A, Vasić V. Influence of Decavanadate on Rat Synaptic Plasma Membrane ATPases Activity, *General Physiology and Biophysics*, (2009), 28, 302-308. https://www.ncbi.nlm.nih.gov/pubmed/20037196?itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum&ordinalpos=3
Biochemistry & Molecular Biology, 262/283, 2009, **IF 0,741**

3.4.12. Čolović M, **Krstić D**, Krinulović K, Momić T, Savić J, Vujačić A, Vasić V. Na⁺/K⁺-ATPase-Activity and Inhibition, *Russian Journal of Physical Chemistry A*, (2009), 83(9), 1602-1608. <https://doi.org/10.1134/S0036024409090337>
Chemistry, Physical, 112/121, 2009, **IF 0,438**

3.4.13. Vasić V, Čolović M, **Krstić D**. Mechanism of Na⁺/K⁺-ATPase and Mg²⁺-ATPase inhibition by metal ions and complexes, *Hemijaska Industrija*, (2009), 63(5a), 499-509. DOI: 10.2298/HEMIND0905499V http://www.ache.org.rs/HI/2009/No5a/07_FH9_2009_5a.pdf
Engineering, Chemical, 118/127, 2009, **IF 0,117**

3.4.14. Hrnčić D, Rašić-Marković A, **Krstić D**, Macut Dj, Šušić V, Djurić D, Stanojlović O. Inhibition of the neuronal nitric oxide synthase potentiates homocysteine thiolactone-induced seizures in adult rats. *Medicinal Chemistry*, (2012), 8 (1), 59-64. <https://doi.org/10.2174/157340612799278577>
Chemistry, Medicinal, 48/59, 2012, **IF 1,373**

3.4.15. Mladenović D, **Krstić D**, Čolović M, Radosavljević T, Rašić-Marković A, Hrnčić D, Macut Dj, P Stanojlović O. Different sensitivity of various brain structures to thioacetamide-induced lipid peroxidation. *Medicinal Chemistry*, (2012), 8(1), 52-58. <https://doi.org/10.2174/157340612799278603>
Chemistry, Medicinal, 48/59, 2012, **IF 1,373**

3.4.16. Avramović N, Dragutinović V, **Krstić D**, Čolović M, Trbovic A, de Luka S, Milovanović I, Popović T. The effects of omega 3 fatty acid supplementation on brain tissue oxidative status in aged wistar rats. *Hippokratia*, (2012), 16(2), 241-245. <https://www.hippokratia.gr/2019/03/04/the-effects-of-omega-3-fatty-acid-supplementation-on-brain-tissue-oxidative-status-in-aged-wistar-rats/>
Medicine, General & Internal, 110/155, 2012, **IF 0,589**

3.4.17. Čolović M, **Krstić D**, Vasić V, Bondžić A, Ušćumlić G, Petrović S. Organophosphorus insecticides: toxic effects and bioanalytical tests for evaluating toxicity during degradation processes. *Hemijaska industrija*, 2013, 67(2), 217–230. <https://doi.org/10.2298/HEMIND120323060C>
Engineering, Chemical, 103/133, 2013, **IF 0,562**

Posle izbora u zvanje vanrednog profesora (6 radova)

3.4.18. Brkić P, Peković S, **Krstić D**, Jovanović T. Hyperbaric oxygenation as an adjuvant therapy for traumatic brain injury: a review of literature. *Periodicum Biologorum*, (2014), 116 (1), 29-36. <https://hrcak.srce.hr/125462>

3.4.19. Rašić-Marković A, Rankov-Petrović B, Hrnčić D, **Krstić D**, Čolović M, Macut Dj, Djurić D, Stanojlović O. The effect of subchronic supplementation with folic acid on homocysteine induced seizures. *Acta Physiologica Hungarica*, (2015), 102 (2), 151-162. <https://doi.org/10.1556/036.102.2015.2.6>
Physiology, 76/83, 2015, IF 0,814

3.4.20. Rašić-Marković A, Hrnčić D, **Krstić D**, Čolović M, Djurić E, Rankov-Petrović B, Šušić V, Stanojlović O, Djurić D. The effect of subchronic supplementation with folic acid and L-arginine on homocysteine-induced seizures. *Canadian Journal of Physiology and Pharmacology*, (2016), 94 (10), 1083-1089. <http://ezproxy.nb.rs:2070/eds/pdfviewer/pdfviewer?vid=2&sid=6b4ab8a4-f189-4a81-9efc-309b718461df%40pdc-v-sessmgr04>
Pharmacology & Pharmacy, 178/257, 2016, IF 1,822

3.4.21. Uzelac JJ, Stanić M, **Krstić D**, Čolović M, Djurić D. Effects of homocysteine and its related compounds on oxygen consumption of the rat heart tissue homogenate: the role of different gasotransmitters. *Molecular and Cellular Biochemistry*, (2018), 444 (1-2), 143-148. <https://ezproxy.nb.rs:2078/article/10.1007/s11010-017-3238-z>
Cell Biology, 123/193, 2018, IF 2,884

3.4.22. Kornjača D, Živković V, **Krstić D**, Čolović M, Đurić M, Stanković S, Mutavdžin S, Jakovljević V, Đurić D. The effects of acute hyperhomocysteinemia induced by DL-homocysteine or DL-homocysteine thiolactone on serum biochemical parameters, plasma antioxidant enzyme and cardiac acetylcholinesterase activities in the rat. *Archives of Biological Sciences*, (2018), 70 (2), 241-248. <https://doi.org/10.2298/ABS170731041K>
Biology, 79/85, 2018, IF 0,554

3.4.23. Stojanović M, Todorović D, Šćepanović Lj, Mitrović D, Borozan S, Dragutinović V, Labudović-Borović M, **Krstić D**, Čolović M, Djurić D. Subchronic methionine load induces oxidative stress and provokes biochemical and histological changes in the rat liver tissue. *Molecular and Cellular Biochemistry*, (2018), 448 (1-2), 43-50. <https://ezproxy.nb.rs:2078/article/10.1007/s11010-018-3311-2>
Cell Biology, 123/193, 2018, IF 2,884

4. Radovi u časopisima nacionalnog značaja (M50)

4.1. Rad u vrhunskom časopisu nacionalnog značaja (M52)

Pre izbora u zvanje vanrednog profesora

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5. Zbornici međunarodnih naučnih skupova

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- 5.3.37. Čolović M, Vasić V, Kortz U, **Krstić D**. Interaction of some polyoxotungstates with acetylcholinesterase. The Fourth International Conference on Radiation and Applications in Various Fields of Research (RAD 2016), Niš, Serbia, May 23-27, 2016, Book of Abstracts, p. 34.
- 5.3.38. Hrnčić D, Rašić-Marković A, Šutulović N, Grubač Ž, Čolović M, **Krstić D**, Šušić V, Đurić D, Stanojlović O. Methionine nutritional overload facilitates epileptogenesis: Possible role of modulation of rat brain Na^+/K^+ -ATPase and E-NTPDase activity. The 25th International C.I.A.N.S. Conference 2016 and the 5th Congress of the Slovak Neuropsychiatric Society SkMA, Bratislava, Slovakia, Sept. 21 – 23, 2016, Abstract book, p.23.
- 5.3.39. Djurić D, Čolović M, **Krstić D**, Obrenović R, Djurić M, Stevanović A, Stamenković A, Kostić S, Hadžibegović A. The effects of subchronic methionine overload on body weight, standard biochemical parameters, homocysteine level and on plasma oxidative stress following acute methionine administration in male *Wistar* rats. Joint meeting, The 8th International Symposium on Neurocardiology, The 7th International Symposium on Noninvasive Electrocardiology, NEUROCARD 2016, Belgrade, Serbia, Oct. 14-15, 2016. Book of Abstracts, p. 92.
- 5.3.40. Hrnčić D, Rašić-Marković A, Čolović M, **Krstić D**, Šutulović N, Grubač Ž, Šušić V, Đurić D, Stanojlović O. Hyperhomocysteinemia induced by methionine nutritional overload more promptly affects brain than heart cholinergic system without affects on food intake and body mass gain. 85th European Atherosclerosis Society (EAS) Congress, Prague, Czech Republic, April 23-26, 2017. Atherosclerosis 2017, Volume 263, p. e168.
- 5.3.41. Hrnčić D, Rašić-Marković A, Šutulović N, Grubač Ž, Vorkapić M, Ademović A, Čolović M, **Krstić D**, Rankov-Petrović B, Šušić V, Đurić D, Stanojlović O. Advanced-level analysis of spiking EEG activity potentiaded by high dietary methionine: contribution of purinergic signaling. Joint Meeting of the Federation of European Physiological Societies and the Austrian Physiological Society with Participation of the Czech, French, Italian, Slovak, Slovenian, Swiss and Turkish Physiological Societies, Vienna, Austria, Sept. 13–15, 2017. Acta Physiologica 2017, Volume 211, (suppl. S713), p. EYPS-06.
- 5.3.42. Dinčić M, Todorović J, **Krstić D**, Čolović M, Nešović Ostojić J, Kovačević S, Milovanović A. Effect of hypothyroidism on acetylcholinesterase activity of adult rat brain, 7th Congress of Serbian Neuroscience Society with international participation, Belgrade, Serbia, Oct. 25-27, 2017, Book of Abstracts, p. 120.
- 5.3.43. Dinčić M, Todorović J, **Krstić D**, Čolović M, Nešović Ostojić J, Kovačević S, Milovanović A. Combined effects of hypothyroidism and REM sleep deprivation on Na^+/K^+ -ATPase activity in rat brain, 7th Congress of Serbian Neuroscience Society with international participation, Belgrade, Serbia, Oct. 25-27, 2017, Book of Abstracts, p. 121.
- 5.3.44. Čolović M, Vasić V, **Krstić D**. *In vitro* toxicity evaluation of 12-tungstosilicic and 12-tungstophosphoric acid. Book of abstracts, 2nd World Congress on Pharmacology & Toxicology, Rome, Italy, 16-18.08.2018. p. 79.
- 5.3.45. Dinčić M, Sarić M, Čolović M, Todorović J, Ignjatović S, Radosavljević B, Mougharbel AS, Kortz U, **Krstić D**. Toxicity evaluation of two biologically active polyoxotungstates. Book of Abstracts, 8th International Congress of Pathophysiology, Bratislava, 2018, p. 243-244.
- 5.3.46. Zeković J, Zdravković M, Dinčić M, Čolović MB, Četković M, Kravić Stevović T, Mougharbel AS, Kortz U, **Krstić D**. Evaluation of $(\text{NH}_4)_{14}[\text{NaP}_5\text{W}_{30}\text{O}_{110}]\cdot 31 \text{ H}_2\text{O}$ incuded hepatotoxicity and nephrotoxicity. Abstracts 13th YES Meeting, Porto, Portugal, 2018, p. 38.
- 5.3.47. Jovanović A, Balint V, Dinčić M, Čolović MB, Mougharbel AS, Kortz U, **Krstić D**. Effects of polyoxotungstates on liver and kidney function. Abstracts 13th YES Meeting, Porto, Portugal, 2018, p. 47.

5.4. Saopštenje sa skupa nacionalnog značaja štampano u celini (M63)

Pre izbora u zvanje vanrednog profesora

5.4.1. Vujisić Lj, Vasić V, **Krstić D**, Jovanović D, Horvat A, Nikezić G. Brza analitička metoda za detekciju zagadjivača u vodi na osnovu reakcije hidrolize ATP u prisustvu ATPaze. *Zaštita voda* '97, Sombor, 3-6. jun 1997, p. 239-244.

5.4.2. Vujisić Lj, Vasić V, **Krstić D**, Jovanović D, Horvat A, Nikezić G, Kopečni M. Ispitivanje efekta simultanog izlaganja ATPaza smeša nekih metala prve prelazne serije u vodi. *Zaštita voda* '99, Soko Banja, 12-15 oktobar 1999, p. 171-176.

5.4.3. Vasić V, Krinulović K, **Krstić D**, Savić J, Čolović M. Biosenzor za detekciju organofosfata u proizvodima od voća i povrća, *Proceedings, IV međunarodna eko-konferencija*. Novi Sad, 20-23.septembar, 2006, p. 285-290.

5.4.4. Vasić V, Momić T, Čolović M, **Krstić D**. Modulation of ATPases activity by environmentally toxic compounds. *Knjiga izvoda, 5. simpozijum Hemija i zaštita životne sredine sa međunarodnim učešćem*, planina Tara, 27-30. maj 2008, p.32-33.

5.5. Saopštenje sa skupa nacionalnog značaja štampano u izvodu (M64)

Pre izbora u zvanje vanrednog profesora

5.5.1. Vasić V, Joksić G, Krinulović K, **Krstić D**. Humani limfociti kao model sistem za ispitivanje uticaja kardiovaskularnih lekova na aktivnost Na^+/K^+ -ATPaze, Treći kongres farmaceuta Jugoslavije sa međunarodnim učešćem, Beograd, 29. oktobar-2. novembar, 2002, *Arhiv za farmaciju* 2002, Vol. 4, p. 712.

5.5.2. **Krstić D**. Inhibicija animalnih i humanih ATPaza lekovima, *Stremljenja i novine u medicini*, Beograd, 2002. *Medicinska istraživanja* 2002, Vol. 36 (sveska 4), p. 65.

5.5.3. Rašić-Marković A, Hrnčić D, Djurić D, Šušić V, **Krstić D**, Čolović M, Stanojlović O. Značaj Na^+/K^+ -ATPaze u modulatornom uticaju etanola na homocisteinom izazvanu epilepsiju kod pacova, VII/XIII Kongres neurologa Srbije sa međunarodnim učešćem, IV Kongres društva za neuronauke Srbije sa međunarodnim učešćem, Kragujevac, 11-14. septembar, 2008, *Zbornik sažetaka*, p.373.

5.5.4. Mladenović D, Radosavljević T, Rašić - Marković A, Hrnčić D, **Krsić D**, Čolović M, Petrovic S, Maksić N, Đurić D, Stanojlović O. Lipidna peroksidacija i aktivnost katalaze u mozgu pacova u akutnoj insuficijenciji jetre izazvanoj tioacetamidom. Prvi Kongres Mitohondije i slobodni radikali u biomedicini – perspektive, Beograd, 24. septembar 2011. *Knjiga sažetaka*, p. 35.

Posle izbora u zvanje vanrednog profesora (4 saopštenja)

5.5.5. **Krstić D**, Čolović M, Avramović N, Vasić V. Inhibitori ATPaza: farmakologija i toksikologija. *Stremljenja i novine u medicini*, Beograd, 2013. *Medicinska istraživanja* 2013, Vol. 47 (sveska 3), p. 59.

5.5.6. Čolović M, Vasić V, **Krstić D**. Bioanalitičke metode za evaluaciju toksičnosti organofosfatnih insekticida i njihovih degradacionih proizvoda. *Stremljenja i novine u medicini*, Beograd, 2013. *Medicinska istraživanja*, 2013, Vol. 47 (sveska 3), p. 62.

5.5.7. Avramović N, Čolović M, Bošnjaković Pavlović N, Holclajtner Antunović I, Vasić V, **Krstić D**. Ispitivanje toksičnih efekata polioksometalata sa potencijalnim antitumorskim osobinama. *Stremljenja i novine u medicini*, Beograd, 2013. *Medicinska istraživanja*, 2013, Vol. 47 (sveska 3), p. 63.

5.5.8. Dinčić M, Todorović J, **Krstić D**, Čolović M, Nešović Ostojić J, Kovačević S, Milovanović A. Efekat deprivacije REM faze spavanja na aktivnost acetilholinesteraze i Na^+/K^+ -ATPaze sinaptozoma mozga pacova u hipotireoidizmu, Četvrti srpski kongres o štitastoj žlezdi, Institut za štitastu žlezdu i metabolizam "Zlatibor", Zlatibor, septembar, 2017. *Medicinski glasnik*, Vol. 22 (broj 66), p. 69.

6. Citiranost radova

Prema podacima iz baze Scopus radovi Danijele Krstić (Author ID: 57199836500) citirani su **1120** puta (autocitirani nisu uzeti u obzir) na dan 05. 11. 2019. godine.

7. Recenzije

Dr sci. Danijela Krstić je recenzirala radove u sledećim međunarodnim časopisima:

1. *Neurotoxicology*, 2008. (M22 IF₂₀₀₈=2,409)
2. *International Journal of Developmental Neuroscience*, 2010. (M23 IF₂₀₁₀=1,938)
3. *Life Sciences*, 2010. (M22 IF₂₀₁₀=2,451)
4. *The Open Parasitology Journal*, 2010. (nema IF)
5. *Medicinal Research Reviews*, 2013. (M21a IF₂₀₁₃=8,131)
6. *Journal of the Neurological Sciences*, 2014. (M22 IF₂₀₁₄=2,474)
7. *Arabian Journal of Chemistry*, 2015. (M21 IF₂₀₁₅=3,613)

8. Food Technology and Biotechnology, 2015. (M22 IF₂₀₁₅=1,179)
9. Acta Neurobiologiae Experimentalis, 2016. (M23 IF₂₀₁₆=1,207)
10. Scientific Reports, 2016. i 2017. (M21 IF₂₀₁₆=4,259)
11. Neuropsychiatric Disease and Treatment, 2016. (M22 IF₂₀₁₆=2,198)
12. Biomarkers in Medicine, 2018. (M22 IF₂₀₁₈ = 2,268)
13. Current pharmaceutical design, 2019. (M22 IF₂₀₁₈ = 2,412)

Kandidatkinja je recenzirala jednu aplikaciju za postdoktorske studije (application for postdoctoral fellowship, 2016. za The Research Foundation Flanders (FWO) i po jedan rad za:

The 6th International Conference on Biomedical Engineering and Biotechnology, 2017. i The 8th International Conference on Biomedical Engineering and Biotechnology, 2019.

F. OSTALE RELEVANTNE AKTIVNOSTI

Dr sci. Danijela Krstić je koautor dva izdanja udžbenika »Odabrana poglavlja iz hemije za studente Medicinskog fakulteta«, pet izdanja praktikuma »Praktikum iz hemije sa radnom sveskom i zbirkom zadataka za studente II godine Medicinskog fakulteta« i pet izdanja prevoda ovog praktikuma na engleski jezik (A practical guide to chemistry exercises with workbook and collection of numerical problems for 2nd year students of medicine). Učestvovala je u izradi banke zadataka za pripremu kolokvijuma iz hemije (u okviru zajedničkog predmeta Medicinska biohemija i hemija), i banke zadataka za pripremu prijemnih ispita iz Hemije za upis na Medicinski fakultet u periodu 2009. - 2015. i 2019. godine.

Učestvovala je (2011. i 2012.godine) u pripremnoj nastavi za upis stranih studenata na Medicinski fakultet u okviru projekta »Svet u Srbiji« i bila član Komisije za upis studenata u prvu godinu studija na Medicinskom fakultetu Univerziteta u Beogradu (2002. 2003. 2008. i 2009. godine). Školske 2014/15. godine učestvovala je u pripremi i realizaciji *online* nastave Bezbednost u radu u hemijskoj laboratoriji, na *Reticulumu*, portalu za *online* nastavu Medicinskog fakulteta u Beogradu.

Poslove sekretara Katedre obavljala je u periodu od 2002. do 2009. godine a poslove upravnika Instituta Hemija u medicini obavljala je od 2009. do 2015. godine.

IZBORNI USLOVI ZA IZBOR U NASTAVNIČKA ZVANJA

1. Stručno-profesionalni doprinos:

1.1 Predsednik ili član uređivačkog odbora naučnih časopisa ili zbornika radova u zemlji ili inostranstvu
Guest Editor specijalnog broja pod nazivom „Metal-based compounds in biomedicine: overview and update“ časopisa Current Medicinal Chemistry (M21) (izdavač: Benthamscience Publisher)

1.2 Recenzent u vodećim međunarodnim naučnim časopisima, ili recenzent međunarodnih ili nacionalnih projekata:

Dr sci. Danijela Krstić je recenzirala radove u sledećim međunarodnim časopisima:

1. Neurotoxicology, 2008. (M22 IF₂₀₀₈=2,409)
2. International Journal of Developmental Neuroscience, 2010. (M23 IF₂₀₁₀=1,938)
3. Life Sciences, 2010. (M22 IF₂₀₁₀=2,451)
4. The Open Parasitology Journal, 2010. (nema IF)
5. Medicinal Research Reviews, 2013. (M21a IF₂₀₁₃=8,131)
6. Journal of the Neurological Sciences, 2014. (M22 IF₂₀₁₄=2,474)
7. Arabian Journal of Chemistry, 2015. (M21 IF₂₀₁₅=3,613)
8. Food Technology and Biotechnology, 2015. (M22 IF₂₀₁₅=1,179)
9. Acta Neurobiologiae Experimentalis, 2016. (M23 IF₂₀₁₆=1,207)
10. Scientific Reports, 2016. i 2017. (M21 IF₂₀₁₆=4,259)
11. Neuropsychiatric Disease and Treatment, 2016. (M22 IF₂₀₁₆=2,198)
12. Biomarkers in Medicine, 2018. (M22 IF₂₀₁₈ = 2,268)
13. Current pharmaceutical design, 2019. (M22 IF₂₀₁₈ = 2,412)

Kandidatkinja je recenzirala jednu aplikaciju za postdoktorske studije (application for postdoctoral fellowship, 2016. za The Research Foundation Flanders (FWO).

1.4 Predsednik ili član komisija za izradu završnih radova na akademskim osnovnim, master ili doktorskim studijama:

Član komisije za ocenu i dobranu 8 završnih (diplomskih) radova i 2 doktorske disertacije.

1.5 Rukovodilac ili saradnik na domaćim ili međunarodnim naučnim projektima:

-Saradnik na projektima iz oblasti osnovnih istraživanja finansiranih od strane MPNTR Srbije, u periodu 2002-2005. (br.1991) , 2006-2010 (br. 142051). i od 2011. do sada (br. 172023 i br.175032).

-**Rukovodilac** (sa srpske strane) međunarodnog bilateralnog projekta: „Experimental and theoretical studies of some polyoxovanadates interaction with Na^+/K^+ -ATPase and Ca^{2+} -ATPase”, (br. 69-00-4/2012-09/04), u okviru bilateralne saradnje između Srbije i Francuske, 2011-2012.

-**Rukovodilac** (sa srpske strane) međunarodnog bilateralnog projekta: „Polyoxopalladates: ATPases inhibition studies and toxicity evaluation”, (br. 451-03-01038/2015-09/16), u okviru bilateralne saradnje između Srbije i Nemačke, 2016-2017.

-Saradnik međunarodnog bilateralnog projekta: Polyoxometalates as potential anticancer and anti-Alzheimer drugs: modulation of Na^+/K^+ -ATPase and acetylcholinesterase activity”, (br. 451-03-01039/2015-09/18, u okviru bilateralne saradnje između Srbije i Austrije, 2016-2017.

- Saradnik međunarodnog bilateralnog projekta: „Inhibitori acetilholinesteraze kao potencijalni terapeutici za Alchajmerovu bolest: prooksidativna i citogenotoksična svojstva (SafeAChE)“, (br. 337-00-205/2019-09/19), u okviru bilateralne saradnje između Srbije i Hrvatske, 2019-2021.

2. Doprinos akademskoj i široj zajednici:

2.1. Članstvo u stranim ili domaćim akademijama nauka, ili članstvo u stručnim ili naučnim asocijacijama u koje se član bira:

-**MC Member** y COST Action CM1203 Polyoxometalate Chemistry for Molecular Nanoscience (PoCheMoN), 2012-2016.

-**MC Member** y COST Action CA16113CliniMARK: ‘good biomarker practice’ to increase the number of clinically validated biomarkers 2017-2021.

2.5. Domaće i ili međunarodne nagrade i priznanja u razvoju obrazovanja i nauke:

Zlatna medalja za “Biosenzor za detekciju pesticida na bazi holinesteraze”, XXVI Tradicionalna izložba “Pronalazaštvo”, Beograd, 2006. Organizator: Savez pronalazača Beograda.

2.7. Sposobnost pisanja projektne dokumentacije i dobijanja domaćih i međunarodnih naučnih i stručnih projekta:

Opisano u IZBORNI USLOVI 1.5

3. Saradnja sa drugim visokoškolskim, naučnoistraživačkim ustanovama, odnosno ustanovama kulture ili umetnosti u zemlji i inostranstvu:

3.1 Postdoktorsko usavršavanje ili studijski boravci u inostranstvu:

-Školske 1998/99. Kurs primenjene biotehnologije: “**Agro-food training course**”; organizatori: Bologna University (Italy) and „Bay Zoltan” Institute for Biotechnology (Hungary).

-Laboratory “Structures Propriétés et Modélisation des Solides”, Ecole Centrale Paris, 12-19. 11. 2011.

-Department of Life Sciences & Chemistry, Jacobs University, Bremen, Nemačka, 22-28. 08. 2016.

-Faculty of Chemistry, University of Vienna, 03-09.12.2016

-Department of Life Sciences & Chemistry, Jacobs University, Bremen, Nemačka, 21-28. 07. 2017.

-STSM, Institut za medicinska istraživanja i medicinu rada, Zagreb, Hrvatska, 07-14. 04. 2019.

-Institut za medicinska istraživanja i medicinu rada, Zagreb, Hrvatska, 29.07 - 05. 08. 2019.

3.2. Rukovođenje ili učešće u međunarodnim naučnim ili stručnim projekatima ili studijama:

Opisano u IZBORNI USLOVI 1.5

3.5 Učešće u programima razmene nastavnika i studenata:

1. Mentor u IFMSA razmenskom program, 2016.

Student: Farcas Catalin-Daniel, Faculty of Medicine and Pharmacy, University of Oradea, Romania

2. Mentor u IFMSA razmenskom program, 2017.

Student: Anna Shirinskaya, Medicinski fakultet, Univerziteta za medicinu u Omsku, Rusija

Student: Sokratis Oikonomou, Democritus University of Thrace, Grčka

3. Mentor u IFMSA razmenskom program, 2018.

Student: Gizem Gurbuz, Faculty of Medicine, Gazi University, Turska

Student: Deniz Arici, Faculty of Medicine, Gazi University, Turska

4. Mentor u IFMSA razmenskom program, 2019.

Student: Mareen Kraft, Eberhard Karls Universität Tübingen, Nemačka

Student: Alexios Grammenidis, Democritus University of Thrace, Grčka

Sudent: Alejandro Rivas Guerrero, Medical School at Autonomous University of Zacatecas “Francisco García Salinas”, Meksiko

5. Priprema i realizacija programa posete (20- 24.5.2019.) Katedri za hemiju u medicini, Medicinskog fakulteta u okviru Programa ERASMUS- Staff Mobility for Training:

-Loizou Stella, PhD, Lecturer in Chemistry, University of Nicosia, Medical School, Cyprus

3.6 Predavanje po pozivu na univerzitetima u zemlji ili inostranstvu:

-Predavanje: „ATPases-activity and inhibition“ na Farmaceutskom fakultetu u Parizu, Francuska, održano 18. 11. 2011. godine.

-Predavanje: „ATPases and acetylcholinesterase-target enzymes for some pharmacologically active and toxic compounds“ na Jacobs Univerzitetu, Bremen, Nemačka, održano 25. 08. 2016. godine.

G. ZAKLJUČCI I PREPORUKE KOMISIJE

Dr sci. Danijela Krstić je u toku dosadašnjeg rada na Medicinskom fakultetu, ostvarila značajne rezultate u naučno-istraživačkom radu i u nastavi iz predmeta koje predaje na Medicinskom fakultetu. Danijela Krstić ima ukupno 47 (četrdeset sedam) radova objavljenih u časopisima sa JCR liste (od čega 3 rada iz kategorije M21a, 13 radova iz kategorije M21, 8 radova iz kategorije M22 i 23 rada iz kategorije M23 sa ukupnim IF = 91,007 a koji su prema podacima iz baze Scopus citirani više od hiljadu puta (bez autocitata).

Od izbora u zvanje vanrednog profesora publikovala je 17 (sedamnaest) publikacija u časopisima sa JCR liste (od čega 2 rada iz kategorije M21a, 9 radova iz kategorije M21 i 6 radova iz kategorije M23), poglavlje u monografiji međunarodnog značaja (M14), dva rada u nacionalnom časopisu (M53) i 40 saopštenja na međunarodnim i nacionalnim skupovima.

Rukovodila je (sa srpske strane) međunarodnim bilateralnim projektima: „Experimental and theoretical studies of some polyoxovanadates interaction with Na⁺/K⁺-ATPase and Ca²⁺-ATPase”, u okviru bilateralne saradnje između Srbije i Francuske, 2011-2012. i „Polyoxopalladates: ATPases inhibition studies and toxicity evaluation”, u okviru bilateralne saradnje između Srbije i Nemačke, 2016-2017.

Na osnovu uvida u priloženu dokumentaciju i procene dosadašnje naučne, stručne i pedagoške aktivnosti dr sci. Danijele Krstić, članovi komisije smatraju da kandidat ispunjava sve uslove propisane Zakonom o visokom obrazovanju, Statutom Medicinskog fakulteta i Pravilnikom Hemijskog fakulteta Univerziteta u Beogradu za izbor u zvanje redovnog profesora i sa zadovoljstvom predlažu Izbornom veću Medicinskog fakulteta u Beogradu da utvrdi predlog za izbor **dr sci. Danijele Krstić** u zvanje **redovnog profesora** za užu naučnu oblast **Hemija u medicini**.

Beograd, 06. 11. 2019.god.

ČLANOVI KOMISIJE:

1. Prof. dr Ivanka Karadžić, redovni profesor Medicinskog fakulteta u Beogradu

2. Prof. dr Vesna Vujić, redovni profesor Medicinskog fakulteta u Beogradu

3. Prof. dr Tibor Sabo, redovni profesor Hemijskog fakulteta u Beogradu
