

Crna Gora
UNIVERZITET CRNE GORE

28. 11 2022			
01/2	1414/5		Vrijednost

UNIVERZITET CRNE GORE
KOMISIJI ODBORA ZA DOKTORSKE STUDIJE

Upućujem komisiji Odbora za doktorske studije,

Predlog komisije za ocjenu podobnosti doktorske teze pod nazivom „Sinteza, fizičko-hemijska karakterizacija i procjena potencijalne biološke aktivnosti novosintetizovanih kompleksnih jedinjenja na bazi pirazola i amoksicilina“ kandidata mr Davida Kočovića u sljedećem sastavu:

1. Dr Miljan Bigović, vanredni profesor Prirodno-matematičkog fakulteta Univerziteta Crne Gore, predsjednik komisije;
2. Dr Milica Kosović-Perutović, docent Metalurško-tehnološkog fakulteta Univerziteta Crne Gore, član komisije;
3. Dr Željko Jaćimović, redovni profesor Metalurško-tehnološkog fakulteta Univerziteta Crne Gore, član komisije (mentor);

Prof. dr Željko Jaćimović, mentor

Ž. Jaćimović

Mr David Kočović, kandidat

D. Kočović

Podgorica, 22.11.2022. godine

David Kočović

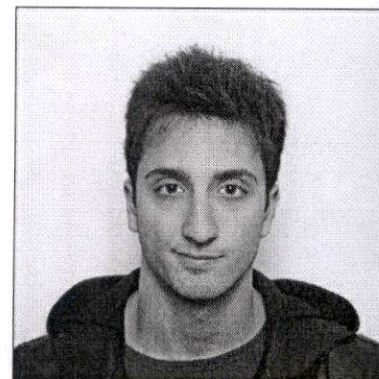
Master of Science in Food Technology

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Work experience:

- 2022 - (April-ongoing) – Head of Laboratory at “Institute for medicines and medical devices of Montenegro” – Podgorica, Montenegro (Techniques – XRPD and XRF)
- 2020 – 2022. (December-April) – Expert in instrumental methods and equipment qualification at “Institute for medicines and medical devices of Montenegro” – Podgorica, Montenegro (Techniques – XRPD and XRF)
- 2020 – 2020. (July-December) – Associate for development of laboratory system at “Institute for medicines and medical devices of Montenegro” – Podgorica, Montenegro (Techniques – XRPD and XRF)
- 2019 – 2020. (October-July) – Associate in laboratories for liquid and gas chromatography at „Centre of ecotoxicological research” – Podgorica, Montenegro (Techniques – LC-MS/MS, GC-MS, GC-ECD, GC-FID)
- 2019 – 2019. (January-October) – Associate in laboratory for liquid chromatography at „Institute for Public Health” – Podgorica, Montenegro (Technique - HPLC-UV/VIS)

Projects and additional memberships:

- 2022 - (April-ongoing) – Member of a Committee of Experts on Minimizing Public Health Risks Posed by Falsification of Medical Products and Similar Crimes (CD-P-PH/CMED) – EDQM (European Directorate for the Quality of Medicines and HealthCare)
- 2022 - (April-ongoing) – Chairperson of a Team for monitoring and realization of activities in the suppression of the sale of counterfeit medicines in organization of Ministry of Health – Podgorica, Montenegro
- 2022 - (April-ongoing) – Expert/researcher/ trainer for MEDI-THEFT project – by Italian Medicines Agency
- 2022- (March-ongoing) – Chairman for WHO's working group “Detection Technologies”
- 2022 – (January-November) – Member of a Scientific board of Institute for medicines and medical devices of Montenegro
- 2020 – (October-ongoing) – National Focal Point for Member State Mechanism on Substandard and Falsified (SF) Medical Products of World Health Organization
- 2019 – 2019. (January-December) Associate in Erasmus + project „BUGI - Western Balkans Urban Agriculture Initiative” (development of study materials, preparation of documentation for study programme accreditation, working od tender documentation and procedures for purchase of study greenhouse)

Education:

- 2021 – (November-ongoing) – University of Montenegro, Montenegro
PhD studies in Sustainable Development
- 2019 – 2020. University of Donja Gorica, Montenegro
Master course on Faculty for Food Technology – Master of Science in Food Technology – Technology of Food of Plant Origin
- 2018 – 2019. University of Donja Gorica, Montenegro
Specialisation course on Faculty for Food Technology – Specialization in Food Technology – Technology of Food of Plant Origin
- 2015 – 2018. University of Donja Gorica, Montenegro
Faculty for Food Technology, Food Safety and Ecology
- 2011-2015. High school gymnasium "Slobodan Škerovic", Podgorica, Montenegro

Trainings:

- 2022 – 2022. (March-June) – Guest scientist at German Federal Institute for Risk Assessment (Technique – LC-MS/MS qtof)
- 2021. (September) – Everything pharmaceutical scientists need to know about solid form characterization – Malvern Panalytical
- 2021. (September) – Successful elemental analysis: Using XRF in the pharmaceutical industry– Malvern Panalytical
- 2021. (July) – Training for XRPD "X-ray powder diffraction equipment and appropriate databases" – National Institute for Chemistry, Ljubljana – Slovenia
- 2021. (July) – Successful solid form analysis: methods and measurements – Malvern Panalytical
- 2021. (April) – Training for XRF "Epsilon advanced product training course" – Malvern Panalytical
- 2021. (February) – Training for XRPD "Empyrean advanced product training course" – Malvern Panalytical
- 2020. (November) Training "Introduction and Awareness" for standard ISO 17025 -SGS
- 2020. (October) Training for internal auditor for standard ISO 9001 - SGS
- 2020. (October) Training on X-ray diffraction analyses on University of Montenegro

Activities:

- 2022. Contributing author on "Formulation and characterization of immediate-release oral dosage forms with zolpidem tartrate fabricated by digital light processing (DLP) 3D printing technique"
- 2020. Master thesis "Comparison and problems in methods for quantitative determination of micotoxins in grain and grain products for liquid and gas chromatography"
- 2019. Specialization thesis „Utilization, function and detection of pesticides in agriculture", average grade 10/10
- 2018. Graduate thesis „Technological procedure of production for fermented beverage Kombucha", average grade 10/10
- 2018. Work and Travel USA programme participant

- 2018. Participant in project „Ask the minister”, organized by EU4ME
- 2018. Course attendant „Horizon 2020”
- 2017. Work and Travel USA programme participant
- 2017. Student work „Aquaculture in Montenegro”, Conference participation - “Research day” at UDG
- 2016. 3rd place award, international competition “Zero Hackathon”, Romun SIOI Rome-Italy
- 2016. English language, finished level C1.1
- 2016. Student project work “DNA microarray”, average grade 10/10
- 2015. 1st place award, competition “Ideas and character”, UDG Podgorica
- 2011. Best Student Paper Award
- 2010. Italian language, finished level B1

Languages:

- English: fluent (speaking and writing)
- Italian: intermediate (speaking and writing)
- Montenegrin: native language

Computer skills:

- Knowledge of MS Office package: High level of knowledge
- Knowledge of Adobe Photoshop: Medium level of knowledge



Број: 08-419
Датум, 25.03.2010. г.

Primijeno:	6.04.2010		
Opis jed.	Broj	Prilog	Vrijednost
Date:			
09	244		

Na osnovu člana 75 stav 2 Zakona o visokom obrazovanju (Sl.list RCG br. 60/03) i člana 18 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore, na sjednici održanoj 25.03.2010. godine, donio je

O D L U K U O IZBORU U ZVANJE

Dr **ŽELJKO JAČIMOVIĆ** bira se u akademsko zvanje redovni profesor Univerziteta Crne Gore za predmete: Neorganska hemija, Hemijska veza i struktura molekula (dio: Struktura molekula) na studijskom programu Hemijska tehnologija na osnovnim akademskim studijama, Opšta i neorganska hemija, na Samostalnom studijskom programu Farmacija na osnovnim akademskim studijama i Neorganska hemija II, na studijskom programu Hemijska tehnologija na postdiplomskim specijalističkim studijama na **Metalurško-tehnološkom fakultetu**.

REKTOR

Prof. dr Predrag Miranović
Prof. dr Predrag Miranović

BIOGRAFIJA ŽELJKA JAĆIMOVIĆA

Željko Jaćimović je rođen 1966. godine u Bijelom Polju, gdje je završio osnovnu školu i gimnaziju. Diplomirao je hemiju na Prirodno-matematičkom fakultetu Univerziteta u Sarajevu 1991. godine. Postdiplomske studije upisao je 1992. godine na Hemijskom fakultetu u Beogradu, a magistarski rad pod nazivom „Sinteza i kristalna struktura dihaloro-bis (3-amino-5-metilpirazol) cink(II) kompleksa“ odbranio je 1996. godine. Doktorsku disertaciju pod nazivom "Sinteze i strukture kompleksa Zn(II), Cd(II), Hg(II) i Cu(II) sa nekim di- i trisupstituisanim derivatima pirazola“ odbranio je u februaru 1999. godine na Institutu za hemiju Prirodno-matematičkog fakulteta u Novom Sadu.

Za asistenta na Katedri za opštu i neorgansku hemiju Metalurško-tehnološkog fakulteta (MTF) Univerziteta Crne Gore izabran je 1992. godine. Kao asistent izvodio je na MTF-u vježbe iz Opšte i neorganske hemije, Neorganske hemije, Kristalografije sa difraktometrijom i Neorganske hemije II, kao i iz Hemije na Prirodno-matematičkom fakultetu (PMF) i Hemije na Medicinskom fakultetu u Podgorici. Za docenta na Univerzitetu Crne Gore izabran je 1999. godine na predmetu Opšta i neorganska hemija, a za vanrednog profesora 2004. godine na predmetima na MTF-u Neorganska hemija, Hemijska veza i struktura molekula i Hemija čvrstog stanja. Od 2005. godine angažovan je za izvođenje nastave iz predmeta Opšta i neorganske hemija na Odsjeku za biologiju PMF, a od 2007. godine i za nastavu predmeta Opšta i neorganska hemija na studijskom programu Farmacija. U zvanje redovnog profesora na Univerzitetu Crne Gore izabran je u martu 2010. godine, na predmetima Neorganska hemija, Hemijska veza i struktura molekula na akademskim studijama i Neorganska hemija II na postdiplomskim specijalističkim studijama MTF-a, kao i Opšta i neorganska hemija na samostalnom studijskom programu Farmacija.

U periodu 2001-2004. godine, u dva mandata, obavljao je funkciju šefa Katedre za opštu i neorgansku hemiju na MTF-u, a od marta do oktobra 2015. obavljao je i funkciju vršioca dužnosti dekana MTF-a.

Prof. dr Željko Jaćimović dobio je značajna domaća i inostrana priznanja za ostvarene naučne rezultate. U knjizi *“Who is Who in Thermal Analysis and Calorimetry”*, renomiranog izdavača *Springer International Publishing* (hardcover ISBN 978-3-319-09485-4; eBook ISBN 978-3-319-09486-1), publikovanoj 2014. godine, prikazan je kratkom biografijom i bibliografijom kao jedan od 350 vodećih naučnika iz oblasti termičke analize i kalorimetrije. Ministarstvo nauke Crne Gore dodijelilo mu je 2018. godine Nagradu za najboljeg naučnika starijeg od 30 godina, a Univerzitet Crne Gore, 2020. godine, godišnju Nagradu za poseban doprinos u razvoju naučno-istraživačkog, stručnog i umjetničkog rada i međunarodnog pozicioniranja Univerziteta.

Željko Jaćimović ima 61 naučni rad publikovan u referentnim međunarodnim časopisima sa SCI liste, koji pripadaju oblasti sinteze i karakterizacije novih kompleksnih jedinjenja. Pored tih radova ima i tri rada publikovana u drugim međunarodnim časopisima i tri rada u domaćim časopisima. Ima i 15 radova štampanih u cjelosti u zbornicima radova međunarodnih naučnih konferencija. Dio rezultata svojih istraživanja prezentovao je i u vidu

71 saopštenja na inostranim i 19 na domaćim konferencijama, od kojih značajan broj na evropskim i svjetskim kristalografskim kongresima.

Oblast njegovih istraživanja je neorganska hemija, a naročito kompleksna (koordinaciona) jedinjenja. Iz te grupe jedinjenja posebno su interesantna ona na bazi pirazola i njegovih derivata sa prelaznim metalima, zato što ulaze u sastav mnogih lijekova (posebno antipiretika i antireumatika), herbicida i fungicida, a koriste se i kao ekstrageniti različitih metalnih jona. Kompleksna jedinjenja platine, paladijuma i rutenijuma sa tiosemikarbazonima i tiosemikarbazidima kao ligandima pokazuju antitumornu aktivnost, pa je sinteza, karakterizacija i biološka aktivnost ovih kompleksih jedinjenja takođe jedan od značajnih pravaca njegovih istraživanja. Sinteza novih kompleksnih jedinjenja i njihova fizičko-hemijska karakterizacija (elementarna analiza, IR spektroskopija, NMR, Raman spektroskopija, termičke analize, ¹H spektri, konduktometrijska i magnetna mjerenja, biološka aktivnost, X-ray rendgeno-strukturna analiza) čine osnovu Jaćimovićevih publikovanih i saopštenih naučnih radova.

Željko Jaćimović je član Evropske kristalografske asocijacije i Hemijskog društva Crne Gore. U periodu 2000-2006. obavljao je funkciju sekretara Hemijskog društva Crne Gore, a od 2006. je predsjednik tog društva, koje je te 2006. godine postalo punopravni član Federacije evropskih hemijskih društava. Najzaslužniji je što je Hemijsko društvo Crne Gore dobilo i organizovalo Prvi (2007. u Miločeru) i Drugi (2009. u Baru) simpozijum hemije i životne sredine zemalja Jugoistočne Evrope, na kojem su pored učesnika iz regiona učestvovali i hemičari iz Turske, Italije, Rusije i SAD, među kojima i predsjednik Američkog hemijskog društva – odjela za zaštitu životne sredine.

Bio je predsjedavajući naučne konferencije *14th European meeting on Environmental Chemistry* 2013. godine, čiji je domaćin bilo Hemijsko društvo Crne Gore. Bio je član naučnog odbora hemijskih konferencija 8 zemalja (Grčka, Rumunija, Bugarska, Makedonija, Albanija, Srbija, Crna Gora, Kipar) – konferencija koje organizuju hemijska društva Jugoistočne Evrope, kao i konferencija *1st, 2st, 3st and 4st Central and Eastern European Conference on Thermal Analysis and Calorimetry, CEEC-TAC1*, 2011, 2013, 2015 i 2017 godine. Bio je član naučnog odbora *1st i 6th Thermoanalytical Conference*, koje organizuje Springerov *Journal of Thermal Analysis and Calorimetry*, časopis sa SCI liste.

Od 2013. godine je član Uređivačkog odbora časopisa "Glasnik hemičara i tehnologa Bosne i Hercegovine".

Željko Jaćimović je, kao rukovodilac ili član tima, učestvovao u realizaciji više značajnih istraživačkih i razvojnih projekata.

Bio je istraživač na dva projekta finansirana od strane Ministarstva nauke bivše SRJ: "Preparation Materials with Antibacterial Catalytic Effect on Metal Basis" i "Electrochemical Disinfections of Drink Water".

Bio je rukovodilac tri istraživačka projekta finansirana od Ministarstva prosvjete i nauke Crne Gore: "Kompleksi serije pirazola i njegovih derivata", "Kompleksi serije prelaznih metala sa pirazolom i njegovim derivatima" i "Sinteza, fizičko-hemijska karakterizacija i biološka aktivnost kompleksa serije prelaznih metala sa pirazolom i njegovim derivatima".

Bio je rukovodilac i pet bilateralnih naučno-istraživačkih projekata Crne Gore:

1. Sa Grčkom, pod nazivom "Sinteza, struktura i biološka aktivnost novih metalnih pirazolonskih kompleksa - anti-oksidantne i biomimetičke aktivnosti kod metalnih kompleksa", (2006-2008);
2. Sa Hrvatskom - "*Structural characterization of novel complex material for broad applications*", (2012-2013);
3. Sa Slovenijom - "*The use of natural and synthetic zeolites for the removal of heavy-metals (or inorganic ions) from waste-waters*", (2012-2013);
4. Sa Austrijom – „*Synthesis, physico-chemical characterization and biological activity of new transition metal complexes with pyrazole based ligands and their potential application*“, (2013- 2016);
5. Sa Mađarskom, pod nazivom „*Synthesis, physico-chemical and biological characterization of new transition metal complexes with pyrazole derivatives and their potential application*“, (2016-2018).

Bio je i član istraživačkog tima bilateralnog projekta Crne Gore sa Kinom, pod nazivom „*Climate change: global challenge and national response (Chinese and Montenegro perspective) - Building business environment for European “new/green” investments and industries*“, (2014-2016).

Prof. Jaćimović je bio i jedan od rukovodilaca CEEPUS projekta CIII-SI-0905-1415, pod nazivom „*Training and Research in Environmental Chemistry and Toxicology*“, (2013-2015).

Bio je ključni istraživač na dva inovativna projekta:

- „Ispitivanje biološke efikasnosti novosintetisanih jedinjenja i biljnog ekstrakta prema najznačajnijim oboljenjima vinove loze u Crnoj Gori“, finansiranom od Ministarstva nauke 2018-2020,

- “*Testing of bio-efficacy of newly synthesized compounds and herbal extract according to the most important grapevine diseases in Montenegro (BIOEXTRA)*“, 2018-2020. godine.

Rukovodilac je tima Crne Gore na Eureka projektu (2020-2023) „*Development of test strips based on electrochemical (bio)sensors for determining the concentration of disease biomarkers for the purpose of early diagnostics and prevention*“, i član crnogorskog tima na Erasmus+ projektu (2019-2022) “*Harmonization and Innovation of the PhD Study Program for Plant Protection in Sustainable Agriculture (HarISA)*“.

Prof. Željko Jaćimović ima veoma dobru i redovnu naučnu saradnju sa više institucija međunarodnog renomea: Univerzitetom u Beču (sa Fakultetom za prirodne nauke - Odsjek za neorgansku hemiju i sa Institutom za kristalografiju i mineralogiju), Univerzitetom u Durhamu - Velika Britanija, Hemijskim fakultetom iz Beograda, Institutom za nuklearne nauke - Vinča, Prirodno-matematičkim fakultetom iz Novog Sada, Nacionalnim Institutom za hemiju iz Ljubljane, Institutom Ruđer Bošković iz Zagreba, Univerzitetom za tehnologiju i ekonomiju iz Budimpešte (departmanom za analitičku i neorgansku hemiju). O uspješnosti te saradnje svjedoči značajan broj zajedničkih radova publikovanih u referentnim naučnim časopisima.

Kako u Crnoj Gori nema hemijskog fakulteta, prof. Željko Jaćimović se više puta usavršavao u gore navedenim institucijama i radio na zajedničkim projektima sa kolegama iz tih institucija. U tom pogledu posebno treba istaći Univerzitet u Beču (mart-jul 2001, septembar–oktobar 2001, jun 2005, 2010-2015).

Dobitnik je granta Američkog hemijskog društva i član internacionalne delegacije - rad po pozivu koji je saopštio u Čikagu 2007. godine u okviru *Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy*.

Preko Univerziteta Crne Gore bio je aktivni učesnik TEMPUS projekta "*Improvement of Teaching Quality in South East Europe*", u okviru kojeg je imao izlaganje na zajedničkom skupu u Sarajevu 2003. godine, i projekta "*Creation of Montenegro Team of Bologna Promoters*", u okviru kojeg je imao dvije posjete Univerzitetu *La Sapienza* u Rimu.

Posjeduje aktivno znanje engleskog jezika (usavršavanje u Kembridžu mart 2000. godine i Notingemu januar-februar 2001) i pasivno znanje italijanskog jezika.

Profesor Jaćimović održao je plenarno predavanje (predavanje po pozivu) na 14-tom Kongresu hemicara i tehnologa Bosne i Hercegovine (prvom nakon 1988. godine) pod nazivom "*Complexes of transition metals with pyrazole derived ligands: synthesis, physico-chemical characterization and potential application*", koji je održan u oktobru 2014. godine.

Željko Jaćimović je dao izuzetan doprinos reformi douniverzitetskog obrazovanja u Crnoj Gori. Bio je predsjednik Komisije za promjenu nastavnih planova i programa u osnovnoj školi (2003-2005), član Nacionalnog kurikularnog savjeta i koordinator za oblast prirodnih nauka u tom savjetu (2002-2005), član Nadzornog odbora za reformu obrazovanja pri Ministarstvu prosvjete i nauke (2006-2009) i član državnog tima za izradu Nacionalnog okvira kvalifikacija. Od 2007. do 2010. bio je predsjednik Komisije Zavoda za školstvo za akreditaciju programa stručnog usavršavanja nastavnika douniverzitetskog nivoa. Autor je strategije za uspostavljanje i razvoj nove institucije u našem obrazovnom sistemu – Ispitnog centra Crne Gore, institucije zadužene za eksternu provjeru znanja, vještina i kompetencija učenika i za sva međunarodna testiranja douniverzitetskog nivoa. Prvi je direktor tog centra i na toj funkciji je od 2006. do 2015. Bio je član (2007-2015) Glavnog odbora za međunarodno testiranje učenika PISA i Naučnog odbora *Agency for Cooperation in Secondary Education PACE*. Učestvovao je kao predavač na brojnim seminarima vezanim za metodologiju i izradu novih programa zasnovanih na nastavno-ciljnom kurikulumu. Bio je predavač na konferenciji *ERI SEE (Education Reform Initiative of South Eastern Europe)* iz oblasti ocjenjivanja, Bar 2007. Ekspert je *European Training Fondation* (sa sjedištem u Torinu) za oblast ključnih kompetencija i ocjenjivanja. Jedan je od autora publikacije te fondacije "*Key Competences for Lifelong Learning-development in the Montenegrin Education System, Project number WP 06-53-01*", (2007). Recenzent je 10 i urednik 4 udžbenika za osnovnu školu i gimnaziju. Koautor je zbirke zadataka iz hemije za drugi i treći razred gimnazije. Bio je član žirija za ocjenu projekata na prvom (2006) i drugom (2008) regionalnom takmičenju mladih talenata iz oblasti prirodnih nauka u Bugarskoj, finansiranog od strane UNESKO.

Prof. Jaćimović je bio tim lider na 48, 49. i 50. Međunarodnoj hemijskoj olimpijadi (Azerbejdžan, Tajland, Češka i Slovačka), na kojoj učestvuju pobjednici državnih takmičenja iz hemije (u prosjeku 200 najboljih učenika iz 50 država svijeta).

Za izvanredan doprinos razvoju obrazovanja dodijeljena mu je 2009. godine državna nagrada "Oktoih", najveća nagrada Crne Gore za oblast obrazovanja.

Prof. Jaćimović je učestvovao i u reformi Univerziteta Crne Gore, u periodu 2014-2017, kao jedan od četiri koordinatora tima za reformu. Dio dobijenih podataka i analiza sumiran je u publikaciji Univerziteta Crne Gore i *European University Association* „Analiza stanja i strateška opredjeljenja za reorganizaciju i integraciju Univerziteta Crne Gore“, iz aprila 2015.

U periodu 2015-2017. bio je član Naučnog odbora Univerziteta Crne Gore, a od avgusta 2016. do jula 2017. i član Upravnog odbora Univerziteta, kao predstavnik Vlade Crne Gore.

Bio je i član pregovaračkog tima za pridruživanje Crne Gore Evropskoj Uniji, za poglavlje 26, koje se odnosi na obrazovanje i kulturu.

Inostrani je ekspert za reakreditaciju doktorskih studija Hemije na MTF Univerziteta u Beogradu (2020. godina) i doktorskih studija Hemije na PMF Univerziteta u Nišu (2021).

Prof. dr Željko Jaćimović bio je član Odbora za obrazovanje CANU, a član je Odbora za hemijske i biološke nauke pri Odjeljenju prirodnih nauka. Bio je član užeg tima potprojekta Obrazovanje, u okviru projekta CANU "Crna Gora u XXI stoljeću", i autor je dva rada u Zborniku radova tog potprojekta.

Prof. dr Željko Jaćimović nedavno se okušao i u oblasti patenata. Ima prihvaćen nacionalni patent Crne Gore P-2019-204 "*Pyrazole derivative and it's Co complex as a fungicide for the control of Phomopsis viticola sacc (BioextraPz)*", a Svjetskoj patentnoj organizaciji prijavio je 2021. godine patent "*Method for preparation of extract from fraxinus ornus and its use*", i ima dobre indicije da će patent biti uskoro prihvaćen.

PROF. DR ŽELJKO JAĆIMOVIĆ - BIBLIOGRAFIJA

A. Radovi publikovani u referentnim međunarodnim časopisima – SCI lista:

1. Ž. K. Jaćimović, B. V. Prelesnik, G. A. Bogdanović, E. Z. Ivegeš, V. M. Leovac: "Crystal structure of dichloro-bis(3(5)-amino-5(3)-methylpyrazole)zinc(II), $ZnCl_2N_6C_8H_{14}$ ", *Z. Kristallogr.*, **213** (1998) 35.
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71. M. Bigović, S Pantović, M.Roganović, M. Kosović Perutović, Ž.Jaćimović “Comparasion of Heavy Metal Content in Peloids from Igalo and Sutomore (Montenegro) and Assessment of the Environmental State “ 21st European Meeting on Environmental Chemistry, EMEC 21, Novi Sad, Serbia, November 30- December 3, Book of abstract (2021) 127
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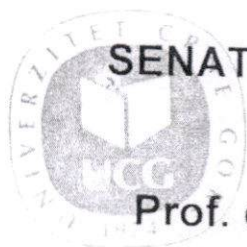
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Datum / Date: 09. 11. 2021

Na osnovu člana 72 stav 2 Zakona o visokom obrazovanju („Službeni list Crne Gore“ br 44/14, 47/15, 40/16, 42/17, 71/17, 55/18, 3/19, 17/19, 47/19, 72/19 i 74/20 i 104/21) i člana 32 stav 1 tačka 9 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore na sjednici održanoj 09.11.2021. godine, donio je

O D L U K U O IZBORU U ZVANJE

Dr MILJAN BIGOVIĆ bira se u akademsko zvanje **vanredni profesor Univerziteta Crne Gore** iz oblasti **Organska hemija i biohemija** na **Prirodno-matematičkom fakultetu Univerziteta Crne Gore**, na period od pet godina.

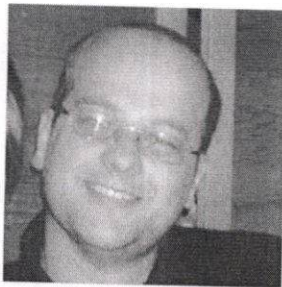


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Europass Radna biografija



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Nivo prema nacionalnoj ili međunarodnoj klasifikaciji

Lične vještine i kompetencije

Maternji jezik(ci) **Srpski**
Drugi jezik(ci) **Engleski jezik (1)
Ruski jezik (2)**

Samoprocjena Evropski nivo (*)	Razumijevanje				Govor				Pisanje	
	Slušanje		Čitanje		Govorna interakcija		Govorna produkcija			
Jezik1	C2	Iskusni korisnik	C2	Iskusni korisnik	C2	Iskusni korisnik	C2	Iskusni korisnik	C2	Iskusni korisnik
Jezik2	B1	Samostalni korisnik	B1	Samostalni korisnik	A2	Temeljni korisnik	A1	Temeljni korisnik	A2	Temeljni korisnik

(*) *Zajednički evropski referentni okvir za jezike*

Društvene vještine i kompetencije	Vještine koje posjedujete Komunikativan, timski orijentisan, društven
Organizacione vještine i kompetencije	Vještine koje posjedujete Sposobnost rada kako pojedinačnog tako i timskog, posjedovanje organizacionih sposobnosti u smislu organizacije rada, raspodjele zadataka i tumačenja rezultata rada.
Računarske vještine i kompetencije	Programi i programski jezici kojima vladate MS Office Hemijski programski paketi: Chem Draw and Chem Scatch
Vozačka dozvola	Kategorija koju posjedujete C-kategorija
Dodaci	Dokumenti koje dostavljate Publikacije:

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V. Kastratović, Ž. Jaćimović, D. Đurović, **M. Bigović**, S. Krivokapić, (2015), *Lemna minor* L. As bioindicator of heavy metal pollution in Skadar Lake, Montenegro, *Kragujevac Journal of Science* 37, 123-134. ISSN 1450-9636

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- S. Pantovic, **M. Bigovic**, M. Roganovic, N. Lalatovic, The impact of the COVID-19 pandemic on the implementation of project activities of the teams of the Faculty of Medicine and the Faculty of Natural sciences and Mathematics of the University of Montenegro within Center of excellence for biomedical research (CEBIMER), 3rd International Scientific and Practical Internet Conference, 11-12. August, Dnipro, Ukraine, 2021, Abstract Book p. 32.
- I. Cvijetić, **M. Bigović**, P. Ristivojević, M. Vitorović-Todorović, M. Zloh, D. Milojković-Opsenica, DFT study of the radical scavenging activity of isoxanthohumol, humulones (α -acids) and iso- α -acids from beer, *Structural Chemistry*, 32(5), 2051-2059, 2021.
- D. Milošević, **M. Bigović**, D. Mrdak, I. Milašević, M. Piria, Otolith morphology and microchemistry fingerprints of European eel, *Anguilla anguilla* (Linnaeus, 1758) stocks from the Adriatic Basin in Croatia and Montenegro, *Science of the Total Environment*, 786 147478, 1-9, 2021.
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- S. Pantovic, **M. Bigovic**, M. Roganovic, M. Zdravec, M. Kaludjerovic, Synthesis and testng of biological activities of Schiff bases – an example od successful cooperation between two faculties, 1st Intetnational Scinetific and Practical Internet Conference, Dnipro, Ukraine, 7-8 April 2022., Book of abstract pp 138.
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- Miljan Bigović**, Damnjan Nuculović, Marija Kaluderović, Jovana Jovanović, Nevena Prlainović, Šifove baze i molekulski doking, *Hemijski pregled*, 2022, 63 (2), 34-41.

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Ostale aktivnosti i interesovanja:

- Član Srpskog hemijskog društva i Društva hemičara Crne Gore;
 - Učešće u realizaciji 1., 2. i 3. Festivala nauke Republike Srbije (2008-2011);
 - Član Organizacionog odbora 14th European Conference of Chemistry of the Environment (European Meeting on Environmental Chemistry, EMEC), 4-7. Decembar 2013., Budva;
 - Autor i ocjenjivač takmičarskih testova iz hemije u organizaciji Ispitnog centra Crne Gore;
 - Autor i ocjenjivač takmičarskih zadataka i koordinator hemijskog kolegijuma Olimpijade znanja u organizaciji Prirodno-matematičkog fakulteta Crne Gore;
 - Član fondacije za promovisanje nauke „Prona“ od 2014. godine – angažovan kao mentor radova iz oblasti hemije na Zimskoj školi nauke, kao predavač i organizator praktikumata iz hemije na Ljetnjoj školi nauke;
 - Koordinator za hemiju za takmičenje „Olimpijada znanja“ u organizaciji Prirodno-matematičkog fakulteta Univerziteta Crne Gore;
 - Mentor sam i vođa crnogorskog tima na 51., 52. i 53. Međunarodnim hemijskim olimpijadama (održanim 2019, 2020 i aktuelnoj 2021. godini). Od 2014. do danas sam dio tima koji obavlja pripreme učenika za međunarodne hemijske olimpijade;
 - Učesnik na većem broju bilateralnih projekata između Crne Gore sa jedne i Srbije, Hrvatske, Slovenije i Mađarske sa druge strane.
 - Istraživanje zagađenja crnogorskog primorja i Skadarskog jezera sa organokalajnim jedinjenjima i toksičnim metalima (Crna Gora-Hrvatska, 2014-2016);
 - Uticaj teških metala na promjenu metabolizma ljekovitog bilja (Crna Gora-Srbija, 2016-2018);
 - Sinteza, karakterizacija i biološki aspekti novih ditiokarbamatnih kompleksa nekih prelaznih metala (Crna Gora-Srbija, 2016-2018);
 - Sinteza, fizičko-hemijska i strukturna istraživanja novih, potencijalno biološki aktivnih Šifovih baza-derivata ditiokarbamata (Crna Gora-Hrvatska, 2016-2018);
 - Sinteza, fizičko-hemijska karakterizacija i potencijalna biološka karakterizacija-aktivnost novih kompleksnih jedinjenja prelaznih metala sa pirazolom i njegovim derivatima (Crna Gora-Mađarska, 2016-2018);
 - Modeliranje grafovima u matematičkoj hemiji (Crna Gora-Slovenija, 2018-2020).
- Rukovodilac je bilateralnog projekta sa Srbijom pod nazivom „Sinteza Šifovih baza i ispitivanje njihove antimikrobne i antioksidativne sposobnosti, za period 2019-2021.

Član je projekta „Balneološki efekti peloida, mineralne vode, ljekovitog i aromatičnog bilja na inflamatorni odgovor kod reumatoidnih i kardiovaskularnih bolesti (period 2018-2020).

Član je Centra Izvrsnosti Centre of Excellence for Biomedical Researches CEBIMER, kao rukovodilac istraživanja u oblasti hemije, i član naučnog odbora Centra.

Tokom 2017. i 2018. godine, u okviru ERASMUS-projekta, boravio sam na Departmanu za Bioorgansku hemiju Farmaceutskog instituta Univerziteta Saarland u Saarbruckenu, Njemačka;

Tokom 2015., 2016. i 2017. boravio sam na Institutu „Ruđer Bošković“ u cilju naučne saradnje u sklopu bilateralnih projekata;

Recenzent „Priručnika za laboratorijsku dijagnostiku“, autora Snežane Pantović i Ivana Dožića, u izdanju Medicinskog fakulteta Univerziteta Crne Gore, Podgorica, 2017.

Autor poglavlja u udžbeniku „Osnovi biohemije“ za studente visoke medicinske škole, urednika Snežane Pantović, Medicinskog fakulteta Univerziteta Crne Gore, Podgorica, 2018.

Koautor udžbenika „Hemija za četvrti razred gimnazije“ u izdanju Zavoda za udžbenike i nastavna sredstva, Podgorica, 2020. godine.

Recenzent udžbenika „Hemija 3“ za treći razred gimnazije“ autora Svetlane Varagić i Mirjane Segedinac, Zavod za udžbenike i nastavna sredstva, Podgorica, 2020.

Recenzent „Zbirke zadataka za četvrti razred gimnazije“ autora Stanojke Vučurović, Željka Jaćimovića i Vlatka Kastratovića, u izdanju Zavoda za udžbenike i nastavna sredstva, Podgorica, 2020. godine.

Recenzent „Zbirke zadataka za treći razred gimnazije“ autora Stanojke Vučurović, Željka Jaćimovića i Vlatka Kastratovića, u izdanju Zavoda za udžbenike i nastavna sredstva, Podgorica, 2020. godine.

Recenzent sam u većem broju časopisa nacionalnog i međunarodnog značaja koji se bave tematikom iz oblasti organske hemije i hemije životne sredine.

Na 56. Savetovanju Srpskog hemijskog društva, bio sam član žirija za dodjelu IUPAC-ove nagrade za najbolje postersko saopštenje;

Dobitnik granta za učešće u „Školi proteomike“, koja se održana u februaru 2020. godine na Hemijskom fakultetu Univerziteta u Beogradu, a koja je organizovana u okviru projekta FoodEnTwin.

Mentor sam i komentor studentima osnovnih, specijalističkih i magistarskih studija, a član sam većeg broja komisija za odbrane završnih, specijalističkih i master radova na Prirodno-matematičkom fakultetu i drugim organizacionim jedinicama UCG.

- Član Uredničke komisije recenzenata (Editorial key reviewers committee) časopisa Journal of Achievements in Materials and Manufacturing Engineering



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Broj / Ref 03-4940

Datum / Date 16.11.20

Crna Gora
UNIVERZITET CRNE GORE
METALURŠKO-TEHNOLOŠKI FAKULTET

Priljezo	23. 11. 2020		
Org. jed.	Broj	Prilog	Vrijednost
-	1921		

Na osnovu člana 72 stav 2 Zakona o visokom obrazovanju („Službeni list Crne Gore“ br 44/14, 47/15, 40/16, 42/17, 71/17, 55/18, 3/19, 17/19, 47/19, 72/19 i 74/20) i člana 32 stav 1 tačka 9 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore na sjednici održanoj 16.11.2020. godine, donio je

ODLUKU O IZBORU U ZVANJE

Dr Milica Kosović Perutović bira se u akademsko zvanje docent Univerziteta Crne Gore za **oblasti Opšta i neorganska hemija i Zagađivači u životnoj sredini**, na Metalurško-tehnološkom fakultetu Univerziteta Crne Gore, na period od pet godina.




**SENAT UNIVERZITETA CRNE GORE
PREDSJEDNIK**

Prof. dr Danilo Nikolić, rektor

PERSONAL INFORMATION

Milica Kosović Perutović

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 mkosovic@ucg.ac.me

 http://www.nastava.ucg.ac.me/ucg/index.php/radnik/view?radnik_id=155030

Gender | Female | Date of birth 16/07/1983 | Country Montenegro

WORK EXPERIENCE

16.11.2020-

Docent

Faculty of Metallurgy and Technology, University of Montenegro

Teaching in the following subjects:

- General and inorganic chemistry (Faculty of Science, study program Biology)
- Ecotoxicology (Faculty of Metallurgy and Technology in Podgorica, study program Environmental Protection)
- Medical biochemistry and chemistry (Faculty of Medicine, Podgorica, part of the course)
- Chemistry (Faculty of Medicine, study program Dentistry)
- Chemistry of natural organic compounds (Faculty of Metallurgy and Technology, study program Chemical Technology, part of the course)
- Coordination compounds-selected chapters (Faculty of Metallurgy and Technology in Podgorica)
- Ecotoxicology (Biotechnical Faculty Podgorica, Food Safety)

01.09.2011 – 16.11.2020

Teaching assistant

Faculty of Metallurgy and Technology, University of Montenegro

Since the beginning of his engagement at the Faculty of Metallurgy and Technology, she has been performing exercises on the following subjects:

- General Chemistry (study programs Chemical Technology and Metallurgy and Materials),
- Inorganic Chemistry (study programs Chemical Technology and Metallurgy and Materials),
- Chemical bond and structure of molecules (study program Chemical Technology),
- Bioinorganic chemistry (study program Chemical Technology).

In the study program Environmental Protection performs exercises in the subject:

- General chemistry,
- Inorganic chemistry,
- Ecotoxicology,
- Food contaminants.

Engaged from the very beginning of her work at the faculty on performing exercises in the subject:

- General and inorganic chemistry at the Faculty of Science and Mathematics in Podgorica (study program Biology),

- General and inorganic chemistry at the Faculty of Medicine (study program Pharmacy),
- Chemistry (Biotechnical Faculty, study programs Plant Production and Animal Husbandry, part of exercises)

At the Faculty of Philosophy (study program Teacher Education) she performed exercises on the subject

- Chemistry.

Since September 2014. at the Faculty of Medicine in Podgorica (study program Medicine) performed part of the exercises on the subject

- Medical biochemistry and chemistry.

Since the 2018/19 academic year, she has been engaged to teach the following subjects under mentorship:

- Ecotoxicology (Faculty of Metallurgy and Technology in Podgorica, study program Environmental Protection, part of the course),
- General and inorganic chemistry (Faculty of Science, study program Biology)
- Chemistry (Faculty of Medicine, study program Dentistry),
- Medical biochemistry and chemistry (part: General and inorganic chemistry, Faculty of Medicine, study program Medicine).
- Chemistry of natural organic compounds (Faculty of Metallurgy and Technology, study program Chemical Technology, part of the course)

01. 10. 2010. -01. 06. 2011.

Chemistry teacher

High school " Stojan Cerović " , Nikšić

01. 01. 2011. -30. 05. 2011.

Chemistry teacher

Elementary school " Ratko Žarić " , Nikšić

EDUCATION AND TRAINING

27.12.2016

PhD, Doctor of science - chemistry

Faculty of Natural and Mathematical sciences, Kragujevac, Serbia

- Department: Chemistry

Name of the thesis: Synthesis, characterization and clarify the mechanism of substitution reactions of transition metal complexes of some ions

2009.

Chemist for research and development

Faculty of Natural and Mathematical sciences, Kragujevac, Serbia

2002.

High school diploma

High school " Stojan Cerović " , Nikšić

PERSONAL SKILLS

Native language Montenegrin

Other language

Engleski jezik

Ruski jezik

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B2	B2	B2
A2	A2	A2	A2	A1
Stages: A1 / 2: Beginner - B1 / 2: Independent user - C1 / 2 Experienced user A common European reference framework for languages				

Communication skills

- Excellent communication skills gained during many years of work with associates and students (teaching)

Organizational / managerial skills

- Since 2012. participates in compiling and reviewing tests of the state competition in Chemistry for primary and secondary school students organized by the Examination Center of Montenegro.
- As a member of the team (first as an observer and then as a mentor) participated in the International Chemistry Olympiad (International Chemistry Olympiad, IChO2012 Washington, D.C, IChO2013 Moscow, Russia, IChO2014 Hanoi, Vietnam, IChO2015 Azerbaijan, Baku,). Since 2015, engaged as part of the team in the preparation of competitors for the International Chemistry Olympiad

IT skills

- Everyday active use of the Microsoft Office™ program package, Chemdraw and many other programs.

Driving licence

- B

ADDITIONAL INFORMATION

Projects

Associate on national scientific projects:

1. "Synthesis, physico-chemical and biological characterization of new complex compounds based on pyrazole and its derivatives, biological activity and potential application in pharmacy, agriculture and medicine", National Scientific Research Project (2012-2015).
2. "Synthesis of new dithiocarbamate compounds and their antimicrobial and toxic properties testing", National Scientific Research Project (2012-2014).
3. Innovation project: „Study on biological efficacy of newly synthesized compounds and plant extract to the most important diseases of grapevine in Montenegro- BIOEXTRA" supported by Ministry of Science of Montenegro (2018-2020)
4. Center of Excellence for Biomedical Research - CEBIMER, Head: Dr. Vjeroslava Slavić, Head: Institute of Physical Medicine, Rehabilitation and Rheumatology "Dr. Simo Milošević" Igalo

Associate in bilateral scientific - technological cooperation:

1. "Synthesis, physico-chemical and biological characterization of new transition metal complexes with pyrazole derivatives and their potential application" Institut für Mineralogie und Kristallographie, Fakultät für Geowissenschaften, Geographie und Astronomie, Univ. Wien, (2012-2014)
2. "Use of natural and synthetic zeolites for the removal of heavy metals from wastewaters and drinking water", Faculty of Metallurgy and Technology, University of Montenegro and Chemistry Institute of Ljubljana, Hajdrihova 19, 1000 Ljubljana (2012-2013)
3. "Fungicidal activity of new complexes of dithiocarbamate ligands with transition metals", Bilateral project funded by MN CG and MZS HR (Z. Leka, A. Višnjevac) (2013-2014)
4. "Synthesis, physico-chemical and structural research of new potentially biologically active Schiff dithiocarbamate bases". Faculty of Metallurgy and Technology, University of Montenegro and Ruđer Bošković Institute, Zagreb, Croatia (2017-2018)
5. "Synthesis, physico-chemical characterization of new complex compounds of transition metals with pyrazole derivatives and their potential application Faculty of Metallurgy and Technology, University of Montenegro and Faculty of Natural and Mathematical sciences, University of Novi Sad (2017-2018)
6. "The synthesis, characterization and biological aspects of new dithiocarbamate complexes of certain transition metals", Faculty of Metallurgy and Technology, University of Montenegro and Faculty of Natural and Mathematical sciences, University of Kragujevac (2017-2018)

Associate in international scientific projects:

1. "Development of test strips based on electrochemical (bio)sensors for determining the concentration of disease biomarker for the purpose of early diagnostics and prevention", Eureka project (2020-2023)

Innovative activity

National patent

1. (11)03496,(51)A01N 3/00, (21)P-2019-204, (54)Pyrazole derivative and its cobalt complexes for the control of fungi *Phomopsis viticola*, SACC, Bioextra, Pz, Crnogorski glasnik intelektualne svojine, datum objavljivanja 20.01.2020, ISSN 1800-8003

Conferences and invited lectures

Oral presentations at international scientific conferences:

1. **M. Kosović**, A. Višnjevac, D. Vojta, M. Đaković, Z. Leka; "Cobalt complexes with biologically active dithiocarbamate derivative", 22nd Croatian Slovenian Crystallographic Meeting, Biograd, Croatia, 2013, Book of abstracts, page 13

Poster presentations at international scientific conferences:
Papers published in full

1. S.R. Trifunović, D. Bulatović, M. Kosović, Z. Leka: Complex of iron(II) with potassium 3-dithiocarboxy-3-aza-5-aminopentanoate dihydrate, PHYSICAL CHEMISTRY 2012, 11th International Conference on Fundamental and Applied Aspects of Physical Chemistry, 24-28 Sept. 2012. Belgrade, Serbia Proceedings, Volumell, pp 689-691, ISBN 978-86-82475-28-6
2. Ž. Jaćimović, V. Leovac, N. Latinović, M. Kosović, I. Đerđ, A. Radović: The influence of newly synthesised Cu(II) complexes based on pyrazole derivatives on the inhibition of *Phomopsis viticola* Sacc. (Sacc.) under laboratory conditions, Second International Symposium on Corrosion and protection of Materials and Environment, Bar, Montenegro, 17-20 Oct, 2012, Book of proceedings Bar, 2012, page 319-326.
3. I. Bošković, M. Kosović, Ž. Jaćimović, N. Latinović: The influence of newly synthesised Zn (II) complexes based on pyrazole derivatives on the inhibition of *Phomopsis viticola* Sacc. (Sacc.) under laboratory conditions, Second International Symposium on Corrosion and protection of Materials and Environment, Bar, Montenegro, 17-20 Oct, 2012, Book of proceedings Bar, 2012, page 327-333.
4. I. Bošković, Ž. Jaćimović, M. Kosović, N. Latinović, " The influence of newly synthesised Ni(II) complexes based on pyrazole derivatives on the inhibition *B. Dothidea* of under laboratory conditions", XV Yucor, September 17-20, 2013, Tara, Serbia, Book of abstracts, page 188-193, ISBN 978-86-82343-19-6
5. Z. Leka, M. Kosović, J. Latinović, N. Latinović, " Inhibicioni efekat sintetisanog ditiokarbamato liganda $(NH_4)_3(idadc)$, na fitopatogenu gljivu *Botryosphaeria dothidea*", XV Yucor, September 17-20, 2013, Tara, Serbia, Book of abstracts, page 260-263, ISBN 978-86-82343-19-6
6. Ž. Jaćimović, A. Radović, M. Kosović, N. Latinović: " Influence of newly synthesized Cu(II) complexes on the pyrazole based derivatives on inhibition of *B. Dothidea*", 12th International conference protection and restoration of the environment, Jun 2014, Skiathos Island, Proceedings, page 719-714, ISBN 978-960-88490-6-8
7. V. Kastratović, Ž. Jaćimović, M. Bigović, M. Kosović, D. Đurović, S. Krivokapić, " Speciation of copper in lake sediments and bioaccumulation of macrophytes Scadar Lake, Montenegro" , 12th International conference protection and restoration of the environment, Jun 2014, Skiathos Island, Greece, Proceedings, page 725-730, ISBN 978-960-88490-6-8
8. Ž. Jaćimović, I. Bošković, A. Radović, M. Kosović, N. Latinović, „Influence of newly synthesized Cu(II) complexes on the pyrazole based derivatives on inhibition of *Phomopsis viticola* (Sacc.) Sacc.", 13th International Conference on Protection and Restoration of the Environment, 3rd to 8th July, 2016, Mykonos island, Greece, Book of abstract, page 154, Proceedings, page 471-476, ISBN 978-960-6865-94-7
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PRIJAVA TEME DOKTORSKE DISERTACIJE

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BIOGRAFIJA I BIBLIOGRAFIJA	
Obrazovanje	<ul style="list-style-type: none"> • Master program na Fakultetu za prehrambenu tehnologiju, bezbjednost hrane i ekologiju, smjer: Tehnologija proizvoda biljnog porijekla; Master rad: <i>Poređenje i problematika metoda za kvantitativno određivanje mikotoksina u žitu i proizvodima od žita putem tečne i gasne hromatografije</i>, Univerzitet Donja Gorica, 2019. – 2020, prosječna ocjena: 9,53; • Specijalizacija na Fakultetu za prehrambenu tehnologiju, bezbjednost hrane i ekologiju, smjer: Tehnologija proizvoda biljnog porijekla; Specijalistički rad: <i>Primjena, uloga i detekcija pesticida u agrokulturi</i>, Univerzitet Donja Gorica, 2018. – 2019, prosječna ocjena: 9,63; • Fakultet za prehrambenu tehnologiju, bezbjednost hrane i ekologiju; Diplomski rad: <i>Tehnološki postupak proizvodnje fermentisanog napitka Kombuha (hemijski parametri i preporuke prilikom konzumacije)</i>, Univerzitet Donja Gorica, 2015. – 2018, prosječna ocjena: 9,73; • Srednja škola, Gimnazija "Slobodan Škerović", 2011.-2015;
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Popis radova	<ul style="list-style-type: none"> Adamov, Ivana, Gordana Stanojević, Djordje Medarević, Branka Ivković, David Kočović, Dušica Mirković, and Svetlana Ibrić. "Formulation and characterization of immediate-release oral dosage forms with zolpidem tartrate fabricated by digital light processing (DLP) 3D printing technique." <i>International journal of pharmaceutics</i> 624 (2022): 122046.
NASLOV PREDLOŽENE TEME	
Na službenom jeziku	Sinteza, fizičko-hemijska karakterizacija i procjena potencijalne biološke aktivnosti novosintetizovanih kompleksnih jedinjenja na bazi pirazola i amoksicilina
Na engleskom jeziku	Synthesis, physicochemical characterization and potential biological activity of new pyrazole and amoxicillin complex compounds
Obrazloženje teme	
<p>Smatra se da pirazol i njegovi derivati imaju visok farmakološki potencijal za skoro sve vrste farmakoloških aktivnosti. Njihova primjena u farmakološkim agensima različitih terapijskih kategorija, dokazali su farmakološki potencijal derivata pirazola. Zahvaljujući ovoj raznolikosti u biološkom polju, ova klasa jedinjenja privlači pažnju mnogih istraživača.</p> <p>Ograničenost broja bezbjednih i efikasnih farmakološki aktivnih supstanci, ukazuje na potrebu za formiranjem novih bezbjednijih, efikasnijih i efektivnijih rješenja, tj. aktivnih supstanci. Takođe, prisustvo pojave antimikrobne rezistencije predstavlja globalno prepoznat problem, sa visokom potrošnjom antibiotika i visokim stepenom zastupljenosti ovih slučajeva na teritoriji Crne Gore, pa već ograničen broj antibiotika gubi svoju efektivnost u tretiranju bakterijskih infekcija.</p> <p>Amoksicilin kao jedan od najčešće korišćenih antibiotika, uz derivate pirazola, predstavlja osnovu mog započetog istraživanja, a kroz disertaciju: "Sinteza, fizičko-hemijska karakterizacija i procjena potencijalne biološke aktivnosti novosintetizovanih kompleksnih jedinjenja na bazi pirazola i amoksicilina", novosintetizovana jedinjenja bi se potpuno fizičko-hemijski okarakterisala a zatim bi se razmatrala njihova potencijalna biološka aktivnost i primjena u farmaciji.</p>	
Pregled istraživanja	
<p>Heterociklična jedinjenja koja sadrže azot i njihovi derivati predstavljaju važne izvore terapijskih sredstava. Pirazol, glavni predstavnik istoimene klase organskih jedinjenja, ima karakteristična dva atoma azota i pruža brojne funkcionalnosti i stereohemijsku složenost u petočlanoj prstenastoj strukturi. Pirazoli nalaze primjenu u brojnim sferama, a u ovom radu je u fokusu njihov visoki potencijal i primjena u polju farmacije.</p> <p>Kompleksi metala sa pirazolom i njegovim derivatima u novije vrijeme privlače pažnju mnogih autora, o čemu govori veliki broj objavljenih naučnih radova, kao i radova preglednog karaktera. Inače, ova jedinjenja su interesantna ne samo sa teorijskog, već i praktičnog aspekta. Naime, pirazoli ulaze u sastav mnogih lijekova (naročito antipiretika i antireumatika), herbicida i fungicida, a neki derivati pirazola se mogu koristiti i kao ekstrageni različitih metalnih jona. U najnovije vrijeme proširena su saznanja i o biokoordinacionoj hemiji pirazola i njegovih derivata. Među ovima značajni su neki makrociklični pirazolski ligandi u biohemiji prenosa kiseonika,</p>	

kao i oni koji učestvuju u formiranju trodimenzionalne strukture oko aktivnog centra bakar proteina (enzimi).

Primjer primjene jednog od predstavnika pirazola u polju medicine jeste fomepizol i njegova primjena u slučajevima trovanjem etilen glikolom ili metanolom. Fomepizol (4-metilpirazol) je predstavnik koji će se koristiti u svrhe ove studije. Pored fomepizola, za dobijanje kompleksnih jedinjenja sa serijom prelaznih metala, prilikom izrade doktorske disertacije, kao ligande za dobijanje kompleksa sa selektovanim metalima korišćićemo i sljedeće derivate pirazola: 2-(3-Aminofenil)-5-metil-2,4-dihidro-pirazol-3-on hidrohlorida i 5-(4-Bromofenil)-3-metil-1H-pirazola.

Pregledom baze podataka i literaturnom pretragom nijesu pronađena kompleksna jedinjenja sa navedenim ligandima derivatima pirazola. Štaviše, od ova tri predstavnika jedino je fomepizol ispitan u dijelu biološke aktivnosti, tako da će sinteza kompleksnih jedinjenja i njihova fizičko-hemijska karakterizacija, kao i određivanje potencijalne biološke aktivnosti dati naučni doprinos boljem poznavanju ove klase jedinjenja.

Pored liganada na bazi pirazola, u ovoj doktorskoj disertaciji korišćićemo kao ligand i sam amoksicilin kao i pirazolski derivat amoksicilina koji planiramo sintetizovati. Novosintetizovani pirazolski derivat amoksicilina će se potpuno fizičko-hemijski okarakterisati i koristiti za dobijanje kompleksnih jedinjenja sa serijom prelaznih metala. Do sada su sa amoksicilinom sintetizovana kompleksna jedinjenja sa Cu, La, Ce, Sm, Y, Ag, Fe, Co, Zn, Ni i Mn. Posebnu pažnju ćemo obratiti na odabir prelaznih metala koji sami po sebi pokazuju biološku aktivnost kao što su Pt, Pd, Ru, Cu i Zn.

Novosintetizovana kompleksna jedinjenja pirazolskog derivata amoksicilina, pored njihove karakterizacije, ispitivaćemo na biološku aktivnost i tu aktivnost upoređivati sa amoksicilinom koji je jedan od najčešće korišćenih antibiotika u primarnoj zdravstvenoj zaštiti.

Cilj i hipoteze

Cilj ove disertacije je sinteza novih jedinjenja, njihova fizičko-hemijska karakterizacija i ispitivanje potencijalne biološke aktivnosti u domenu njihovog farmakološkog potencijala. Kao polazne supstance u sintezama, korišćiće se određeni derivati pirazola, amoksicilin i novosintetisani pirazolski derivat amoksicilina, sa serijom prelaznih metala.

Disertacija ima sljedeće ciljeve:

- Sinteze novih kompleksnih jedinjenja na bazi amoksicilina i pirazolskog derivata amoksicilina sa jonima prelaznih metala: Pt, Pd, Ru, Cu i Zn;
- Sinteze novih kompleksnih jedinjenja na bazi derivata pirazola: 2-(3-Aminofenil)-5-metil-2,4-dihidro-pirazol-3-on hidrohlorida, 5-(4-Bromofenil)-3-metil-1H-pirazola i Fomepizola sa jonima prelaznih metala: Ni, Fe, Pd, Ru, Pt, Zn, Co, Cu, Mn, Fe i Cd;
- Fizičko-hemijska karakterizacija novosintetisanih kompleksnih jedinjenja tehnikama: XRD, CHNS, UV/VIS, FTIR; termičke metode (TGA, DTA i DSC). Dobijena kompleksna jedinjenja će se magnetohemijski okarakterisati i biće im određena i molarna provodljivost.

- Za ona kompleksna jedinjenja koja se u postupku sinteze dobiju u formi monokristala, a koji zadovoljavaju uslove tehnike, biće određena kristalna i molekulska struktura rendgenostruturnom analizom na monokristalnim uzorcima;
- Ispitivanja aktivnosti novosintetisanih jedinjenja na inhibiciju različitih sojeva bakterija u poređenju sa amoksicilinom kao referentnim materijalom;
- Procjena farmakološkog potencijala novosintetisanih kompleksnih jedinjenja.

Hipoteze istraživanja zasnovane su na sintezi novih kompleksnih jedinjenja i primjena novosintetisanih jedinjenja u poljima farmacije i medicine. Polazne hipoteze disertacije su:

H1: Zbog povoljnih strukturnih karakteristika polaznih supstanci, po principu odnosa ligand-metal, sintetisaće se nova kompleksna jedinjenja na bazi derivata pirazola fomezizola sa serijom prelaznih metala Ni, Fe, Pd, Ru, Pt, Zn, Co, Cu, Mn, Fe, Pd i Cd, sa posebnim osvrtom na Pt, Pd, Ru, Cu i Zn.

H2: Zbog povoljnih strukturnih karakteristika polaznih supstanci, po principu odnosa ligand-metal, sintetisaće se nova kompleksna jedinjenja na bazi derivata pirazola 2-(3-Aminofenil)-5-metil-2,4-dihidro-pirazol-3-on hidrohlorida sa serijom prelaznih metala Ni, Fe, Pd, Ru, Pt, Zn, Co, Cu, Mn, Fe, Pd i Cd, sa posebnim osvrtom na Pt, Pd, Ru, Cu i Zn.

H3: Sintetisaće se nova kompleksna jedinjenja na bazi derivata pirazola 5-(4-Bromofenil)-3-metil-1H-pirazol sa serijom prelaznih metala Ni, Fe, Pd, Ru, Pt, Zn, Co, Cu, Mn, Fe, Pd i Cd, sa posebnim osvrtom na Pt, Pd, Ru, Cu i Zn.

H4: Sintetisaće se nova kompleksna jedinjenja na bazi amoksicilina sa serijom prelaznih metala Pt, Pd, Ru, Cu i Zn.

H5: Zbog povoljnih strukturnih karakteristika polaznih supstanci, po principu odnosa ligand-metal, sintetisaće se nova kompleksna jedinjenja na bazi pirazolskog derivata amoksicilina sa serijom prelaznih metala Ni, Fe, Pd, Ru, Pt, Zn, Co, Cu, Mn, Fe, Pd i Cd, sa posebnim osvrtom na Pt, Pd, Ru, Cu i Zn.

H6: Potencijalna biološka aktivnost selektovanih novosintetizovanih kompleksnih jedinjenja će se ispitivati na odabranim vrstama i sojevima bakterija Odabir vrste i sojeva bakterija će zavisiti od strukture dobijenih kompleksnij jedinjenja.

Materijali, metode i plan istraživanja

Za postizanje navedenih ciljeva i hipoteza, u istraživanju će biti upotrijebljene sledeće metode:

- Sinteze novih kompleksnih jedinjenja u laboratorijskim uslovima;
- X-ray difrakcione analize (XRPD) uzoraka u cilju provjere i dokazivanja nastajanja novih jedinjenja;
- Elementalna CHNS analiza novosintetisanih uzoraka i poređenje dobijenih rezultata sa teorijskom pretpostavkom udjela elemenata sa ciljem određivanja formule dobijenih jedinjenja;
- Spektroskopske UV/VIS i IR analize u cilju konfirmacije položaja hemijskih veza i funkcionalnih grupa (konfirmacija teorijske pretpostavke strukture);
- Termičke TGA, DTA i DSC analize u svrhe mjerenja promjena hemijskih i fizičkih osobina u funkciji temperature.
- NMR analize uzoraka u cilju određivanja molekulske strukture.

- Za jedinjenja koja zadovolje uslove i budu dobijena u monokristalnoj formi uradiće se i rendgeno-struturna analiza na monokristalnom uzorku (RSA) sa ciljem dobijanja potpunih strukturnih informacija (izgled molekula, načina vezivanja, dužine i uglovi veza, prisustvo i odsustvo vodoničnih veza i njihov tip- inter ili intra molekulske vodonične veze);
- In-vitro ispitivanja baktericidnog dejstva novosintetisanih jedinjenja u odnosu na standard(amoksicilin);
- Izvođenja zaključaka.

Očekivani naučni doprinos

Poseban značaj ovog istraživanja predstavljaju novosintetisana jedinjenja, tj. dobijanje novih kompleksnih jedinjenja na bazi derivara pirazola, amoksicilina i pirazolskih derivara amoksicilina. Pored doprinosa, u naučnom smislu, što boljem poznavanju ovih klasa jedinjenja naučni doprinos će se ogledati i u potencijalnoj primjeni dobijenih jedinjenja kao biološko aktivnih supstanci.

Naučni doprinosi ogledaju se u:

- Unapređivanju naučne baze novim podacima o novim kompleksnim jedinjenjima;
- Unapređivanju potencijala različitih industrija (primarno medicine);
- Jačanju konkurentnosti Univerziteta Crne Gore u oblasti istraživanja;
- Podizanje svijesti o značaju sintetisanja novih supstanci i njihovom ispitivanju u domenu održivog razvoja;

Spisak objavljenih radova kandidata

- Adamov, Ivana, Gordana Stanojević, Djordje Medarević, Branka Ivković, David Kočović, Dušica Mirković, and Svetlana Ibrić. "Formulation and characterization of immediate-release oral dosage forms with zolpidem tartrate fabricated by digital light processing (DLP) 3D printing technique." *International journal of pharmaceutics* 624 (2022): 122046.

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**SAGLASNOST PREDLOŽENOG/IH MENTORA I DOKTORANDA SA
PRIJAVOM**

Odgovorno potvrđujem da sam saglasan sa temom koja se prijavljuje.

Prvi mentor	dr Željko Jaćimović	<i>Ž. Jaćimović</i>
Drugi mentor	/	/
Doktorand	David Kočović	<i>D. Kočović</i>

IZJAVA

Odgovorno izjavljujem da doktorsku disertaciju sa istom temom nisam prijavio/la ni na jednom drugom fakultetu.

U Podgorici,
15.11.2022.

D. Kočović Ime i prezime doktoranda