

NASTAVNO-NAUČNOM VEĆU STOMATOLOŠKOG FAKULTETA
UNIVERZITETA U BEOGRADU

Odlukom Nastavno-naučnog veća Stomatološkog fakulteta Univerziteta u Beogradu donetoj na sednici održanoj 19.11.2024. godine, imenovani smo za članove Komisije za ocenu ispunjenosti uslova za izbor u naučno zvanje **viši naučni saradnik** kandidata **dr Dijane Mitić** (devojačko **Trišić**) u oblasti Medicinske nauke. Na osnovu Zakona o naučnoistraživačkoj delatnosti („Službeni glasnik RS“ br 49/19), u skladu sa članom 21. Pravilnika o postupku i načinu vrednovanja i kvantitativnom iskazivanju naučno-istraživačkih rezultata istraživača („Službeni glasnik RS“ br. 159/2020), podnetih dokumenata i uvida u rezultate naučno-istraživačkog rada, podnosimo Nastavno-naučnom veću sledeći:

IZVEŠTAJ

1. Opšti biografski podaci

Dr Dijana Mitić rođena je 12.11.1987. godine u Mostaru, Bosna i Hercegovina. Stomatološki fakultet Univerziteta u Beogradu upisala je školske 2006/07. godine, a diplomirala u novembru 2012. godine sa prosečnom ocenom 9,18 (devet i 18/100). Doktorske studije na Stomatološkom fakultetu Univerziteta u Beogradu upisala je školske 2013/2014. godine na modulu: Bazična i klinička istraživanja u stomatologiji. Doktorsku tezu pod nazivom „Uticaj fotodinamske terapije i diodnog lasera na uspešnost endodontskog lečenja mladih stalnih zuba i biostimulaciju matičnih ćelija poreklom iz apikalne papile“ odbranila je 05.07.2019. godine na Stomatološkom fakultetu Univerziteta u Beogradu. Prosečna ocena tokom doktorskih studija 10,00 (deset i 0/100). Zvanje *naučni saradnik* stekla je odlukom Komisije za sticanje naučnih zvanja na sednici održanoj 11.06.2020. godine.

Od 2014. godine dr Dijana Mitić je član Laboratorije za bazična istraživanja Stomatološkog fakulteta. Tokom 2018. i 2019. godine bila je angažovana kao istraživač saradnik na naučnom projektu iz programa Osnovnih istraživanja Ministarstva prosvete, nauke i tehnološkog razvoja, ev. br. 1720126, pod nazivom: Hemijsko i strukturno dizajniranje nanomaterijala za primenu u medicini i inženjerstvu. Rukovodilac istraživanja dr Vukoman Jokanović, naučni savetnik Instituta za nuklearne nauke Vinča. Od januara 2020. godine zaposlena je u okviru godišnjih ugovora sa Ministarstvom prosvete, nauke i tehnološkog razvoja o realizaciji i finansiranju naučno-istraživačkog rada NIO (za 2024. godinu br. ugovora 451-03-66/2024-03/200129).

Od januara 2022. deo je istraživačkog tima na projektu: „*Oral Cancer – New Approaches in Prevention, Control and Post-operative Regeneration – an in vitro study – ORCA-PCR*“ (broj projekta 7750038) koji je finansiran od strane Fonda za nauku Republike Srbije, u okviru programa IDEJE. U okviru *ORCA-PCR* projekta dr Mitić je rukovodilac podprojekta radnog paketa 3: „*Oral cancer post-treatment regeneration*“.

U januaru 2024. godine dr Mitić je od strane Ministarstva nauke, tehnološkog razvoja i inovacija uvrštena u 10% izvrsnih istraživača iz oblasti Prirodno-matematičkih i medicinskih nauka (<https://nitra.gov.rs/cir/nauka/izvrsnost-u-nauci>).

Dr Dijana Mitić je do sada objavila 22 naučna rada na SCI listi, 4 rada u domaćim časopisima i imala 43 saopštenja na naučnim skupovima (ORCID: 0000-0002-0650-8193). Citiranost radova dr Dijane Mitić, za period od 1996. do 14.10.2024. je bez autocitata **229** (ukupno **245**), *H*-index **10** (Scopus ID: 57202322694).

2. Analiza naučno-istraživačkog rada

Najveći deo naučno-istraživačkog rada dr Dijane Mitić odnosi se na ispitivanje biokompatibilnosti i bioaktivnosti materijala (pre svega nanomaterijala baziranih na kalcijum-silikatima, kalcijum-aluminatima i hidroksiapatitu) za regeneraciju čvrstih i mekih tkiva usne duplje (regeneracija kosti, dentina i pulpe), kao i ispitivanje potencijala materijala na bazi celuloze uz dodatke nanočestica (citozana i grafena) za regeneraciju mekih tkiva usne duplje. Kandidatkinja se bavi i ispitivanjem biokompatibilnosti legura za primenu u stomatologiji. Drugi pravac istraživanja odnosi se na istraživanja u oblasti oralnog karcinoma, izolaciji i karakterizaciji karcinomskih matičnih ćelija, i mogućnostima lečenja prekanceroznih i kanceroznih promena usne duplje.

Početak kandidatovih istraživanja bio je usmeren na izolaciju i karakterizaciju matičnih ćelija poreklom iz tkiva apikalne papile zuba sa nezavršenim rastom korena. U okviru izrade doktorske disertacije kandidatkinja je ispitivala uticaj primene fotodinamske terapije i diodnog lasera velike snage na uspešnost lečenja primarnih endodontskih infekcija mladih stalnih zuba, kao i uticaja lasera na matične ćelije poreklom iz tkiva apikalne papile. Dodatno, ispitano je i antimikrobno dejstvo materijala za definitivnu opturaciju kanala korenova na bakterijske izolate. Dr Mitić se takođe bavila i istraživanjima u oblasti stomatoloških materijala, karakterizacijom i istraživanjem biokompatibilnosti nanomaterijala baziranih na kalcijum-silikatima, kalcijum-aluminatima i hidroksiapatitu. Takođe, učestvovala je u istraživanjima izolacije, karakterizacije i hemorezistencije ćelija iz karcinoma maksilofacijalne regije, kao i ispitivanju uticaja novosintetisanih nanočestica na ćelije tumora za njihovu potencijalnu primenu u medicini.

Veliki deo naučno-istraživačkog rada dr Dijane Mitić odnosi se na istraživanja u polju koštanih zamenika na bazi nano-hidroksiapatita i njihovoj primeni u koštanoj regeneraciji. Kandidatkinja je ispitivala dejstvo materijala na biokompatibilnost, migraciju, bioaktivnost u smislu sintezu alkalne fosfataze, osteogene diferencijacije matičnih ćelija u prisustvu materijala. Osteogena diferencijacija je bila potvrđena bojenjem Alizarin crvenim, relativnom genskom ekspresijom markera osteogene diferencijacije, i SEM mikrografijama ćelija na materijalu tokom diferencijacija kroz nedelje. Pored istraživanja u in vitro uslovima, uključena je i u in vivo istraživanja na animalnom modelu, u kojima se istražuju mogućnosti regeneracije velikih koštanih defekata. Usled primene velikih koštanih zamenika i njihove postepene resorpcije u organizmu, deo istraživanja se odnosio i na ispitivanje potencijalne subhronične toksičnosti kao i genotoksičnosti ispitivanih materijala na bazi nano-hidroksiapatita. Takođe, ispitivala se i potencijalna subhronična toksičnost i dentalnih cemenata na bazi kalcijum silikata.

Drugi deo istraživanja odnosi se na potencijalnu primenu hidrogelova u zarastanju rana. U okviru istraživanja dr Mitić je ispitivala biokompatibilnost novosintetisanih materijala (direktni test neutralno

crveno, i indirektni test mitohondrijske aktivnosti), njihov uticaj na migraciju ćelija tokom vremena, kao i na nivoe ekspresiju gena, markera angiogeneze. Biokompatibilnost legura nikl-titanijuma za primenu u stomatologiji je takođe bitan deo istraživanja kojim se bavi kandidatkinja. Legure po svojim karakteristikama ne ostaju inertne u aktivnoj sredini usne duplje. Zbog toga su urađena istraživanja biokompatibilnosti samih novosintetisanih legura, ali i njihovih ekstrakata u kraćem i dužem vremenskom periodu.

Poseban deo istraživanja dr Mitić tiče se ispitivanja mogućnosti lečenja oralnog karcinoma. U okviru istraživanja radi se izolacija i karakterizacija posebne subpopulacije u okviru karcinoma ćelija, nazvanih karcinomske matične ćelije. Jedan deo istraživanja odnosio se na ispitivanje potencijala kancerskih matičnih ćelija ka diferencijaciji u osteogenu i adipogenu lozu, kroz nedelje. Osim potvrde diferencijacije rađena je i analiza ekspresije gena vezanih za osteogenu i adipogenu diferencijaciju, kao i ekspresija odabranih mikro-RNK, proonkogenih (miR21 i miR31) i tumorsupresorske (miR133). Drugi deo istraživanja odnosio se na istraživanja epitelno-mezenhimske tranzicije u tkivu tumora i okolnog marginalnog tkiva. Određivanjem nivoa relativne genske ekspresije specifičnih markera epitelno-mezenhimske tranzicije ispitivana je specifičnost ćelija izolovanih iz tumorkih i marginalnih tkiva.

3. Bibliografija

Rezultati istraživanja u kojima je dr Dijana Mitić do sada učestvovala publikovani su u 3 rada u međunarodnim časopisima izuzetne vrednosti (M21a), 10 radova u vrhunskim međunarodnim časopisima (M21), 4 rada u istaknutim međunarodnim časopisima (M22) i 5 radova u međunarodnim časopisima (M23). Nakon pokretanja postupka za izbor u naučno zvanje naučni saradnik, dr Dijana Mitić je publikovala 16 radova u međunarodnim časopisima (2 rada kategorije M21a, 8 radova kategorije M21, 4 rada kategorije M22 i 2 rada kategorije M23). Kumulativni impakt faktor svih objavljenih radova iznosi 90,28; dok je kumulativni impakt faktor radova objavljenih u periodu nakon pokretanja postupka za izbor u naučnog saradnika 75,4. Pre pokretanja postupka za izbor u prethodno zvanje dr Dijana Mitić je publikovala i rad u vodećem časopisu nacionalnog značaja (M51), dva rada u nacionalnom časopisu (M53), a imala je i 23 kongresna saopštenja. Nakon pokretanja postupka za izbor u zvanje naučnog saradnika publikovala je još jedan rad u vodećem časopisu nacionalnog značaja (M51) i imala je još 20 kongresnih saopštenja.

RADOVI OBJAVLJENI PRE POKRETANJA POSTUPKA ZA IZBOR U ZVANJE NAUČNI SARADNIK

Radovi u vrhunskim međunarodnim časopisima kategorije M21a (10)

(10)

1. Paraš S, Janković O, **Trišić D**, Čolović B, Mitrović-Ajtić O, Dekić R, Soldatović I, Živković Sandić M, Živković S, Jokanović V. Influence of nanostructured calcium aluminate and calcium silicate on the liver: histological and unbiased stereological analysis. Int endod j, **2019**; 52(8):1162-1172. doi: 10.1111/iej.13105

IF = 3,331 (2018)

Radovi u vrhunskim međunarodnim časopisima kategorije M21 (8)

(nakon normiranja 6,67)

2. Mancic L, Djukic-Vukovic A, Dinic I, Nikolic MG, Rabasovic MD, Krmpot AJ, Costa AMLM, **Trisic D**, Lazarevic M, Mojovic Lj, Milosevic O. NIR photo-driven upconversion in NaYF₄:Yb,Er/PLGA particles for in vitro bioimaging of cancer cells. Mater Sci Eng C Mater Biol Appl., **2018**; 91: 597-605. doi: 10.1016/j.msec.2018.05.081

IF=5,080 (2017)

Materials Science, Biomaterials (6/33)

17 heterocitata

(8)

3. Milosevic M, Lazarevic M, Toljic B, Simonovic J, **Trisic D**, Nikolic N, Petrovic M, Milasin J. Characterization of stem-like cancer cells in basal cell carcinoma and its surgical margins. Exp Dermatol, **2018**; 27(10):1160-1165. doi: 10.1111/exd.13755

IF = 2,868 (2018)

Dermatology (19/66)

15 heterocitata

Radovi u međunarodnim časopisima kategorije M23 (3)

(3)

4. Markovic D, Petrovic B, Peric T, **Trisic D**, Kojic S, Kuljic B, Stojanovic G. Evaluation of sealant penetration in relation to fissure morphology, enamel surface preparation protocol and sealing material. Oral Health and Prev Dent, **2019**; 17(4):349-355. 10.3290/j.ohpd.a42689

IF=0,902

Dentistry, Oral Surgery & Medicine (81/90)

8 heterocitata

(3)

5. **Trisic D**, Cetenovic B, Zdravkovic N, Markovic T, Dojcinovic B, Jokanovic V, Markovic D. Antibacterial effects of new endodontic materials based on calcium silicates. Vojnosanit pregl; **2019**; 76(4): 365–372. doi:10.2298/VSP161231130T

IF = 0.405 (2017)

Medicine, General & Internal (144/155)

Bez citata

(nakon normiranja 2,5)

6. Lazarevic M, Milosevic M, **Trisic D**, Toljic B, Simonovic J, Nikolic N, Mikovic N, Jelovac D, Petrovic M, Vukadinovic M, Milasin J. Putative cancer stem cells are present in surgical margins of oral squamous cell carcinoma. J BUON, **2018**; 23(6):1686-1692.

IF = 1.766 (2017)
Oncology (189/223)
12 heterocitata

Doktorska disertacija M71

Trišić D. (2019) Uticaj fotodinamske terapije i diodnog lasera na uspešnost endodontskog lečenja mladih stalnih zuba i biostimulaciju matičnih ćelija poreklom iz apikalne papile. Stomatološki fakultet, Univerzitet u Beogradu.

Objavljeni radovi u vodećem časopisu nacionalnog značaja M51 (2)

(2)

1. **Trišić D**, Jokanović V, Antonijević Đ, Marković D. Stem cells in tissue engineering – dynamic cultivation requirement. Serbian Dental Journal, **2018**; 56:37-44.

Objavljeni radovi u nacionalnom časopisu M53 (1)

(2×1=2)

1. **Trišić D**, Ćetenović B, Jovanović I, Gjorgievska E, Popović B, Marković D. Diode laser irradiation in endodontic therapy through cycles - *in vitro* study. Balk J Dent Med, **2017**; 21:108-111.
2. Marković D, Rakašević D, **Trišić D**. Application of High-Power Diode Laser and Photodynamic Therapy in Endodontic Treatment - Review of the Literature. Balk J Dent Med, **2015**; 19:71-74.

Saopštenja sa međunarodnih skupova štampana u izvodu M34 (0,5)

(13×0,5=6,5)

1. Cetenovic B, **Trisic D**, Colovic B, Jokanović V, Markovic D. *In vitro* bioactivity of nanostructured materials mixed with different radiopacifiers using SCAP cells. 23rd BaSS Congress, Lasi, **2018**; Abstract book: 163-164.
2. **Trisic D**, Jovanovic I, Orhan K, Markovic D. Real-time thermographic and dentine structure analysis of mature and young permanent teeth treated with 940 nm and 975 nm diode lasers. 5th EADMFR Junior Meeting. Budapest, **2018**. Abstract book: 15.
3. Marković D, **Trišić D**. Primena lasera u dečijoj stomatogiji. VIII internacionalni simpozijum doktora stomatologije Republike Srpske, Foča **2017**; Knjiga apstrakata: 14-15.
4. **Trišić D**, Toljić B, Popović B, Milašin J, Marković D. Photobiomodulation of stem cells from apical papilla with high-power diode laser. AARC – 2nd PhD Student's Conference, From food to health, August 28-30. **2017**, Trieste, Italy, Abstract book:75-77.

5. **Trišić D**, Ćetenović B, Jovanović I, Gjorgievska E, Marković D. Real-time thermographic analysis of high-power diode lasers application in endodontic treatment of young permanent teeth. 22nd BaSS Congress, Thessaloniki, **2017**; Abstract book: 176.
6. **Trišić D**, Lazarević M, Jokanović V, Marković D. Biostimulative effects of diode laser on stem cells from apical papilla (SCAP) in tissue engineering. Third regional roundtable: Refractory, process industry, nanotechnologies and nanomedicine. Belgrade, **2017**; Abstract book: 103.
7. Ćetenović B, **Trišić D**, Čolović B, Jokanović V, Marković D. The influence of new nanostructured endodontic materials on human stem cells from the apical papilla. Third regional roundtable: Refractory, process industry, nanotechnologies and nanomedicine. Belgrade, **2017**; Page: 88.
8. Dinić I, Đukić-Vuković A, Mojović LJ, Costa A.M.L.M, **Trišić D**, Lazarević M, Milošević O, Mančić L. Synthesis of biocompatible upconverting nanoparticles for non-specific cell labeling. 12th Conference for Young Scientists in Ceramics, Novi Sad, **2017**; Abstract book: 95.
9. Ćetenović B, Prokić B, **Trišić D**, Jokanović V, Marković D. Chemical and biological properties of new nanostructured materials based on highly active calcium silicates. 13th EAPD Congress, Belgrade **2016**; Abstract Book: 61-62.
10. Ćetenović B, **Trišić D**, Marković N, Jokanović V, Marković D. Ion release profile of five different dental materials. 21st BaSS congress, Banja Luka **2016**; Abstract Book: 21.
11. **Trišić D**, Toljić B, Milošević M, Simonović J, Lazarević M, Popović B, Marković D, Milašin J. Cells from apical papilla differently express mesenchymal stem cell markers depending on patient's age and passage number. 11th Balkan Congress of human genetics, Belgrade **2015**; Abstract Book: 87.
12. Simonović J, Toljić B, Milošević M, **Trišić D**, Lazarević M, Nikolić N, Čarkić J, Miljković Đ, Milašin J. High expression of neural markers in stem cells from tooth apical papilla following induction. 11th Balkan Congress of human genetics, Belgrade **2015**; Abstract Book: 28.
13. Simonovic J, Toljic B, Milosevic M, **Trisic D**, Lazarevic M, Carkic J, Tredici G, Damante G, Miljkovic D, Milasin J. Neurogenic potential of stem cells from tooth apical papilla, Glowbrain final conference, May 27-31. **2015**, Zagreb, Croatia. Abstract book 92-93.

Saopštenja sa domaćih skupova štampana u izvodu M64 (0,2)

(10×0,2=2)

1. **Trišić D**, Lazarević M, Milošević M, Milosavljević A, Simonović J, Toljić B, Popović B, Marković D, Milašin J. Effect of diode laser irradiation on osteogenic differentiation of stem cells from apical papilla, 1st Congress of Molecular Biologists of Serbia. Belgrade, **2017**; Abstract book: 172.
2. Milošević M, Lazarević M, **Trišić D**, Simonović J, Toljić B, Petrović M, Milašin J. The correlation between CD44 expression and spheres characteristics, 1st Congress of Molecular Biologists of Serbia, Belgrade, **2017**, Abstract book: 60.
3. Marković D, **Trišić D**. Podloga u restaurativnoj stomatologiji – ima li potrebe? Prolećni simpozijum ečije stomatologije: Svakodnevni problem i praktična rešenja, Beograd **2017**; Knjiga apstrakata: 6 - 7.
4. Tupajić V, **Trišić D**, Unteneker K, Marković D. Praktične preporuke za uspešnu komunikaciju u dečijoj stomatologiji. Praktične preporuke za uspešnu komunikaciju u dečijoj stomatologiji. Prolećni

simpozijum ečije stomatologije „Svakodnevni problem i praktična rešenja“, Beograd **2017**; Knjiga apstrakata: 33.

5. Tupajić V, Tričković V, **Trišić D**. Značaj komunikacije između stomatologa i roditelja u dečijoj stomatologiji. XXXII simpozijum zdravstvenog vaspitanja u stomatologiji, Jagodina **2016**. Knjiga pastrakata, strana 155.
6. **Trišić D**, Jeremić M, Popović B, Marković D. Kliničko-radiografska i genetička dijagnostika čerubizma kod dece – prikaz slučaja. II kongres dečije i preventivne stomatologije, Beograd **2015**; Knjiga apstrakata, strana 25.
7. Tupajić V, **Trišić D**. Konzervativno zbrinjavanje periapikalne lezije oko korena prekobrojnog zuba i stalnog zuba 31 primenom mineral trioksid agregata – prikaz slučaja. II kongres dečije i preventivne stomatologije, Beograd **2015**; Knjiga apstrakata, strana 60 - 61.
8. Simonović J, Toljić B, Čarkić J, Lazarević M, Milošević M, **Trišić D**, Miljković Đ, Milašin J. Izolacija i karakterizacija matičnih ćelija iz apikalne papile impaktiranog umnjaka. Dostignuća i stremljenja u stomatologiji, Stomatološki fakultet, Beograd **2015**. Knjiga apstrakata, strane 25 - 26.
9. **Trišić D**. Uticaj diodnog lasera (940 nm) i fotodinamske terapije na mitohondrijsku aktivnost ćelija poreklom iz apikalne papile zuba. Dostignuća i stremljenja u stomatologiji, Stomatološki fakultet, Beograd **2015**. Knjiga apstrakata, strana 31.
10. Tupajić V, **Trišić D**, Marković D. Značaj komunikacije u dečijoj stomatologiji. XXXI simpozijum zdravstvenog vaspitanja u stomatologiji, Zrenjanin **2015**. Knjiga apstrakata, strana 41.

RADOVI OBJAVLJENI **NAKON POKRETANJA** POSTUPKA ZA IZBOR U ZVANJE NAUČNI SARADNIK

Radovi u međunarodnim časopisima kategorije M21

(8)

1. Paras Smiljana D, **Trisic Dijana D**, Mitrovic-Ajtic Olivera S, Prokic Bogomir B, Drobne Damjana, Zivkovic Slavoljub A, Jokanovic Vukoman R (2020) Toxicological Profile of Nanostructured Bone Substitute Based on Hydroxyapatite and Poly(lactide-co-glycolide) after Subchronic Oral Exposure of Rats, NANOMATERIALS, vol. 10, br. 5, Article Number 918.

IF = 5,076 (2020)

Physics, Applied (35/160)

4 heterocitata

Radovi u međunarodnim časopisima kategorije M23

(3/(1+0.2*(12-7)=1.5)

1. Lazarevic Milos M, Milosevic Maja, Jelovac Drago B, Milenkovic Sanja M, Tepavcevic Zvezdana, Baldan Federica, Suboticki Tijana, Toljic Bosko M, **Trisic Dijana D**, Dragovic Miroslav I, Damante Giuseppe, Milasin Jelena M (2020) Marked epithelial to mesenchymal transition in surgical margins of oral cancer-an in vitro study, ONCOLOGY LETTERS, vol. 19, br. 6, str. 3743-3750.

IF = 2,967 (2020)

Oncology (185/243)

9 heterocitata

Objavljeni radovi u vodećem časopisu nacionalnog značaja M51

(2)

1. Jokanović Vukoman, **Trišić Dijana**, Živković Marija (2020) Review of lasers application in dentistry, SERBIAN DENTAL JOURNAL, vol. 67, br. 1, str. 36 – 49.

Saopštenja sa međunarodnih skupova štampana u izvodu M34 (0.5)

(3×0.5=1.5)

1. **Trisic D**, Carkic J, Lazarevic M, Milosevic M, Milasin J, Jokanovic V. Gene expression analysis of odontogenic and osteogenic differentiation markers in human stem cells from apical papilla (SCAPS) seeded on bone substitute based on hydroxyapatite and PLGA. 6th Congress of the Serbian Genetic Society, October 13-17 2019, Vrnjačka Banja, Serbia. Book of Abstracts 02-56 P:101.
2. Milosevic M, Lazarevic M, **Trisic D**, Eljabo N, Petrovic M, Milasin J. The expression of hedgehog pathway genes in cancer stem cells of basal cell carcinoma. 6th Congress of the Serbian Genetic Society, October 13-17 2019, Vrnjačka Banja, Serbia. Book of Abstracts 02-50 P: 95.
3. Lazarevic M, Milosevic M, **Trisic D**, Nikolic N, Jelovac D, Eljabo N, Toljic B, Milasin J. Gene expression analysis of epithelial to mesenchymal transition markers in oral cancer and its margins. 6th Congress of the Serbian Genetic Society, October 13-17 2019, Vrnjačka Banja, Serbia. Book of Abstracts 02-54 P: 99.

Saopštenja sa skupova nacionalnog značaja štampana u izvodu M64 (0.2)

(2×0.2=0.4)

1. **Trišić D**, Lazarević M, Milošević M, Marković D. Primena fotodinamske terapije u endodontskom lečenju primarnih infekcija kanala korenova mladih stalnih zuba. 18. kongres stomatologa Srbije, Beograd, 26 – 28. septembar 2019., knjiga sažetaka: 29 – 30.
2. Milošević M, Đorđević I, Lazarević M, **Trišić D**, Petrović M, Jovanović S. Kvalitet života pacijenata obolelih od oralnog karcinoma nakon operacije i protetske rehabilitacije. 18. kongres stomatologa Srbije, Beograd, 26 – 28. septembar 2019., knjiga sažetaka: 42

Radovi u međunarodnim časopisima izuzetnih vrednosti kategorije M21a (10)

(10)

1. Zmekoski Danica Z, Zdravkovic Nemanja M, **Trisic Dijana D**, Budimir Milica D, Markovic Zoran MI, Kozyrovska Natalia O, Todorovic-Markovic Biljana M (2021) Chronic wound dressings-Pathogenic bacteria anti-biofilm treatment with bacterial cellulose-chitosan polymer or bacterial cellulose-chitosan dots composite hydrogels, INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol. 191, str. 315-323.

IF = 8,025 (2021)

Polymer Science (6/90)

27 heterocitata

(10/1+0.2*(9-7)=7.14)

2. Antonijevic Djordje M, Despotovic Ana R, Biocanin Vladimir M, Milosevic Milos S, **Trisic Dijana D**, Lazovic Vladimir M, Zogovic Nevena S, Milasin Jelena M, Ilic Dragan V (2021) Influence of the addition of different radiopacifiers and bioactive nano-hydroxyapatite on physicochemical and biological properties of calcium silicate based endodontic ceramic, CERAMICS INTERNATIONAL, vol. 47, br. 20, str. 28913-28923.

IF = 5.532 (2021)

Materials Science, Ceramics (2/28, 2019)

15 heterocitata

Radovi u međunarodnim časopisima kategorije M21 (8)

(8/1+0.2*(9-7)=5.71)

1. Majerič Peter, Miličić Lazić Minja, **Mitić Dijana**, Lazić Marko, Krdžović Lazić Ema, Vastag Gyöngyi, Anžel Ivan, Lazić Vojkan, Rudolf Rebeka (2024) The Thermomechanical, Functional and Biocompatibility Properties of a Au–Pt–Ge Alloy for PFM Dental Restorations, MATERIALS, vol. 17, br. 22, Article Number 5491.

IF = 3,4 (2022)

Metallurgy & Metallurgical Engineering (20/79)

Bez citata

(8)

2. **Mitic Dijana D**, Carkic Jelena, Jacimovic Jelena, Lazarevic Milos M, Jaksic-Karisik Milica, Toljic Bosko M, Milasin Jelena M (2024) The Impact of Nano-Hydroxyapatite Scaffold Enrichment on Bone Regeneration In Vivo-A Systematic Review, BIOMIMETICS, vol. 9, br. 7, Article Number 386.

IF= 4,5 (2022)

Engineering, Multidisciplinary (22/91)

Bez citata

(8)

3. Milicic-Lazic Minja, **Mitic Dijana D**, Radovic Katarina, Djordjevic Igor, Majeric Peter, Rudolf Rebeka, Grgur Branimir N (2024) Corrosion Behavior of Nickel-Titanium Continuous-Casted Alloys, METALS, vol. 14, br. 1, Article Number 88.

IF= 2,9 (2022)

Metallurgy & Metallurgical Engineering (24/80, 2023)

3 heterocitata

(8/1+0.2*(8-7)=6.67)

4. Pierfelice Tania Vanessa, Lazarevic Milos M, **Mitic Dijana D**, Nikolic Nadja S, Radunovic Milena, Iezzi Giovanna, Piattelli Adriano, Milasin Jelena M (2023) Red Light and 5% Aminolaevulinic Acid (5%) Inhibit Proliferation and Migration of Dysplastic Oral Keratinocytes via ROS Production: An In Vitro Study, GELS, vol. 9, br. 8, Article Number 604.

IF = 5,0 (2023)

Polymer Science (11/86)

3 heterocitata

(8)

5. Jaksic-Karisik Milica, Lazarevic Milos M, **Mitic Dijana D**, Nikolic Nadja S, Milosevic-Markovic Maja, Jelovac Drago B, Milasin Jelena M (2023) Osteogenic and Adipogenic Differentiation Potential of Oral Cancer Stem Cells May Offer New Treatment Modalities, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol. 24, br. 5, Article Number 4704.

IF= 6,208 (2021)

Biochemistry & Molecular Biology (66/285)

4 heterocitata

(8)

6. Paras Smiljana D, **Trisic Dijana D**, Mitrovic-Ajtic Olivera S, Antonijevic Djordje M, Colovic Bozana M, Drobne Damjana, Jokanovic Vukoman R (2021) Biocompatibility Study of a New Dental Cement Based

on Hydroxyapatite and Calcium Silicates: Focus on Liver, Kidney, and Spleen Tissue Effects, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol. 22, br. 11, Article Number 5468.

IF= 6,208 (2021)

Biochemistry & Molecular Biology (66/285)

2 heterocitata

$$(8/1+0.2*(13-7)=3.64)$$

7. Zmekoski Danica Z, Markovic Zoran MI, Budimir Milica D, Zdravkovic Nemanja M, **Trisic Dijana D**, Bugarova Nikol, Danko Martin, Kozyrovska Natalia O, Spitalsky Zdeno, Kleinova Angela, Kuzman Sanja B, Pavlovic Vladimir B, Todorovic-Markovic Biljana M (2021) Photoactive and antioxidant nanochitosan dots/biocellulose hydrogels for wound healing treatment, MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol. 122, Article Number 111925.

IF = 8,457 (2021)

Materials Science, Biomaterials (8/46)

31 heterocitat

Radovi u međunarodnim časopisima kategorije M22 (5)

$$(5/1+0.2*(9-7)=3.57)$$

1. Vukovic Mladen, Lazarevic Milos M, **Mitic Dijana D**, Jaksic-Karisik Milica, Ilic Branislav B, Andric Miroslav, Jevtic Bojan, Roganovic Jelena R, Milasin Jelena M (2022) Acetylsalicylic-acid (ASA) regulation of osteo/odontogenic differentiation and proliferation of human dental pulp stem cells (DPSCs) in vitro, ARCHIVES OF ORAL BIOLOGY, vol. 144, Article Number 105564.

IF 2022 = 3,0

Dentistry, Oral Surgery & Medicine (37/91)

6 heterocitata

(5)

2. Milicic-Lazic Minja, Majeric Peter, Lazic Vojkan M, Milasin Jelena M, Jaksic Milica V, **Trisic Dijana D**, Radovic Katarina (2022) Experimental Investigation of the Biofunctional Properties of Nickel-Titanium Alloys Depending on the Type of Production, MOLECULES, vol. 27, br. 6, Article Number 1960.

IF= 4,927 (2021)

Biochemistry & Molecular Biology (114/297)

1 heterocitat

(5)

3. Zmejkoski Danica Z, Markovic Zoran MI, **Mitic Dijana D**, Zdravkovic Nemanja M, Kozyrovska Natalia O, Bugarova Nikol, Todorovic-Markovic Biljana M (2022) Antibacterial composite hydrogels of graphene quantum dots and bacterial cellulose accelerate wound healing, JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS, vol. 110, br. 8, str. 1796-1805.

IF = 3,405 (2021)

Engineering, Biomedical (58/98)

42 heterocitata

$$(5/1+0.2*(15-7)=1.92)$$

4. Zmejkoski Danica Z, Markovic Zoran MI, Zdravkovic Nemanja M, **Trisic Dijana D**, Budimir Milica D, Kuzman Sanja B, Kozyrovska Natalia O, Orlovska Iryna V, Bugarova Nikol, Petrovic Djordje Z, Kovacova Maria, Kleinova Angela, Spitalsky Zdeno, Pavlovic Vladimir B, Todorovic-Markovic Biljana M (2021) Bactericidal and antioxidant bacterial cellulose hydrogels doped with chitosan as potential urinary tract infection biomedical agent, RSC ADVANCES, vol. 11, br. 15, str. 8559-8568.

IF = 4,036 (2021)

Chemistry, Multidisciplinary (75/180)

14 heterocitata

Radovi u međunarodnim časopisima kategorije M23 (3)

$$(3/1+0.2*(13-7)=1.36)$$

1. Micic Milutin, Antonijevic Djordje M, Milutinovic-Smiljanic Sanja M, **Trisic Dijana D**, Colovic Bozana M, Kosanovic Dejana D, Prokic Bogomir B, Vasic Jugoslav, Zivkovic Slavoljub A, Milasin Jelena M, Danilovic Vesna, Djuric Marija P, Jokanovic Vukoman R (2020) Developing a novel resorptive hydroxyapatite-based bone substitute for over-critical size defect reconstruction: physicochemical and biological characterization and proof of concept in segmental rabbit's ulna reconstruction, BIOMEDICAL ENGINEERING-BIOMEDIZINISCHE TECHNIK, vol. 65, br. 4, str. 491-505.

IF = 1,411 (2020)

Engineering, Biomedical (80/90)

11 heterocitata

Saopštenja sa međunarodnih skupova štampana u izvodu M34 (0.5)

$$(8 \times 0.5 = 4)$$

1. **Mitic D**, Lazarevic M, Jaksic Karisik M, Milasin J. Lactobacillus salivarius as an Adjuvant to Antitumor Effect of Paclitaxel on Oral Squamous Cell Carcinoma. Molecular Oncology 18 (Suppl. 1) (2024) page

- 149 Annual Congress of the European Association for Cancer Research, 10-13 June 2024, Rotterdam, Netherlands.
2. Lazarevic M, Jaksic Karisik M, **Mitić D**, Milasin J. Effect of BET inhibitors on oral squamous cell carcinoma cell line and its' CD44 positive subpopulation. *Molecular Oncology* 18 (Suppl. 1) (2024) page 158, Annual Congress of the European Association for Cancer Research, 10-13 June 2024, Rotterdam, Netherlands.
 3. Daković M, Nakarada Đ, Savić A, **Mitić D**, Pavićević A, Mojović Z, Mojović M. Electrochemical and EPR Characterization of Stem Cells for Regenerative Medicine Applications. 10th Regional Biophysics Conference & 15th International Summer School of Biophysics, August 26 - 30, 2024 Split, Croatia, ISBN 978-953-7941-53-6, page 47.
 4. Nikolić N, Jakšić Karišik M, **Mitić D**, Lazarević M, Milošević Marković M, Milašin J. The effect of osteogenic differentiation and BET inhibitors on oral cancer cell line SCC25 viability. 26th Congress of the BaSS, 11 – 14 May 2023, Skopje, Republic of North Macedonia
 5. **Mitić D**, Lazarević M, Jakšić Karišik M, Milašin J. Exosomal microRNAs derived from oral premalignant (DOK) and malignant (SCC-25) cell lines. 14th Balkan Congress of Human Genetics and 9th Rare Disease SEE Meeting, October 05 – 07, 2023, Skopje, Republic of North Macedonia. Book of Abstracts: 104.
 6. **Mitić D**, Lazarevic M, Jaksic Karisik M, Milasin J. Effect of BET inhibitors on cancer stem cells sorted from primary oral cancer cell culture. page 85, *Oncology Insights*, ISSN 3009-3848, Belgrade, Serbia, October, 2023 Year 2023/No. 1 Proceedings book. The sixth congress of the serbian association for cancer research, 2 – 4 October 2023
 7. Lazarević M, **Mitić D**, Vlajić Tovilović T, Čarkić J, Nikolić N, Milašin J. The effect of Lactobacillus salivarius on AKT-mTOR signaling pathway in normal, dysplastic, and oral cancer cell co-cultures. page 93, *Oncology Insights*, ISSN 3009-3848, Belgrade, Serbia, October, 2023 Year 2023/No. 1 Proceedings book. The sixth congress of the serbian association for cancer research, 2nd – 4th October 2023
 8. Milicic Lazic M, **Trisic D**, Jaksic M, Popovic D, Đorđević I, Lazic V. Biocompatibility of copper-based shape memory alloy. *International Dental Journal*, page S50, September 2021, volume 71, Supplement 2, ISSN 0020-6539, [doi: 10.1016/j.identj.2021.08.047](https://doi.org/10.1016/j.identj.2021.08.047)

Saopštenja sa skupova nacionalnog značaja štampana u izvodu M64 (0.2)

(7×0.2=1.4)

1. Mališić K, Milošević Marković M, **Mitić D**, Jovanović S. Univerzalna pokrivenost oralnim zdravljem. IV kongres preventivne stomatologije, 27 – 28. oktobar 2023., Beograd, Srbija. Knjiga sažetaka: 54.
2. Jaksic Karisik M, Lazarevic M, **Mitić D**, Milosevic Markovic M, Milasin J. The effect of osteogenic differentiation on oral cancer stem cells' miR-21 and miR-133 expression. 5th congress of the serbian association for cancer research, page 34, December 3, 2021, Virtual event.
3. **Trišić D**, Lazarević M, Jakšić M, Milošević M, Milašin J. Potencijal regeneracije matičnih ćelija poreklom iz tkiva apikalne papile zuba (SCAP). 19. kongres stomatologa Srbije, 1 – 4. oktobar 2020. Beograd, Srbija. Knjiga sažetaka: 128.

4. Milošević M, **Trišić D**, Lazarević M, Jakšić M, Jovanović S. Znanje, stavovi i ponašanje studenata stomatologije u vezi sa pušenjem. 19. kongres stomatologa Srbije, 1 – 4. oktobar 2020. Beograd, Srbija. Knjiga sažetaka: 99.
5. Lazarević M, Jakšić M, **Trišić D**, Milošević M, Milašin J. Efekat BET inhibitora na ćelije oralnog karcinoma. 19. kongres stomatologa Srbije, 1 – 4. oktobar 2020. Beograd, Srbija. Knjiga sažetaka: 127.
6. Jakšić M, **Trišić D**, Lazarević M, Milošević M, Milašin J. Uticaj egzozoma poreklom iz matičnih ćelija pulpe zuba na kancerske ćelije planocelularnog karcinoma. 19. kongres stomatologa Srbije, 1 – 4. oktobar 2020. Beograd, Srbija. Knjiga sažetaka: 129.
7. Simić N, Jakšić M, **Trišić D**, Lazarević M, Cvetković D, Milašin J. Analiza ekspresije gena *Notch* signalnog puta u ćelijama oralnog karcinoma tretiranim egzozomima mezenhimskih matičnih ćelija. IV simpozijum biologa i ekologa Republike Srpske, Banja Luka, Republika Srpska, 12 – 14. novembar 2020. Knjiga sažetaka: 75 - 76.

PET NAJZNAČAJNIH NAUČNIH OSTVARENJA (nakon pokretanja izbora u zvanje naučni saradnik)

1. **Mitic Dijana D**, Carkic Jelena, Jacimovic Jelena, Lazarevic Milos M, Jaksic-Karisik Milica, Toljic Bosko M, Milasin Jelena M (**2024**) The Impact of Nano-Hydroxyapatite Scaffold Enrichment on Bone Regeneration In Vivo-A Systematic Review, BIOMIMETICS, vol. 9, br. 7, Article Number 386.
Kategorija M21, IF = 4,5 (2022)
2. Milicic-Lazic Minja, **Mitic Dijana D**, Radovic Katarina, Djordjevic Igor, Majeric Peter, Rudolf Rebeka, Grgur Branimir N (**2024**) Corrosion Behavior of Nickel-Titanium Continuous-Casted Alloys, METALS, vol. 14, br. 1, Article Number 88.
Kategorija M21, IF= 2,9 (2022)
3. Jaksic-Karisik Milica, Lazarevic Milos M, **Mitic Dijana D**, Nikolic Nadja S, Milosevic-Markovic Maja, Jelovac Drago B, Milasin Jelena M (**2023**) Osteogenic and Adipogenic Differentiation Potential of Oral Cancer Stem Cells May Offer New Treatment Modalities, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol. 24, br. 5, Article Number 4704.
Kategorija M21, IF= 6,208 (2021)
4. Paras Smiljana D, **Trisic Dijana D**, Mitrovic-Ajtic Olivera S, Antonijevic Djordje M, Colovic Bozana M, Drobne Damjana, Jokanovic Vukoman R (**2021**) Biocompatibility Study of a New Dental Cement Based on Hydroxyapatite and Calcium Silicates: Focus on Liver, Kidney, and Spleen Tissue Effects, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol. 22, br. 11, Article Number 5468.
Kategorija M21, IF= 6,208 (2021)

5. Zmekoski Danica Z, Zdravkovic Nemanja M, **Trisic Dijana D**, Budimir Milica D, Markovic Zoran MI, Kozyrovska Natalia O, Todorovic-Markovic Biljana M (**2021**) Chronic wound dressings-Pathogenic bacteria anti-biofilm treatment with bacterial cellulose-chitosan polymer or bacterial cellulose-chitosan dots composite hydrogels, INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol. 191, str. 315-323.

Kategorija M21a, IF = 8,025 (2021)

O kvalitetu i aktuelnosti najvažnijih istraživanja dr Dijane Mitić (devojačko Trišić), svedoči činjenica da su rezultati istraživanja u kojima je učestvovala objavljeni u prestižnim međunarodnim časopisima sa visokim impakt faktorima. Prilikom izrade svih navedenih radova dr Mitić je imala aktivnu ulogu u idejnom dizajnu, metodološkim postavkama, realizaciji eksperimenata, kao i pisanju i pripremi radova za publikovanje.

Rad pod rednim brojem 1: U ovom sistematskom pregledu kritički se posmatrao uticaj na koštanu regeneraciju bioloških komponenti (faktora rasta, hormona, polipeptida, mikroRNK i egzozoma) dodatnih u skafold na bazi nano-hidroksiapatita, u in vivo istraživanjima. Pregledom literature od 2989 radova nađenih po ključnim rečima, 12 radova je ušlo u izbor za konačnu analizu. Rezultati su pokazali da je nekoliko bioaktivnih komponenti doprinelo ubrzanom koštanom zarastanju u in vivo uslovima, u odnosu na same skafolde na bazi nano-hidroksiapatita, bez dodatnih bioaktivnih komponenti. S druge strane, zaključeno je da je heterogenost u istraživanjima vezana za izbor animalnog modela, vrste defekta, doze bioaktivne komponente, trajanja istraživanja i metoda analize rezultata onemogućava dublju analizu datih rezultata. Pre kliničkih ispitivanja neophodno je standardizovati istraživanja na animalnim modelima kako bi se mogli adekvatno analizirati rezultati različitih istraživačkih grupa i unaprediti znanje iz oblasti koštane regeneracije. Rad je deo istraživanja u okviru projekta Fonda ORCA-PCR.

Doprinos kandidata: kandidatkinja je osmislila studiju za sistematski pregled, izvela celokupnu analizu radova uz pomoć kolega koautora, učestvovala u pisanju prve, kao i konačne verzije rada. Kandidatkinja je nosilac rada i prvi autor.

Rad pod rednim brojem 2: Cilj istraživanja bio je odrediti mikrostrukturu, stepen korozije i biokompatibilnost nove nikl-titanijumske legure dobijene kontinuiranim livenjem, i uporediti dobijene vrednosti sa komercijalno dostupnom nikl-titanijumskom legurom. Mikrostruktura je definisana površinom i veličinom zrna, te se tako pokazalo da se kontinuiranim livenjem dobija sitnozrnasta legura, u odnosu na komercijalnu. Korozija komercijalnih i eksperimentalnih legura praćena je analitičkim i elektrohemijskim testovima. Bolja stabilnost na koroziju pokazana je kod kontinuirano livenih uzoraka. Elementarna analiza korodiranih površina pokazala je povećano taloženje jona hlora na površini komercijalnih uzoraka ukazujući na lokalni proboj oksida. Eksperimentalni uzorci pokazali su tri puta veću otpornost na polarizaciju tokom vremena. Testovi biokompatibilnosti pokazali su da se dešava promena u metaboličkoj aktivnosti ljudskih fibroblasta izolovanih iz gingive. MTT esej pokazao je da se mitohondrijska aktivnost smanjuje u prisustvu oba materijala tokom vremena. Rad je proizašao iz rezultata tokom rada na doktorskoj disertaciji dr Minje Miličić-Lazić.

Doprinos kandidata: kandidatkinja je bila deo multidisciplinarnog i internacionalnog tima. Učestvovala je u planiranju i dizajniranju studije, naročito dela studije koji se odnosio na ispitivanje biokompatibilnosti kontinuirano izlivenih nikl-titanijumskih legura. Kandidatkinja je bila zadužena za izvođenje eksperimentalnog dela ispitivanja, analizu i predstavljanje rezultata, kao i pisanje rada.

Rad pod rednim brojem 3: Cilj rada bio je ispitati multipotentnost izolovane subpopulacije kancerskih matičnih ćelija planocelularnog carcinoma ispitujući potencijal diferencijacije i uticaj diferencijacije na matičnost, apoptozu i ekspresiju pojedinih mikroRNK. Ćelije pozitivne na marker CD44 su izdvojene kao kancerske matične ćelije, a zatim su diferencijirane kao osteogenoj i adipogenoj liniji. Kinetika diferencijacije je ispitana genskom ekspresijom markera specifičnih za navedene loze u 4 vremenska perioda (1, 7, 14 i 21 dan). Pokazano je da nivoi ekspresije markera rastu tokom povećanja perioda diferencijacije ka specifičnoj lozi, dok opada ekspresija markera matičnosti i proliferacije. Ekspresije onkogene miR21 je takođe opadala tokom perioda diferencijacije, dok je ekspresija tumorsupresorne miR133 i miR491 rasla. Nakon završene diferencijacije karcinomske matične ćelije ispoljile su karakteristike diferencijiranih ćelija. Ovo je bilo praćeno gubitkom svojstava matičnosti. Rad je nastao kao rezultat izrade doktorske disertacije Milice Jakšić Karišik koja je u toku, i deo je istraživanja u okviru projekta Fonda ORCA-PCR.

Doprinos kandidata: u okviru istraživanja kandidatkinja je bila zadužena za ispitivanje potencijala kancerskih matičnih ćelija ka diferencijaciji u osteogenu i adipogenu lozu, kroz nedelje. Osim potvrde diferencijacije kandidatkinja je radila i analizu ekspresije gena vezanih za osteogenu i adipogenu diferencijaciju, kao i ekspresiju odabranih mikro-RNK, proonkogenih (miR21 i miR31) i tumorsupresorske (miR133). Kandidatkinja je osmislila i sprovela navedeni deo istraživanja, rezultate je predstavila grafički i u slikama. Za potrebe rada dobijene rezultate je analizirala i uporedila sa ostalim dobijenim rezultatima u studiji. Učestvovala je u svim fazama pisanja rada.

Rad pod rednim brojem 4: Subhronična toksičnost novosintetisanog cementa na bazi hidroksiapatita i kalcijum-silikata ispitana je in vivo. Ekstrakt materijala je svakodnevno davan pacovima tokom 120 dana, nakon čega su uzeti tkiva jetre, slezine i bubrega radi ispitivanja potencijalnog toksičnog dejstva. Životinje bez tretmana služile su kao kontrola. Histološka analiza tkiva pokazala je očuvanje građe ispitivanih tkiva, uz prisustvo aktivnih mitotičkih ćelija. Značajna ekspresija Ki67 proteina u eksperimentalnoj grupi potvrdila je proliferativni efekat ekstrakta materijala na ćelije tkiva, dok marker imunoreaktivnih ćelija, CD68, nije bio značajno eksprimiran u eksperimentalnoj grupi u odnosu na kontrolu. Istraživanje je pokazalo odsustvo toksičnosti materijala na tkiva ispitivanih organa i omogućuje dalja istraživanja ispitivanog cementa u endodonciji.

Doprinos kandidata: u navedenoj studiji kandidatkinja je bila deo multidisciplinarnog i internacionalnog tima. Učestvovala je u osmišljavanju studije. U okviru istraživanja bila je zadužena za pripremu uzoraka, analizu i predstavljanje svih rezultata, posebno histoloških i imunohistohemijskih. Takođe, napisala je prvu verziju rada i oblikovala rad u svim njegovim segmentima.

Rad pod rednim brojem 5: Novosintetisani hidrogelovi na bazi celuloze sa polimerom citosana i nanočestica citosana dobijeni su gama zračenjem pri dozama 20, 40 i 60 kGy. Fizičke i hemijske analize pokazale su inkorporaciju hitozana i inkapsulaciju nanočestica u celulozni polimer. Hidrogelovi su pokazali dozno zavisno povećanje hrapavosti površine. U in vitro istraživanju na ćelijama fibroblasta gingive pokazana je biokompatibilnost hidrogelova, uz značajnu stimulaciju migracije ćelija koja je dozno zavisna. Odličan potencijal uklanjanja biofilma uz redukciju od 90% viabilnosti bakterijskog biofilma¹, i do 65% smanjenja visine biofilma. Novosintetisani hidrogel u različitim koncentracijama pokazao se kao odlično sredstvo za lečenje hroničnih rana.

Doprinos kandidata: kandidatkinja je bila deo multidisciplinarnog i internacionalnog tima. U istraživanju kandidatkinja je bila zadužena za izolaciju fibroblasta iz gingive, ispitivanje vijabilnosti fibroblasta u

prisustvu kompozitnih hidrogelova namenjenih primeni u zarastanju rana, i uticaj pomenutih antimikrobnih hidrogelova na migraciju ćelija. Kandidatkinja je osmislila i odradila biološki deo istraživanja. Dobijene rezultate je predstavila, analizirala i prodiskutovala. Učestvovala je u pisanju rada.

PRIKAZ NAUČNIH RADOVA

U ovom delu izveštaja dat je kratak prikaz i analiza rezultata koji su objavljeni nakon pokretanja izbora u prethodno zvanje *naučni saradnik*.

- **Lazarevic Milos M, Milosevic Maja, Jelovac Drago B, Milenkovic Sanja M, Tepavcevic Zvezdana, Baldan Federica, Suboticki Tijana, Toljic Bosko M, Trisic Dijana D, Dragovic Miroslav I, Damante Giuseppe, Milasin Jelena M (2020) Marked epithelial to mesenchymal transition in surgical margins of oral cancer-an in vitro study, ONCOLOGY LETTERS, vol. 19, br. 6, str. 3743-3750.**

U navedenoj studiji ćelije izolovane iz tkiva planocelularnog karcinoma, i okolnog marginalnog tkiva korišćene su kako bi se ispitao nivo ekspresije genskih markera povezanih sa epitelno-mezenhimskom tranzicijom (EMT). Takođe, ispitani su klonogeni, proliferativni i migratorni potencijal izolovanih ćelija dva susedna tkiva. Relativni nivo ekspresije genskih markera vezanih za EMT pokazao je trend značajnije ekspresije u marginalnom tkivu, u odnosu na tumorsko. Takođe, nivo ekspresije je bio viši u petoj pasaži ćelija u odnosu na prvu, dok je proliferacija i migracija ćelija bila značajnija u prvoj pasaži. Zaključeno je da ćelije i tumorskog i marginalnog tkiva ispoljavaju slične karakteristike kada je EMT u pitanju. Rad je prizašao iz rezultata itrade doktorske disertacije dr Miloša Lazarevića.

- **Paras Smiljana D, Trisic Dijana D, Mitrovic-Ajtic Olivera S, Prokic Bogomir B, Drobne Damjana, Zivkovic Slavoljub A, Jekanovic Vukoman R (2020) Toxicological Profile of Nanostructured Bone Substitute Based on Hydroxyapatite and Poly(lactide-co-glycolide) after Subchronic Oral Exposure of Rats, NANOMATERIALS, vol. 10, br. 5, Article Number 918.**

Toksični potencijal novosintetisanog trodimenzionalnog nosača na bazi nano-hidroksiapatita je ispitivan in vitro na monocitima primenom komet eseja, i u in vivo uslovima na pacovima. Sistemska subhronična toksičnost je ispitana primenom određene doze ekstrakta materijala koji se davao oralno životinjama tokom 120 dana. Histološka analiza jetre, bubrega i slezine je rađena na kraju istraživanja. Komet esej je pokazao nizak nivo genotoksičnog potencijala materijala, dok histološkom analizom nije uočena očigledna razlika u strukturi tkiva između tretiranih i kontrolnih životinja. Primećeno je i opisano povećanje gustine krvnih sinusoida u vezivnog tkiva, kao i broj mitozna. Imunohistohemijskim ispitivanjem utvrđena je značajna ekspresija ki67 markera, i neznatno povećana ekspresija markera CD68. Sa druge strane, proliferacija imunoreaktivnih ćelija nije nađena. Ova studija je značajna iz ugla sigurnosti primene novosintetisanog materijala za buduću primenu u koštanoj regeneraciji.

- **Micic Milutin, Antonijevic Djordje M, Milutinovic-Smiljanic Sanja M, Trisic Dijana D, Colovic Bozana M, Kosanovic Dejana D, Prokic Bogomir B, Vasic Jugoslav, Zivkovic Slavoljub A, Milasin Jelena M, Danilovic Vesna, Djuric Marija P, Jakanovic Vukoman R (2020) Developing a novel resorptive hydroxyapatite-based bone substitute for over-critical size defect reconstruction: physicochemical and biological characterization and proof of concept in segmental rabbit's ulna reconstruction, BIOMEDICAL ENGINEERING-BIOMEDIZINISCHE TECHNIK, vol. 65, br. 4, str. 491-505.**

Cilj studije bio je da se razvije koštani zamenik namenjen rekonstrukciji kosti nakon segmentalne osteotomije. Individuala, trodimenzioni koštani zamenik napravljen je od nano-hidroksiapatita sa PLGA prevlakom koristeći 3D model dobijen snimanjem kosti zeca na CT-u, da bi se postigla imitacija anatomskog oblika koštanog defekta. Preliminarna in vitro istraživanja na ćelijama apikalne papile zuba pokazale su potencijal koštanog zamenika da u prisustvu osteogenog medijuma, ali i kada je primenjen sam u medijumu za rast ćelija dovodi do osteogene diferencijacije. U in vivo uslovima pokazano je da dobijeni konstrukt ima zadovoljavajuću mikroarhitekturu za koštanu regeneraciju. Na kraju ispitivanog perioda mikro CT analiza, rendgenska i histološka analiza pokazali su apoziciju kosti duž citavog zamenika uz male delove neresorbovanog materijala u sredini defekta. Navedeni rad proizašao je kao rezultat istraživanja u okviru doktorske disertacije dr Milutina Milića.

- **Zmejkoski Danica Z, Markovic Zoran MI, Zdravkovic Nemanja M, Trisic Dijana D, Budimir Milica D, Kuzman Sanja B, Kozyrovska Natalia O, Orlovska Iryna V, Bugarova Nikol, Petrovic Djordje Z, Kovacova Maria, Kleinova Angela, Spitalsky Zdeno, Pavlovic Vladimir B, Todorovic-Markovic Biljana M (2021) Bactericidal and antioxidant bacterial cellulose hydrogels doped with chitosan as potential urinary tract infection biomedical agent, RSC ADVANCES, vol. 11, br. 15, str. 8559-8568.**

U ovom radu citozan u dve koncentracije je inkorporiran u trodimenzionalnu poroznu strukturu celuloze poreklom iz bakterija, radi ispitivanja potencijala primene u zarastanju inficiranih rana. Ispitane su strukturne i optičke karakteristike novonastalog kompozita. Pokazana je umerena antioksidativna aktivnost kao i oslobađanje 13% citosana tokom prva 3 dana. Antibakterijska ispitivanja na Gram pozitivnim i Gram negativnim bakterijama pokazala su antibakterijski potencijal novog materijala. Istraživanja na ćelijama fibroblasta pokazala je su da obe koncentracije citozana u celulozi biokompatibilna. Zaključeno je da se nosintetisani biokompoziti mogu potencijalno koristiti u budućnosti za izradu katetera u lečenju upornih urinarnih infekcija.

- **Zmejkoski Danica Z, Markovic Zoran MI, Budimir Milica D, Zdravkovic Nemanja M, Trisic Dijana D, Bugarova Nikol, Danko Martin, Kozyrovska Natalia O, Spitalsky Zdeno, Kleinova Angela, Kuzman Sanja B, Pavlovic Vladimir B, Todorovic-Markovic Biljana M (2021) Photoactive and antioxidant nanochitosan dots/biocellulose hydrogels for wound healing treatment, MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol. 122, Article Number 111925.**

Nano-citozanske kvantne tačke sintetisane gama zračenjem inkapsulirane u celulozu poreklom iz bakterija u polimerni matriks ispitane su u kontekstu antibakterijskog dejstva i biokompatibilnosti, radi potencijalne

primene u zarastanju rana. Karakterizacijom materijala pokazano je da čestice nano-citozana imaju oblik diska i dimenzije od 40 do 60 nm zavisno od primenjene doze zračenja. Svi sintetisani nanokompoziti emitovali su zelenu fotoluminiscenciju nezavisno od talasne dužine ekscitacije. In vitro istraživanja na fibroblastima pokazala su da ne postoji citotoksični efekat na humane ćelije, dok antioksidativna analiza ukazuje na umerenu aktivnost slobodnih radikala. Antibakterijsko dejstvo pokazalo je značajnu inhibiciju rasta bakterija koje se nalaze u hronično inficiranim ranama. Svi rezultati ukazuju na značajan potencijal za primenu novosintetisanog materijala u zarastanju rana. Rad je osvojio prvu nagradu Zadužbine Veselin Lučić kao najbolje naučno ostvarenje za 2021. godinu.

- **Paras Smiljana D, Trisic Dijana D, Mitrovic-Ajtic Olivera S, Antonijevic Djordje M, Colovic Bozana M, Drobne Damjana, Jkanovic Vukoman R (2021) Biocompatibility Study of a New Dental Cement Based on Hydroxyapatite and Calcium Silicates: Focus on Liver, Kidney, and Spleen Tissue Effects, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol. 22, br. 11, Article Number 5468.**

Opisano u prethodnom segmentu.

- **Antonijevic Djordje M, Despotovic Ana R, Biocanin Vladimir M, Milosevic Milos S, Trisic Dijana D, Lazovic Vladimir M, Zogovic Nevena S, Milasin Jelena M, Ilic Dragan V (2021) Influence of the addition of different radiopacifiers and bioactive nano-hydroxyapatite on physicochemical and biological properties of calcium silicate based endodontic ceramic, CERAMICS INTERNATIONAL, vol. 47, br. 20, str. 28913-28923.**

Cilj istraživanja bio je da se ispita uticaj različitih radiokontrastnih sredstava na fizičko-hemijska i biološka svojstva novih silikatnih cemenata za primenu u endodonciji, obogaćenih bioaktivnim nanočesticama hidroksiapatita. Stroncijum, cirkonijum-oksidi i bizmut-oksidi su ispitivani, uz kontrolne grupe, Portland cement i mineral trioksidi-agregat. Bizmut-oksidi su pokazali najveću kontrastnost, u odnosu na ostale ispitivane cemente. Najniža poroznost je uočena kod cirkonijum-oksida. Ekstrakti ispitivanih materijala nisu pokazali citotoksični efekat na A929 ćelijama. Proliferacija i adhezija ćelija apikalne papile zuba uočena je na SEM mikrofotografijama. Novosintetisani cementi pokazali su zadovoljavajuće biološke i fizičko-hemijske karakteristike u poređenju sa kontrolnim materijalima. Kraće vreme vezivanja ispitivanih materijala može predstavljati značajnu prednost u budućoj kliničkoj primeni.

- **Zmejkoski Danica Z, Zdravkovic Nemanja M, Trisic Dijana D, Budimir Milica D, Markovic Zoran M, Kozyrovska Natalia O, Todorovic-Markovic Biljana M (2021) Chronic wound dressings- Pathogenic bacteria anti-biofilm treatment with bacterial cellulose-chitosan polymer or bacterial cellulose-chitosan dots composite hydrogels, INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol. 191, str. 315-323.**

Opisano u prethodnom segmentu.

- **Zmejkoski Danica Z, Markovic Zoran MI, Mitic Dijana D, Zdravkovic Nemanja M, Kozyrovska Natalia O, Bugarova Nikol, Todorovic-Markovic Biljana M (2022) Antibacterial composite hydrogels of graphene quantum dots and bacterial cellulose accelerate wound healing, JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS, vol. 110, br. 8, str. 1796-1805.**

U ovoj studiji ispitivana je potencijalna primena novosintetisane celuloze koja je impregnirana kvantnim česticama grafena u zarastanju rana. Celuloza je impregnirana sa okvirno 11,7% kvantnih tačaka grafena. Oslobođanje kvantnih tačaka iz celuloze iznosila je 13%. Novi hydrogel pokazao se kao biokompatibilan pri ispitivanju na humanim fibroblastima, dok je pokazano antimikrobno inhibitorno dejstvo na *Stafilokokus aureus* i *Streptokokus agalaktie*, a baktericidno na *Methicillin*-rezistentnom *Stafilokokus aureus*-u, *Ešerihiji koli* i *Pseudomonas aeruginosi*. Značajna migracija fibroblasta je pokazana u prisustvu ispitivanih materijala, u odnosu na kontrolu. Nakon 72 h od izlaganja materijalu ekspresija gena, markera angiogeneze, su bili značajno pojačano eksprimirani u odnosu na kontrolni material. Svi dobijeni rezultati sugerisu potencijalnu uspešnu primenu ispitivanog materijala u zarastanju rana. Rad je označen kao jednog od najcitiranijih u časopisu za period 2022-2023. godina.

- **Milicic-Lazic Minja, Majeric Peter, Lazic Vojkan M, Milasin Jelena M, Jaksic Milica V, Trisic Dijana D, Radovic Katarina (2022) Experimental Investigation of the Biofunctional Properties of Nickel-Titanium Alloys Depending on the Type of Production, MOLECULES, vol. 27, br. 6, Article Number 1960.**

Cilj istraživanja bio je da se uporede mehanička i biofunktionalna svojstva niki-titanijumske legure proizvedene kontinuiranim livenjem, sa komercijalno dostupnom niki-titanijumskom legurom proizvedenom klasičnim postupkom. Analizom uzoraka nađena je veća zastupljenost niki u eksperimentalnoj leguri kao i veća tvrdoća u odnosu na komercijalnu. Nije nađeno značajno otpuštanje jona u veštačku pljuvačku kod oba materijala, dok je kisela sredina znatno podstakla oslobođanje jona u obe legure. Oslobođanje jona niki bilo je dvostruko niže, a titanijuma trostruko niže iz eksperimentalne legure, u odnosu na komercijalnu. Mitohondrijska aktivnost ćelija fibroblasta gingive nije se značajno razlikovala između grupa. Zaključak studije je da tehnologija kontinuiranog livenja nudi nove mogućnosti za proizvodnju niki-titanijumskih legura u stomatologiji. Navedeni rad je prizašao kao rezultat izrade doktorske disertacije dr Minje Milčić-Lazić.

- **Vukovic Mladen, Lazarevic Milos M, Mitic Dijana D, Jaksic-Karisik Milica, Ilic Branislav B, Andric Miroslav, Jevtic Bojan, Roganovic Jelena R, Milasin Jelena M (2022) Acetylsalicylic-acid (ASA) regulation of osteo/odontogenic differentiation and proliferation of human dental pulp stem cells (DPSCs) in vitro, ARCHIVES OF ORAL BIOLOGY, vol. 144, Article Number 105564.**

Cilj istraživanja bio je da se ispita uticaj acetilsalicilne kiseline na osteo/odontogenu diferencijaciju i proliferaciju matičnih ćelija pulpe i potencijalni uticaj signalnog puta adenzin monofosfatom aktivisane protein kinaze u toku navedenih procesa. Ispitana je citotoksičnost tri različite doze acetilsalicilne kiseline. Samo najjača doza (100 µg/ml) uzrokovala je smanjenje vijabilnosti ćelija (89%). Najniža primenjena doza (10 µg/ml) značajno je stimulisala osteo/odontogenu diferencijaciju što je potvrđeno kroz testove alizarin

crveno za bojenje vanćelijskog mineralnog matriksa, količinom sinteze alkalne fosfataze u ranim fazama osteo/odontogene diferencijacije i nivoim ekspresije gena, markera osteo/odontogene diferencijacije. Sama inhibicija ispitivanog signalnog puta dovela je do povećane ekspresije DSPP, OCN i RUNX2 gena, uz još značajniju ekspresiju u slučaju tretmana acetilsalicilnom kiselinom. Rad je nastao kao rezultat istraživanja tokom izrade doktorske disertacije dr Mladena Vukovića.

- **Jaksic-Karisik Milica, Lazarevic Milos M, Mitic Dijana D, Nikolic Nadja S, Milosevic-Markovic Maja, Jelovac Drago B, Milasin Jelena M (2023) Osteogenic and Adipogenic Differentiation Potential of Oral Cancer Stem Cells May Offer New Treatment Modalities, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol. 24, br. 5, Article Number 4704.**

Opisano u prethodnom segment.

- **Pierfelice Tania Vanessa, Lazarevic Milos M, Mitic Dijana D, Nikolic Nadja S, Radunovic Milena, Iezzi Giovanna, Piattelli Adriano, Milasin Jelena M (2023) Red Light and 5% Aminolaevulinic Acid (5%) Inhibit Proliferation and Migration of Dysplastic Oral Keratinocytes via ROS Production: An In Vitro Study, GELS, vol. 9, br. 8, Article Number 604.**

U navedenoj studiji ispitan je uticaj novo formulisanog gela koji sadrži 5% aminolevulinske kiseline u kombinaciji sa svetlom crvene boje u vidu fotodinamske terapije na ćelijsku liniju prekancerozne oralne mukoze (DOK). DOK su inkubirane sa rastućim koncentracijama gela u dva različita vremena i zatim ozračene svetlom iz crvenog spektra (25 J/cm^2). Tretman je delovao inhibišuće na proliferaciju i migraciju DOK ćelija stimulišući produkciju slobodnih radikala i izazivajući nekrozu. Takođe, došlo je do modulacije u ekspresiji gena, markera apoptoze. Nije primećena razlika između inkubacije ćelija u kraćem i dužem vremenskom period na pomenute rezultate. Inhibitorni efekat primenjenog protokola fotodinamske terapije ukazuje na potencijalni novi tretman oralnih prekanceroznih lezija. Rad je proizišao kao rezultat doktorske disertacije Tanie Vanesse Piefelice, gostujućeg doktoranta iz Italije.

- **Milicic-Lazic Minja, Mitic Dijana D, Radovic Katarina, Djordjevic Igor, Majeric Peter, Rudolf Rebeka, Grgur Branimir N (2024) Corrosion Behavior of Nickel-Titanium Continuous-Casted Alloys, METALS, vol. 14, br. 1, Article Number 88.**

Opisano u prethodnom segmentu.

- **Mitic Dijana D, Carkic Jelena, Jacimovic Jelena, Lazarevic Milos M, Jaksic-Karisik Milica, Toljic Bosko M, Milasin Jelena M (2024) The Impact of Nano-Hydroxyapatite Scaffold Enrichment on Bone Regeneration In Vivo-A Systematic Review, BIOMIMETICS, vol. 9, br. 7, Article Number 386.**

Opisano u prethodnom segmentu.

- **Majerič Peter, Miličić Lazić Minja, Mitic Dijana D, Lazić Marko, Krdžović Lazić Ema, Vastag Gyöngyi, Anžel Ivan, Lazić Vojkan, Rudolf Rebeka (2024) The Thermomechanical, Functional and Biocompatibility Properties of a Au–Pt–Ge Alloy for PFM Dental Restorations, MATERIALS, vol. 17, br. 22, Article Number 5491.**

Zlato, platina i germanijum u vidu legure porcelana na metalu je napravljena i ispitana u smislu funkcionalnosti i kliničke primene. Termomehanička svojstva, biokompatibilnost, dugotrajnost i isplativost ovih novih legura su ispitana. Rezultati ukazuju na nešto niža mehanička svojstva, te se ne preporučuje primena pomenute legure u izradi velikih protetskih radova. Razlog za nešto niža mehanička svojstva se pripisuju agregaciji germanijuma u strukturu legure zlata i platine. Polirani uzorci legure pokazali su odličnu biokompatibilnost, u odnosu na nepolirane. Takođe, otpuštanje jona iz legure bilo je zanemarljivo. Zaključak studije je da substructure protetskih nadoknada koje dolaze u dodir sa oralnim tkivom moraju biti visoko polirane. Legure porcelana na metalu pokazuju odličnu biokompatibilnost i neznatno otpuštanje jona metala što ih čini veoma pogodnim za primenu kod pacijenata alergičnih na metale.

4. Citiranost radova

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5. Kvalitativni pokazatelji naučno-istraživačkog rada

Analiza naučno-istraživačkog rada nakon izbora u zvanje naučni saradnik pokazala je da dr Dijana Mitić ispunjava i kvalitativne uslove za izbor u zvanje *viši naučni saradnik*.

Pokazatelji samostalnosti i uspeha u naučnom radu

Od početka karijere kandidat pokazuje samostalnost u naučno-istraživačkom radu, kao i izuzetne organizatorske sposobnosti, pronalaženje praktičnih rešenja za izvođenje eksperimenata kao i kreativnosti u načinu prezentovanja rezultata. Njeni dosadašnji rezultati predstavljaju značajan doprinos istraživanjima u oblasti koštane regeneracije i regeneracije mekih tkiva usne duplje, i kao takvi prepoznati su od strane međunarodne naučne zajednice o čemu svedoče podaci o citiranosti njenih publikacija.

Rukovođenje naučnim projektima, podprojektima i zadacima

Rukovođenje podprojektom: "Oral Cancer – New Approaches in Prevention, Control and Post-operative Regeneration – an *in vitro* study – ORCA-PCR" (broj projekta 7750038), finansiran od strane Fonda za nauku Republike Srbije, u okviru programa IDEJE. U okviru ORCA-PCR projekta dr Mitić je rukovodilac podprojekta radnog paketa 3: "Oral cancer post-treatment regeneration", glavni rukovodilac projekta prof. dr Jelena Milašin.

Rukovođenje projektnim zadatkom: "Hemijsko i strukturno dizajniranje nanomaterijala za primenu u medicini i inženjerstvu", ev. br. 1720126, iz programa Osnovnih istraživanja Ministarstva prosvete, nauke i tehnološkog razvoja. Rukovodilac istraživanja dr Vukoman Jokanović, naučni savetnik Instituta za nuklearne nauke Vinča. Dr Dijana Mitić rukovodila je istraživanjima vezanim za ispitivanje biokompatibilnosti i bioaktivnosti novostrukturisanih materijala na bazi hidroksiapatita u kulturi matičnih ćelija poreklom iz zuba. Ovo je podrazumevalo učestvovanje u kreiranju eksperimentalnih zadataka, kao i njihovom izvođenju, obradu dobijenih rezultata i pisanje naučnih radova vezanih za ovaj segment istraživanja.

Pedagoški rad

Kandidatkinja dr Dijana Mitić je od završetka svoje doktorske disertacije bila uključena u obučavanje i rad sa mlađim doktorantima, Milan Vuković i Minja Miličić-Lazić (zahvalnice u doktoratu), doktorant Milica Jakšić Karišik (disertacija još nije odbranjena).

Član komisije za odbranu master rada: Analiza prisustva onkogenih mikro RNK u egzozomima poreklom iz ćelija oralnog kancera. 15/61 - 13.06.2023., kandidat Zvezdana Ilić B1017/2022.

U skolskoj 2020/2021. godine učestvovala je u izvođenju praktične nastave na predmetu Opšta i oralna histologija sa embriologijom na integrisanim studijama Stomatološkog fakulteta, Univerziteta u Beogradu.

Ostalo

Predavanje po pozivu: "Ispitivanje biokompatibilnosti i bioaktivnosti materijala na ćelijskim kulturama izolovanim iz tkiva usne duplje" na III Radionici: „Antibakterijske plastike: uticaj bakterija i virusa na svakodnevni život“ u okviru radnog paketa 3: Ispitivanje antibakterijskih, antibiofuling, citotoksičnih osobina i enkrustacije, projekta *Photogun4microbes* finansiranog od strane Fonda za nauku RS, održanog od 28 - 29.05.2024. u Institutu za nuklearne nauke Vinča, Institut od nacionalnog značaja za RS, Univerzitet u Beogradu.

Nagrada za najbolje naučno ostvarenje nastavnika i saradnika univerziteta u beogradu za 2021. Godinu: Zadužbina Veselin Lučić dodelila je prvu nagradu naučnom radu "*Photoactive and antioxidant nanochitosan dots/biocellulose hydrogels for wound healing treatment*" autora: Zmejkoski Danica, Markovic Zoran, Budimir Milica, Zdravkovic Nemanja, **Trisic Dijana**, Bugarova Nikol, Danko Martin, Kozyrovskia Natalia, Spitalsky Zdeno, Kleinova Angela, Kuzman Sanja, Pavlovic Vladimir, Todorovic-Markovic Biljana, 2021, Materials Science & Engineering C-Materials For Biological Applications, 122, 111925.

Gostujući urednik: Biomimetic Approach to Dental Implants: 2nd Edition, Biomimetics, MDPI, Basel, April 2024. https://www.mdpi.com/journal/biomimetics/special_issues/61U1BXM8PZ

Recenzent u časopisima: Applied sciences, Bioengineering, Biomedicines, Coatings, Current issues in molecular biology, Diagnostics, International journal of molecular sciences, Journal of functional biomaterials, Lasers in medical science, Materials, Molecular Medicine Reports, Oncology Letters, Pediatric reports, Polycyclic aromatic compounds (<https://orcid.org/0000-0002-0650-8193>).

6. TABELA SA KVANTITATIVNOM OCENOM NAUČNIH REZULTATA

VIŠI NAUČNI SARADNIK	POTREBNO	OSTVARENO
UKUPNO	50	100,81
M10+M20+M31+M32+M33+M41+M42 +M90	40	91,51
M11+M12+M21+M22+M23	30	91,51

7. MIŠLJENJE I ZAKLJUČAK KOMISIJE

Tokom dosadašnjih istraživanja dr Dijana Mitić dala je značajan doprinos u oblasti ispitivanja materijala za regeneraciju mekih i čvrstih tkiva usne duplje, kao i drugih materijala za primenu u stomatologiji. Drugi pravac istraživanja vezan za karakterizaciju karcinomskih matičnih ćelija planocelularnog carcinoma i mogućnosti lečenja prekanceroznih i kanceroznih promena usne duplje prepoznati su kao važni i aktuelni pravci istraživanja. Kandidatkinja je na osnovu stečenog teorijskog znanja i eksperimentalnog iskustva pokazala sposobnost da samostalno planira i izvodi naučna istraživanja, kao i da učestvuje u razvoju mlađeg istraživačkog kadra.

Na osnovu detaljne analize naučno-istraživačkog rada dr Dijane Mitić i prikazanih naučnih publikacija, Komisija je došla do zaključka da kandidat u potpunosti ispunjava uslove za izbor u zvanje *viši naučni saradnik*. Predlažemo Nastavno-naučnom veću Stomatološkog fakulteta u Beogradu da prihvati ovaj Izveštaj i utvrdi predlog za izbor dr Dijane Mitić u zvanje **viši naučni saradnik** za oblast Medicinske nauke.

Komisija:

Prof. dr Miroslav Andrić
Stomatološki fakultet, Univerzitet u Beogradu, predsednik komisije

Prof. dr Vitomir Konstantinović
Stomatološki fakultet, Univerzitet u Beogradu

Prof. dr Dubravka Marković
Medicinski fakultet, Univerzitet u Novom Sadu