

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 Miloša Lazarevića** 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 Miloš Lazarević rođen je 31.08.1988. godine u Leskovcu, Srbija. Stomatološki fakultet Univerziteta u Beogradu upisao je školske 2007/08. godine, a diplomirao u januaru 2013. godine sa prosečnom ocenom 9,69. Pripravnički staž obavio je na Stomatološkom fakultetu u Beogradu, a stručni ispit položio 2014. godine. Doktorske studije na Stomatološkom fakultetu Univerziteta u Beogradu upisao je školske 2013/2014. godine na modulu “Ćelijski i molekularni mehanizmi patogeneze i terapije oralnih oboljenja”. Doktorsku disertaciju pod nazivom: “*In-vitro ispitivanje karakteristika matičnosti ćelija poreklom od oralnog planocelularnog karcinoma*” odbranio je 2019. godine na Stomatološkom fakultetu Univerziteta u Beogradu. Postupak za izbor u naučno zvanje naučni saradnik na sednici Nastavno naučnog veća Stomatološkog fakulteta u Beogradu pokrenut je **24.09.2019.** Zvanje naučni saradnik stekao je odlukom Komisije za sticanje naučnih zvanja na sednici održanoj **11.06.2020.** godine.

Od 2014. godine dr Miloš Lazarević je član Laboratorije za bazična istraživanja Stomatološkog fakulteta. Od 2017. do 2019. godine bio je angažovan na projektu: „Genetička kontrola i molekularni mehanizmi u malignim, inflamatornim i razvojnim patologijama orofacijalne regije“ (OI175075), koji je finansiran od strane Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije. Od januara 2020. godine zaposlen je u okviru godišnjih ugovora sa Ministarstvom prosvete, nauke i tehnološkog razvoja o realizaciji i finansiranju naučno-istraživačkog rada NIO (za 2022. godinu br. ugovora 451-03-68/2022-14/200129). 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.

Od 2018. godine učestvuje u izvođenju praktične nastave na predmetu Opšta i oralna patologija.

Dr Miloš Lazarević je do sada objavio 27 naučnih radova i imao 50 naučnih saopštenja. ORCID: 0000-0003-1330-5332.

Citiranost radova dr Miloša Lazarevića, za period od 1996 do 14.10.2024. je 282 (bez autocitata), h-index 9 (SCOPUS).

2. Analiza naučno-istraživačkog rada

Naučno-istraživački rad dr Miloša Lazarevića odnosi se na *in vitro* istraživanja u oblasti patologije orofacijalne regije i citologije.

Naučno istraživačkim radom dr Miloš Lazarević je počeo da se bavi u okviru nacionalnog naučnog projekta „Genetička kontrola i molekularni mehanizmi u malignim, inflamatornim i razvojnim patologijama orofacijalne regije“ (Ministarstvo prosvete, nauke i tehnološkog razvoja Republike Srbije, ev. br. OI 175075) i tokom izrade doktorske disertacije. Tokom izrade svoje doktorske disertacije dr Miloš Lazarević se bavio izolacijom, identifikacijom i karakterizacijom kancerskih matičnih ćelija oralnog planocelularnog karcinoma, sa posebnim osvrtom na tumorske margine na udaljenosti od 5 mm od ivice tumora. Nakon doktoriranja, stekao je bogato iskustvo u oblasti biomedicine, posebno u istraživanjima usmerenim na ćelijske i molekularne mehanizme različitih patoloških procesa. Njegova istraživanja obuhvataju proučavanje kancerogeneze, regeneracije tkiva i razvoja novih biomaterijala, s posebnim fokusom na primenu inovativnih terapijskih pristupa i naprednih tehnologija u medicini.

Kroz svoj rad, dr Lazarević je značajno doprineo razumevanju uloge nanočestica u terapiji karcinoma i regeneraciji tkiva. Ispitivao je antikancerogena svojstva različitih materijala, uključujući nanoamorfni kalcijum-fosfat i germanijum-dopovani hidroksiapatit, analizirajući njihov uticaj na ćelijsku proliferaciju, diferencijaciju i apoptozu. Njegova istraživanja su pokazala obećavajuće rezultate u razvoju novih strategija za lečenje tumora i regenerativne terapije. Dr Lazarević je takođe proučavao mogućnosti primene fotodinamičke terapije za tretman prekanceroznih lezija, gde je analizirao ključne molekularne mehanizme, poput produkcije reaktivnih kiseoničnih vrsta i regulacije apoptoze. Njegov rad u ovoj oblasti doprineo je boljem razumevanju potencijala ove metode u ranom tretmanu oralnih karcinoma. Pored toga, bavio se istraživanjem epitelno-mezenhimalne transformacije (EMT) u ćelijama oralnog skvamoznog ćelijskog karcinoma, što je važan aspekt razumevanja tumorske progresije i metastaziranja. Njegova istraživanja su ukazala na prisustvo EMT-a u tumorskim marginama, čime su pruženi novi uvidi u potencijalne uzroke recidiva tumora.

Rad dr Lazarevića uključuje i razvoj biomaterijala za regenerativnu medicinu. Posebno se bavio istraživanjem kolagenskih membrana dekorisanih hitosanom i nano-hidroksiapatitom, pri čemu je pokazano da ovi biomaterijali poseduju značajna osteogena i antimikrobna svojstva, što ih čini pogodnim za kliničku primenu.

Njegova istraživanja su objavljena u uglednim međunarodnim časopisima, a metodološka stručnost i multidisciplinarni pristup omogućili su mu da poveže fundamentalne naučne aspekte sa praktičnim rešenjima u medicini. Time je dao značajan doprinos unapređenju naučnih saznanja i razvoju inovativnih terapija koje imaju potencijal da poboljšaju kvalitet života pacijenata.

3. Bibliografija

Rezultati istraživanja u kojima je dr Miloš Lazarević do sada učestvovao publikovani su u ukupno 27 međunarodnih časopisa 17 radova u vrhunskim međunarodnim časopisima (M21), 5 rada u istaknutim međunarodnim časopisima (M22) i 5 radova u međunarodnim časopisima (M23).

Nakon pokretanja postupka za izbor u naučno zvanje naučni saradnik, dr Miloš Lazarević je publikovao ukupno 18 radova u međunarodnim časopisima (13 radova kategorije M21, 3 rada kategorije M22 i 2 rada kategorije M23). Kumulativni impakt faktor svih objavljenih radova iznosi 103,28; dok je kumulativni impakt faktor radova objavljenih u periodu nakon pokretanja postupka za izbor u naučnog saradnika 85,563. Pre pokretanja postupka za izbor u prethodno zvanje dr Miloš Lazarević je imao 15 kongresnih saopštenja, a nakon pokretanja postupka još 37.

RADOVI OBJAVLJENI PRE POKRETANJA POSTUPKA ZA IZBOR U ZVANJE NAUČNI SARADNIK

Odbranjena doktorska disertacija

Miloš Lazarević (2019) *In-vitro* ispitivanje karakteristika matičnosti ćelija poreklom od oralnog planocelularnog karcinoma. Stomatološki fakultet, Univerzitet u Beogradu.

Radovi u međunarodnim časopisima:

1. Dragovic Miroslav I, Pejovic Marko, Stepic Jelena, Colic Snjezana, Dozic Branko, Dragovic Svetlana, **Lazarevic Milos M**, Nikolic Nadja S, Milasin Jelena M, Milicic Biljana (2020) Comparison of four different suture materials in respect to oral wound healing, microbial colonization, tissue reaction and clinical features-randomized clinical study, CLINICAL ORAL INVESTIGATIONS, vol. 24, br. 4, str. 1527-1541. (Kategorija M21, IF 2020 = 3,573)
2. Simonovic Jelena M, Toljic Bosko M, Raskovic Bozidar S, Jovanovic Vladimir P, **Lazarevic Milos M**, Milosevic Maja, Nikolic Nadja S, Panajotovic Radmila, Milasin Jelena M (2019) Raman microspectroscopy: toward a better distinction and profiling of different populations of dental stem cells, CROATIAN MEDICAL JOURNAL, vol. 60, br. 2, str. 78-86. (Kategorija M22, IF 2018 = 1,624)
3. Baldan Federica, Allegri Lorenzo, **Lazarevic Milos M**, Catia Mio, Milosevic Maja, Damante Giuseppe, Milasin Jelena M (2019) Biological and molecular effects of bromodomain and extra-terminal (BET) inhibitors JQ1, IBET-151, and IBET-762 in

OSCC cells, JOURNAL OF ORAL PATHOLOGY & MEDICINE, vol. 48, br. 3, str. 214-221. (Категорија M21, IF 2019 = 2,495)

4. Kannosh Ibrahim Yousif, Staletovic Danijela, Toljic Bosko M, Radunovic Milena, Pucar Ana, Matic-Petrovic Sanja, Grubisa Ivana I, **Lazarevic Milos M**, Brkic Zlata, Knezevic-Vukcevic Jelena, Milasin Jelena M (2018) The presence of periopathogenic bacteria in subgingival and atherosclerotic plaques- An age related comparative analysis, JOURNAL OF INFECTION IN DEVELOPING COUNTRIES, vol. 12, br. 12, str. 1088-1095. (Категорија M23, IF 2016 = 1,353)
5. **Lazarevic Milos M**, Milosevic Maja, Trisic Dijana D, Toljic Bosko M, Simonovic Jelena M, Nikolic Nadja S, Mikovic Nikola, Jelovac Drago B, Petrovic Milan B, Vukadinovic Miroslav, Milasin Jelena M (2018) Putative cancer stem cells are present in surgical margins of oral squamous cell carcinoma, JOURNAL OF BUON, vol. 23, br. 6, str. 1686-1692. (Категорија M23, IF 2017 = 1,766)
6. Milosevic Maja, **Lazarevic Milos M**, Toljic Bosko M, Simonovic Jelena M, Trisic Dijana D, Nikolic Nadja S, Petrovic Milan B, Milasin Jelena M (2018) Characterization of stem-like cancer cells in basal cell carcinoma and its surgical margins, EXPERIMENTAL DERMATOLOGY, vol. 27, br. 10, str. 1160-1165. (Категорија M21, IF 2018 = 2,868)
7. Mancic Lidija T, Djukic-Vukovic Aleksandra P, Dinic Ivana Z, Nikolic Marko G, Rabasovic Mihailo D, Krmpot Aleksandar J, Costa Antonio MLM, Trisic Dijana D, **Lazarevic Milos M**, Mojovic Ljiljana V, Milosevic Olivera B (2018) NIR photo-driven upconversion in NaYF₄:Yb, Er/PLGA particles for in vitro bioimaging of cancer cells, MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol. 91, br. , str. 597-605. (Категорија M21, IF 2017 = 5,080)
8. Eljabo Najib, Nikolic Nadja S, Carkic Jelena, Jelovac Drago B, **Lazarevic Milos M**, Tanic Nasta, Milasin Jelena M (2018) Genetic and epigenetic alterations in the tumour, tumour margins, and normal buccal mucosa of patients with oral cancer, INTERNATIONAL JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY, vol. 47, br. 8, str. 976-982. (Категорија M21, IF 2017 = 2,164)
9. N. Mikovic N, **M. Lazarevic**, Z. Tatic, S. Trivic, M. Petrovic, A. Trivic. Radiographic cephalometry analysis of condylar position after bimaxillary osteotomy in patients with mandibular prognathism. VOJNOSANIT PREGL 73(4), 318-325, 2016. (Категорија M23, IF 2016 = 0,367).

Saopštenja sa međunarodnih skupova štampana u izvodu:

1. **Lazarevic M.**, Milosevic M., Petrovic S., V Petrovic N., Milovanovic B., Milasin J. The cytotoxic effect of eight different essential oils on squamous and basal cell carcinoma cells. The 10th International Symposium on Neurocardiology Neurocard Serbia, Belgrade 2018. Abstract book p 36.
2. Dinic I., Djukic-Vukovic A., Mojovic Lj., Costa A.M.L.M., Trisic D., **Lazarevic M.**, Milosevic O., Mancic L. Synthesis of Biocompatible Upconverting Nanoparticles for Non-

Specific Cell Labeling. 12th Conference For Young Scientists In Ceramics, OA-78, Serbia, Novi Sad 2017. Abstract book p 95.

3. Trisic D., **Lazarevic M.**, Milosevic M., Milosavljevic A., Simonovic J., Toljic B., Popovic B., Markovic D., Milasin 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 p 172.
4. Milosevic M., **Lazarevic M.**, Trisic D., Simonovic J., Toljic B., Petrovic M., Milasin J. The correlation between CD44 expression and spheres characteristics. 1st Congress of Molecular Biologists of Serbia, Belgrade 2017. Abstract book p 60.
5. Eljabo N., Nikolic N., Carkic J., **Lazarevic M.**, Jelovac D., Anicic B., Milasin J. P14 and p16 methylation in oral cancer. 1st Congress of Molecular Biologists of Serbia, Belgrade 2017. Abstract book p 123.
6. Trisic D., **Lazarevic M.**, Jokanovic V., Markovic D. Biostimulative effects of diode laser on stem cells from apical papilla (SCAP) in tissue engineering. The Third regional roundtable: Refractory, process industry, nanotechnologies and nanomedicine. Rosov Pinn, Serbia, Belgrade 2017. Abstract book p 103.
7. **Lazarevic M.**, Milosevic M., Gligorijevic T., Milovanovic B., Milasin J. The cytotoxic effect of different types of prograded placebo on squamous and basal cell carcinomas cells. The 7th International Symposium on Neurocardiology Neurocard Serbia, Belgrade 2016. Abstract book p 56.
8. Simonovic J., Toljic B., Milosevic M., Trisic D., **Lazarevic M.**, Nikolic N., Carkic J., Miljkovic D., Milasin J. High expression of neural markers in stem cells from tooth apical papilla following induction. 11th Balkan Congress of Human Genetics, Serbia, Belgrade, 2015. Abstract book p 28-29.
9. Trisic D., Toljic B., Milosevic M., Simonovic J., **Lazarevic M.**, Popovic B., Markovic D., Milasin J. Cells from apical papilla differently express mesenchymal stem cell markers depending on age and passage number. 11th Balkan Congress of Human Genetics, Serbia, Belgrade, 2015. Abstract book p 87.
10. 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, Croatia, Zagreb, 2015. Abstract book p 92-93.

Saopštenje sa skupa nacionalnog značaja štampano u izvodu

1. Milosevic M., **Lazarevic M.**, Petrovic M., Milasin J. Characterization of tumor and margin cells of basal cell carcinoma (*Serbian*). The 17th Serbian Dental Congress with International Participation, Serbia, Belgrade 2018. Abstract book p74.
2. **Lazarevic M.**, Milosevic M., Petrovic M., Milasin J. Sphere forming assay of oral cancer cells (*Serbian*). The 16th Serbian Dental Congress with International Participation, Serbia, Belgrade 2017. Abstract book p70.
3. Milosevic M., **Lazarevic M.**, Toljic B., Petrovic M., Milasin J. Migratory and proliferative potential of cancer stem cells of basal cell carcinoma (*Serbian*). The 16th Serbian Dental Congress with International Participation, Serbia, Belgrade 2017. Abstract book p71.
4. **Lazarevic M.** The effect of freezing oral squamous cell carcinoma on the cell viability of primary cultures (*Serbian*). The 67th anniversary of School of Dental Medicine University of Belgrade, Serbia, Belgrade 2015. Abstract book p18.
5. Simonovic J., Toljic B., Milosevic M., Trisic D., **Lazarevic M.**, Carkic J., Milasin J. Isolation and characterization of stem cells from apical papilla of impacted third molar (*Serbian*). The 67th anniversary of School of Dental Medicine, University of Belgrade, Serbia, Belgrade 2015. Abstract book p21.

RADOVI OBJAVLJENI NAKON POKRETANJA POSTUPKA ZA IZBOR U ZVANJE
NAUČNI SARADNIK

M21 (8 bodova)

$$(8/(1+0.2*(10-7)=5)$$

1. Vlajic-Tovilovic Tamara, Petrovic Sanja, **Lazarevic Milos M**, Pavic Aleksandar B, Plackic Nikola, Milovanovic Aleksa Lj, Milosevic Milos S, Miletic Vesna, Veljovic Djordje N, Radunovic Milena (2024) Effect of Acetylsalicylic Acid on Biological Properties of Novel Cement Based on Calcium Phosphate Doped with Ions of Strontium, Copper, and Zinc, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol. 25, br. 14, Article Number 7940.

(Kategorija M21, IF 2022 = 5,6)

(8)

2. Herendija Evelina, Jaksic-Karisik Milica, Milasin Jelena M, **Lazarevic Milos M**, Ignjatovic Nenad L (2024) Anti-Cancer Activities of Nano Amorphous Calcium Phosphates toward Premalignant and Oral Cancer Cells, BIOMEDICINES, vol. 12, br. 7, Article Number 1499.

(Kategorija M21, IF 2022 = 4,7)

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3. 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 2022 = 4,5)

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

4. **Lazarevic Milos M**, Ignjatovic Nenad L, Mahlet Qene, Bumah Violet V, Radunovic Milena, Milasin Jelena M, Uskokovic Dragan P, Uskokovic Vuk (2024) Biocompatible Germanium-Doped Hydroxyapatite Nanoparticles for Promoting Osteogenic Differentiation and Antimicrobial Activity, ACS APPLIED NANO MATERIALS, vol. 7, br. 8, str. 8580-8592.

(Kategorija M21, IF 2022 = 5,9)

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

5. 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.

(Kategorija M21, IF 2023 = 5,0)

(8)

6. **Lazarevic Milos M**, Petrovic Sanja, Pierfelice Tania Vanessa, Ignjatovic Nenad L, Piattelli Adriano, Vlajic-Tovilovic Tamara, Radunovic Milena (2023) Antimicrobial and Osteogenic Effects of Collagen Membrane Decorated with Chitosan-Nano-Hydroxyapatite, BIOMOLECULES, vol. 13, br. 4, Article Number 579.
(Категорија M21, IF 2021 = 6,064)

(8)

7. 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. (Категорија M21, IF 2021 = 6,208)

(8/(1+0.2*(9-7))=5,71)

8. Ilic Jugoslav M, Milosavljevic Aleksandra, **Lazarevic Milos M**, Milosevic-Markovic Maja, Milasin Jelena M, Vucetic Milan, Chaurasia Akhilanand, Miletic Vesna, Roganovic Jelena R (2023) Melatonin Mitigates iNOS-Related Effects of HEMA and Camphorquinone in Human Dental Pulp Cells: Relevance for Postoperative Sensitivity Mechanism in Type 2 Diabetes, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol. 24, br. 3, Article Number 2562. (Категорија M21, IF 2021 = 6,208)

(8/(1+0.2*(9-7))=5,71)

9. Milosevic-Markovic Maja, Latas Milan B, Milovanovic Srdjan D, Totic-Poznanovic Sanja D, **Lazarevic Milos M**, Jaksic-Karisik Milica, Djordjevic Jana, Mandinic Zoran, Jovanovic Svetlana (2022) Mental Health and Quality of Life among Dental Students during COVID-19 Pandemic: A Cross-Sectional Study, INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH, vol. 19, br. 21, Article Number 14061.
(Категорија M21, IF 2021 = 4,614)

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

10. Simonovic Jelena M, Toljic Bosko M, **Lazarevic Milos M**, Milosevic-Markovic Maja, Peric Mina I, Vujin Jasna M, Panajotovic Radmila, Milasin Jelena M (2022) The Effect of Liquid-Phase Exfoliated Graphene Film on Neurodifferentiation of Stem Cells from Apical Papilla, NANOMATERIALS, vol. 12, br. 18, Article Number 3116.
(Категорија M21, IF 2021 = 5,719)

(8/(1+0.2*(9-7))=5,71)

11. Ivanovic Vera, Popovic Danica, Petrovic Sanja, Rudolf Rebeka, Majeric Peter, **Lazarevic Milos M**, Djordjevic Igor, Lazic Vojkan M, Radunovic Milena (2022) Unraveling the Antibiofilm Activity of a New Nanogold Resin for Dentures and Epithesis, PHARMACEUTICS, vol. 14, br. 7, Article Number 1513.
(Категорија M21, IF 2021 = 6,525)

(8/(1+0.2*(10-7))=5)

12. Milosevic Maja, **Lazarevic Milos M**, Toljic Bosko M, Petrovic Milan B, Vukadinovic Miroslav, Jezdic Zoran, Anicic Boban, Jelovac Drago B, Jovanovic Svetlana, Milasin

Jelena M (2021) Basal cell carcinoma stem cells exhibit osteogenic and chondrogenic differentiation potential, BIOCELL, vol. 45, br. 6, str. 1543-1550.

(Категорија M22, IF 2019 = 2,821)

(8/(1+0.2*(13-7)=3,64)

13. Ignjatovic Nenad L, Mancic Lidija T, Vukovic Marina N, Stojanovic Zoran S, Nikolic Marko G, Skapin Sreco Davor, Jovanovic Sonja, Veselinovic Ljiljana M, Uskokovic Vuk, Lazic Snezana, Markovic Smilja B, **Lazarevic Milos M**, Uskokovic Dragan P (2019) Rare-earth (Gd³⁺, Yb³⁺/Tm³⁺, Eu³⁺) co-doped hydroxyapatite as magnetic, up-conversion and down-conversion materials for multimodal imaging, SCIENTIFIC REPORTS, vol. 9, br., Article Number 16305.

(Категорија M21, IF 2017 = 4,122)

M22 (5 bodova)

(5/(1+0.2*(9-7)=3,57)

1. Baldan F, Gnan C, **Lazarevic Milos M**, Nikolic Nadja S, Mio C, Tepavcevic Zvezdana B, Robiony M, Milasin Jelena M, Damante Giuseppe (2023) Somatic genomic imbalances in 'tumour-free' surgical margins of oral cancer, INTERNATIONAL JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY, vol. 52, br. 8, str. 831-838.

(Категорија M22, IF 2021 = 2,986)

(5/(1+0.2*(9-7)=3,57)

2. 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.

(Категорија M22, IF 2022 = 3,0)

(5)

3. Lazic Marko, Milicic-Lazic Minja, Jaksic-Karisik Milica, **Lazarevic Milos M**, Jug Andraz, Anzel Ivan, Milasin Jelena M (2022) Biocompatibility Study of a Cu-Al-Ni Rod Obtained by Continuous Casting, PROCESSES, vol. 10, br. 8, Article Number 1507.

(Категорија M22, IF 2022 = 3,5)

M23 (3 boda)

(3)

1. Carkic Jelena, Nikolic Nadja S, Nisevic Jelena, **Lazarevic Milos M**, Kuzmanovic-Pficer Jovana M, Jelovac Drago B, Milasin Jelena M (2020) Endothelial nitric oxide synthase polymorphisms/haplotypes are strong modulators of oral cancer risk in Serbian population, JOURNAL OF ORAL SCIENCE, vol. 62, br. 3, str. 322-326.

(Категорија M23, IF 2020 = 1,556)

$$(3/(1+0.2*(12-7)=1,5)$$

2. **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.
(Kategorija M23, IF 2020 = 2,967)

Predavanje po pozivu M32 (1,5 bodova)

(1,5)

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(16*0,5=8)

1. Milosevic Maja, **Lazarevic Milos M**, Trisic Dijana, Najib Eljabo, Petrovic Milan, Milasin Jelena. (2019). The expression of Hedgehog pathway genes in cancer stem cells of basal cell carcinoma. The 6th Congress of Serbian Genetic Society. Abstract book p 95.
2. **Lazarević Milos M.**, Trišić, D. D., & Milošević, M. S. (2019). Gene expression analysis of epithelial to mesenchymal transition markers in oral cancer and its margins. The 6th Congress of Serbian Genetic Society. Abstract book p 99.
3. Trišić, Dijana, Čarkić Jelena, **Lazarević Miloš M**, Milošević Maja, Milašin Jelena, & Jokanović Vukoman. (2019). 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. The 6th Congress of the Serbian Genetic Society. Abstract book p 101.
4. Pavlovic O, Skoro N, **Lazarevic Milos M**, Petrovic A, Mojsilovic S, Pauc N, Miletic M. (2021). Insight into anti-tumor mechanism of non-thermal atmospheric pressure plasma in oral squamous cell carcinoma. 7th international workshop on plasma for cancer treatment IWPCT 2021. Abstract book p NA.
5. Radunovic Milena, Ivanovic Vera, Petrovic Sanja, Popovic Danica, Djordjevic Igor, **Lazarevic Milos M**, Rudolf Rebeka, Majeric Peter, Lazic Vojkan. (2022). Antimicrobial properties of a new nanogold resin for dentures and epithesis. International Conference EUREKA GOLD-GER E!17091. Abstract book p 6.
6. Lazic Marko, Lazic Milicic Minja, Karisik Jaksic Milica, **Lazarevic Milos M**, Jug Andraz, Milasin Jelena. (2022). Biocompatibility study of a Cu-AL-Ni rod obtained by continuous casting. International Conference EUREKA GOLD-GER E!17091. Abstract book p 7.

7. Markovic Milosevic Maja, Simonovic Jelena, **Lazarevic Milos M**, Toljic Bosko, Milasin Jelena. (2022). Osteogenic potential of graphene in regenerative dentistry. CNN Tech International conference of experimental and numerical investigations and new technologies. Abstract book p 71.
8. **Lazarevic Milos M**, Jaksic Karisik Milica, Markovic Milosevic Maja, Milasin Jelena, Jokanovic Vukoman. (2022). Porous hydroxyapatite alginate and cellulose scaffolds effects on osteo and chondro differentiation of dental pulp stem cells. CNN Tech International conference of experimental and numerical investigations and new technologies. Abstract book p 74.
9. Jakovljevic Aleksandar, Jaksic Karisik Milica, **Lazarevic Milos M**, Mitic Dijana, Milasin Jelena. (2024). Graphene Oxide's Therapeutic Potential: Targeting Oral Cancer Stem Cells. 28th Congress of the Balkan Stomatological Society, April 25 -27, Montenegro, Budva. Abstract book p 124.
10. Pantović Pavlović Marijana R., Herendija Evelina A., **Lazarević Miloš M.**, Ignjatović Nenad L., Pavlović Miroslav M. (2024). Efficacy of Novel Hybrid Coating on Titanium Substrates in Targeting Cancerous Cells. XXV YUCORR – International Conference. Meeting point of the science and practice in the fields of corrosion, materials and environmental protection. Abstract book p 106.
11. D. Mitic, M. **Lazarevic, M. Milos**, Jaksic Karisik1, J. Milasin. Lactobacillus salivarius as an Adjuvant to Antitumor Effect of Paclitaxel on Oral Squamous Cell Carcinoma. Molecular Oncology 18 (Suppl. 1) (2024) 1–495. Abstract book p149.
12. **Lazarevic M. Milos**, M. Karisik Jaksic, D. Mitic, J. Milasin. Effect of BET inhibitors on oral squamouscell carcinoma cell line and its' CD44positive subpopulation. Molecular Oncology 18 (Suppl. 1) (2024) 1–495. Abstract book p158.
13. Tamara Vlajić Tovilović, **Lazarević Miloš M**, Dijana Trišić, Milica Jakšić, Nađa Nikolić, Jelena Čarkić, Milena Radunović, Sanja Petrović, Jelena Milašin. (2024). Effects of Lactobacillus salivarius on AKT/mTOR and Notch Pathway Gene Expression in Dysplastic Oral Keratinocytes. 7th congress of the Serbian genetic society, 2-4 October, Zlatibor, Serbia. Abstact book p 74.
14. Jaksic Karisik Milica, **Lazarevic Milos M**, Mitic Dijana, Milosevic Markovic Maja, Milasin Jelena. (2024). MicroRNA-21 as a key regulator of cancer stem cells properties in oscc. 7th Congress of the Serbian genetic society, 2-4 October, Zlatibor, Serbia. Abstact book p 148.
15. **Lazarevic Milos M**, Milica Jaksic Karisik, Dijana Trisic, Jelena Milasin. (2024). BET inhibitor JQ1 induces apoptosis in cancer stem cells. 7th Congress of the Serbian genetic society, 2-4 October, Zlatibor, Serbia. Abstact book p 149.
16. T. Romasco, **Lazarević Milos M.**, J. Milašin, M. Radunović, N. Gallo, L. Salvatore, G. Marchioli, A. Piattelli, N. Di Pietro. (2024) Biocompatible type I collagen-coated dental implant surfaces: *in vitro* osteoinduction potential on stem cells from the apical papilla (SCAPs). 7th Congress of the Serbian genetic society, 2-4 October, Zlatibor, Serbia. Abstact book p 151.

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(0,2*21=4,2)

1. Trišić, D. D., **Lazarevic Milos M**, Milošević, M. S., Dejan Marković. (2019). Primena fotodinamske terapije u endodontskom lečenju primarnih infekcija kanala korenova mladih stalnih zuba. 18. Kongres Stomatologa Srbije. Beograd. Abstract book p29.
2. Milošević, M. S., Igor Đorđević, , **Lazarevic Milos M**, , Trišić, D. D., Milan Petrović, , & Svetlana Jovanović. (2019). Kvalitet života pacijenata obolelih od oralnog skvamocelularnog karcinoma nakon operacije i protetske rehabilitacije. 18. Kongres Stomatologa Srbije. Beograd. Abstract book p42.
3. **Lazarevic Milos M.**, Jaksic, M., Mitic, D. T., Milosevic, M., & Jelena Milasin. (2020). Efekat BET inhibitora na ćelije oralnog karcinoma. 19. Kongres Stomatologa Srbije. Abstract book p 127.
4. Jaksic, M., Mitic, D. T., **Lazarevic Milos M.**, Milosevic, M., & Jelena Milasin. (2020). Uticaj egzozoma poreklom iz matičnih ćelija pulpe zuba na kancerske ćelije planocelularnog karcinoma. 19. Kongres Stomatologa Srbije. Abstract book p 129.
5. Mitic, D. T., **Lazarevic Milos M.**, Jaksic, M., Milosevic, M., & Jelena Milasin, . (2020). Potencijal regeneracije matičnih ćelija poreklom iz tkiva apikalne papile (SCAP). 19. Kongres Stomatologa Srbije. Abstract book p 128.
6. Milosevic, M., Mitic, D. T., **Lazarevic Milos M.**, Jaksic, M., & Jovanovic, S. (2020). Znanje, stavovi i ponašanje studenata stomatologije u vezi sa pušenjem. 19. Kongres Stomatologa Srbije. Abstract book p 99.
7. Simic, N., Jaksic, M., Mitic, D. T., **Lazarevic Milos M**, Cvetkovic, D., & Jelena Milasin. (2020). Analysis of notch signaling pathway gene expression in oral cancer cells treated with exosomes from mesenchymal stem cells. IV Symposium of Biologists and Ecologists of Republic of Srpska. Abstract book p 76.
8. Jaksic Karisik Milica, **Lazarevic Milos M**, Toljic Bosko, Milosevic Markovic Maja, Milasin Jelena. (2021). Prisustvo kancerskih maticnih celija unutar heterogene tumorske populacije. 20. Kongres Stomatologa Srbije. Abstract book p 101.
9. Milosevic Markovic Maja, **Lazarevic Milos M**, Jaksic Karisik Milica, Petrovic Milan, Jovanovic Svetlana. (2021). Merenje kvaliteta zivota pacijenata sa oralnim karcinomom u klinickoj praksi 20. Kongres Stomatologa Srbije. Abstract book p 106.
10. Milosevic Markovic Maja, **Lazarevic Milos M**, Jaksic Karisik Milica, Dozic Branko, Milovanovic Branislav, Petrovic Nada, Petrovic Slobodan, Milasin Jelena. (2021). Thymus serpyllum and mentha piperita essential oils affect shh and notch signaling pathways in basal cell carcinoma in vitro. 2nd Congress of genetics in BiH with International Participation. Abstract book p 52.
11. Jaksic, M. K., **Lazarevic Milos M.**, Mitic, D. T., Markovic, M. M., & Jelena Milasin, . (2021). The effect of osteogenic differentiation on oral cancer stem cells' miR-21 and miR-133 expression. 5th Congress of SDIR: Translational Potential of Cancer Research in Serbia. Abstract book p 34.
12. **Lazarevic Milos M**, Milosevic M, Jaksic M, Pecinar I, Milasin J. (2021). The use of Raman microspectroscopy for characterization of tumor and tumor margin cell

populations. Photonica 2021 VIII International School and Conference on Photonics. Abstract book p 110.

13. Rabasović, M. D., Dinić, I., Đukić Vuković, A., **Lazarević Milos M.**, Nikolić, M. G., Krmpot, A., & Mančić, L. (2021). Nonlinear laser scanning microscopy for imaging of the cells labeled by upconverting NaYF₄:Yb,Er nanoparticles. Program and the Book of Abstracts / Serbian Ceramic Society Conference Advanced Ceramics and Application IX : New Frontiers in Multifunctional Material Science and Processing, Serbia, Belgrade, 20-21. September 2021, 2021, 36-36. Belgrade : Serbian Ceramic Society. Abstract book p 35.
14. Milasin Jelena, Toljic Bosko, Simonovic Jelena, Milosevic Maja, **Lazarevic Milos M**, Vujin Jasna, Peric Mina, Panajotovic Radmila. (2022). Neuroinductive effects of graphene film on dental stem cells. RBC Regional Biophysic Conference. Poster number P41.
15. Milosevic Markovic Maja, Latas Milan, Milovanovic Srdjan, **Lazarevic Milos M**, Jaksic Karisik Milica, Jovanovic Svetlana. (2022). Mental Health and quality of life among dental students during the COVID-19 Pandemic. The 1st world conference fighting COVID19 pandemic helath challenges. Abstract book p 341.
16. **Lazarevic Milos M**, Stanic Ivan, Jaksic Karisik Milica, Dragovic Miroslav, Milicic Biljana, Tepavcevic Zvezdana. (2022). Assessing tumor budding as a potential histopathological prognostic marker of oral cancer. Materia medica. 17th national congress of Serbian pathologists and cytologists' association with international participation. Abstract book p 55.
17. Mitic, D. T., **Lazarevic Milos M.**, Jaksic, M. K., & Jelena Milasin. (2023). Effect of BET inhibitors on cancer stem cells sorted from primary oral cancer cell culture. Sixth Congress of the Serbian Association for Cancer Research with International Participation. Abstract book p 85.
18. **Lazarevic Milos M.**, Mitic, D. T., Tovilovic, V. T., Carkic, J., Nikolic, N., & Jelena Milasin. (2023). The Effect of Lactobacillus Salivarius on Akt-mTOR Signaling Pathway in normal, dysplastic, and Oral Cancer cell Co-cultures. Sixth Congress of the Serbian Association for Cancer Research with International Participation. Abstract book p 93.
19. Miletić, M., Pavlović, O., Škoro, N., **Lazarević Milos M.**, Jakovljević, A., Mojsilović, S., & Puač, N. (2023). Modulating chemosensitivity of oral carcinoma to Cisplatin by combination with plasma activated medium on 3D cell models. 2nd Annual Meeting of COST Action CA20114 PlasTHER "Therapeutical Applications of Cold Plasmas", 4-7 September 2023, Bologna, Italy. Abstract book p 82.
20. Mitic, D. T., **Lazarevic Milos M.**, Jaksic, M. K., Jelena Milasin. (2023). Exosomal micrnas derived from oral premalignant (dok) and malignant (scc-25) cell lines. 14th Balkan Congress of Human Genetics & 9th Rare Disease SEE Meeting. Abstract book p 104.
21. **Lazarević Milos M.**, Ignjatović, N., Uskoković, D., & Uskoković, V. (2023). The osteogenic effect of Germanium-doped hydroxyapatite nanoparticles on dental pulp stem cells. Program and the Book of Abstracts / Serbian Ceramic Society Conference Advanced Ceramics and Application XI New Frontiers in Multifunctional Material Science and

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

1. Herendija Evelina, Jaksic-Karisik Milica, Milasin Jelena M, **Lazarevic Milos M**, Ignjatovic Nenad L (2024) Anti-Cancer Activities of Nano Amorphous Calcium Phosphates toward Premalignant and Oral Cancer Cells, BIOMEDICINES, vol. 12, br. 7, Article Number 1499. (Kategorija M21, IF 2022 = 4,7)

Rad se bavi istraživanjem nanoamornog kalcijum-fosfata (nACP) i njegovih potencijalnih antikancerogenih svojstava. Cilj studije je bio sinteza i karakterizacija nACP čestica i ispitivanje njihovih citotoksičnih efekata na premaligne i maligne ćelije oralnog skvamoznog ćelijskog karcinoma (OSCC). Rezultati su pokazali da nACP utiče na adheziju, invaziju i održivost ćelija, te izaziva smrt ćelija putem apoptoze. Takođe, visoke koncentracije nACP zaustavljaju ćelijski ciklus u G0/G1 fazi, što sugerise da bi nACP mogao biti potencijalni agens za lečenje oralnog karcinoma

Doprinos kandidata: dr Miloš Lazarević je imao veliku ulogu u izvođenju eksperimentalnog dela studije koja se bavila ispitivanjem citotoksičnih efekata nanoamornog kalcijum-fosfata (nACP) na premaligne i maligne ćelije oralnog skvamoznog ćelijskog karcinoma (OSCC). Aktivno je učestvovao u kultivaciji ćelija, optimizaciji uslova za tretman ćelija nACP-om, kao i u analizi rezultata kroz tehnike poput analize adhezije, MTT testa vijabilnosti ćelija, i procene apoptoze korišćenjem *Annexin V* testa protočnom citometrijom. Takođe, nadgledao je eksperimente u različitim vremenskim tačkama i kvantifikovao ćelijsku smrt, što je omogućilo uvid u dozno-zavisni odgovor ćelija na tretman nACP-om. Pored eksperimentalnog rada, dr Miloš Lazarević je učestvovao i u pisanju naučnog rada, gde je dao značajan doprinos obradi i analizi podataka. Njegova uloga obuhvatala je interpretaciju rezultata i diskusiju o mogućim mehanizmima delovanja nACP-a na ćelije oralnog karcinoma, kao i doprinos u formulisanju zaključaka koji ukazuju na potencijal nACP-a kao terapijskog agensa u lečenju oralnog karcinoma. Ovaj doprinos istraživanju i pisanju omogućio je napredak u razumevanju mogućnosti primene ovih nanočestica u terapiji kancera. Takođe, u radu je naznačen kao jedan od autora za korespondenciju.

2. **Lazarevic Milos M**, Ignjatovic Nenad L, Mahlet Qene, Bumah Violet V, Radunovic Milena, Milasin Jelena M, Uskokovic Dragan P, Uskokovic Vuk (2024) Biocompatible Germanium-Doped Hydroxyapatite Nanoparticles for Promoting Osteogenic Differentiation and Antimicrobial Activity, ACS APPLIED NANO MATERIALS, vol. 7, br. 8, str. 8580-8592. (Категорија M21, IF 2022 = 5,9)

Rad se bavi ispitivanjem biokompatibilnih nanočestica hidroksiapatita dopiranih germanijumom (Ge-HAp) i njihovim potencijalom u podsticanju osteogene diferencijacije dentalnih matičnih ćelija (DPSCs) i antimikrobnom aktivnošću. Studija istražuje citotoksičnost, sposobnost indukcije osteogene diferencijacije i formiranja kolonija DPSCs, kao i antimikrobna svojstva ovih nanočestica protiv bakterija *Staphylococcus aureus* (MRSA), *Escherichia coli*, i gljive *Candida albicans*. Rezultati pokazuju da Ge-HAp značajno poboljšava formiranje mineralizovanih nodula i ekspresiju osteogenih markera u DPSCs u poređenju sa čistim hidroksiapatitom (HAp). Takođe, Ge-HAp ispoljava snažnu antifungalnu aktivnost protiv *Candida albicans*, dok je antibakterijska aktivnost slabija, posebno protiv MRSA. Zaključeno je da Ge-HAp nanočestice imaju potencijal za primenu u regenerativnoj medicini zbog svojih osteoinduktivnih i antimikrobnih svojstava.

Doprinos kandidata: Dr Miloš Lazarević je bio ključan u istraživanju biokompatibilnih nanočestica hidroksiapatita dopovanih germanijumom (Ge-HAp) i njihovog potencijala u podsticanju osteogene diferencijacije. U okviru ovog rada, dr Lazarević je bio zadužen za eksperimentalnu analizu efekata Ge-HAp nanočestica na održivost, diferencijaciju i formiranje kolonija dentalnih matičnih ćelija (DPSCs). U eksperimentalnom delu, dr Lazarević je aktivno učestvovao u kultivaciji ćelija, tretiranju DPSCs nanočesticama Ge-HAp i sprovođenju testova održivosti ćelija (*MTT assay*), gde je kvantifikovao uticaj različitih koncentracija nanočestica na ćelijsku vijabilnost. Takođe je učestvovao u analizama osteogene diferencijacije korišćenjem alizarin crvenog bojenja za mineralizaciju, kao i u kvantifikaciji ekspresije gena za osteogenezu (ALP, RUNX2, OCN) pomoću RT-qPCR metode. Njegov doprinos bio je ključan u otkrivanju da Ge-HAp značajno poboljšava osteoinduktivne osobine u poređenju sa čistim HAp. Dr Lazarević je takođe doprineo pisanju naučnog rada, analizirajući rezultate i diskutovao o potencijalnoj primeni Ge-HAp nanočestica u regenerativnoj medicini zbog njihove biokompatibilnosti, osteoinduktivnosti i antimikrobnih svojstava.

3. 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. (Kategorija M21, IF 2023 = 5,0)

Rad se bavi istraživanjem fotodinamičke terapije (PDT) koja koristi 5-aminolevulinsku kiselinu (5-ALA) u kombinaciji sa crvenim svetlom (ALAD-PDT) za inhibiciju proliferacije i migracije displastičnih oralnih keratinocita (DOK). Displastični oralni keratinociti su ćelije koje su povezane sa prekanceroznim lezijama u usnoj šupljini, koje, ukoliko se ne leče, mogu napredovati u oralni karcinom. Studija je pokazala da tretman ALAD-PDT izaziva smrt ćelija putem produkcije reaktivnih kiseoničnih vrsta (ROS) i indukuje nekrozu. Istraživanje je uključivalo testove citotoksičnosti, migracije, i ekspresiju gena povezanih sa apoptozom (TP53, Bcl-2, Survivin, Caspase-3 i Caspase-9). Rezultati su pokazali da ALAD-PDT značajno smanjuje proliferaciju i migraciju DOK ćelija, pri čemu je nekroza bila dominantan oblik ćelijske smrti. Rad zaključuje da ALAD-PDT ima potencijal kao nekonvencionalna terapija za lečenje prekanceroznih lezija u usnoj šupljini.

Doprinos kandidata: Dr Miloš Lazarević je bio značajan u eksperimentalnom delu ovog istraživanja, koje se fokusiralo na fotodinamičku terapiju (PDT) korišćenjem 5-aminolevulinske kiseline (5-ALA) u kombinaciji sa crvenim svetlom (ALAD-PDT). Njegova uloga obuhvatala je kultivaciju displastičnih oralnih keratinocita (DOK), optimizaciju tretmana ćelija sa različitim koncentracijama ALAD gela, kao i izvođenje testova održivosti ćelija putem MTT testa, analize migracije ćelija (*Wound healing assay*), i merenja produkcije reaktivnih kiseoničnih vrsta (ROS). Dr Lazarević je takođe bio uključen u analizu i interpretaciju rezultata, posebno u kontekstu citotoksičnih efekata PDT tretmana, te u analizu ekspresije gena vezanih za apoptozu (TP53, Bcl-2, Caspase-3, Caspase-9, i Survivin). Njegov doprinos u radu bio je značajan i u pisanju naučnog rada, gde je doprineo razumevanju mehanizama ćelijske smrti izazvanih ROS produkcijom i nekrozom.

4. **Lazarevic Milos M**, Petrovic Sanja, Pierfelice Tania Vanessa, Ignjatovic Nenad L, Piattelli Adriano, Vlajic-Tovilovic Tamara, Radunovic Milena (2023) Antimicrobial and Osteogenic Effects of Collagen Membrane Decorated with Chitosan-Nano-

Ovaj rad istražuje antimikrobna i osteogena svojstva kolagenske membrane dekorisane hitosanom (CHI) i nano-hidroksiapatitom (HApNP). Kolagenske membrane se široko koriste u oralnoj hirurgiji za regeneraciju kostiju, ali njihova ranjivost na bakterijske infekcije može kompromitovati uspeh zahvata. Cilj istraživanja bio je proceniti biokompatibilnost, osteogeni potencijal i antibakterijsku aktivnost ovih modifikovanih membrana. Studija je pokazala da dekorisane membrane ne izazivaju citotoksičnost u dentalnim matičnim ćelijama (DPSCs) i značajno poboljšavaju osteogenu diferencijaciju. Aktivnost alkalne fosfataze (ALP), kao i ekspresija gena povezanih sa osteogenezom (BMP4, ALP, RUNX2, i OCN) bila je povećana na modifikovanim membranama u poređenju sa nemodifikovanim membranama. Pored toga, dekorisane membrane pokazale su značajnu antibakterijsku aktivnost ka oralnim patogenima kao što su *Streptococcus mitis*, *Porphyromonas gingivalis*, i *Fusobacterium nucleatum*. Zaključak rada je da kombinacija hitosana i nano-hidroksiapatita poboljšava osteogeni potencijal kolagenskih membrana, dok istovremeno smanjuje bakterijsku kolonizaciju, čime se povećava efikasnost u vođenoj regeneraciji kostiju.

Doprinos kandidata: Dr Miloš Lazarević dao je značajan doprinos ovom istraživanju, posebno u eksperimentalnom delu. Njegova uloga uključivala je kultivaciju dentalnih matičnih ćelija (DPSCs), analizu biokompatibilnosti kolagenskih membrana dekorisanih hitosanom (CHI) i nano-hidroksiapatitom (HApNPs), i sprovođenje testova održivosti ćelija korišćenjem MTT testa. Takođe, bio je odgovoran za analizu osteogenih markera, kao što su BMP4, ALP, RUNX2 i OCN, pomoću RT-qPCR metode, kao i za procenu aktivnosti alkalne fosfataze (ALP) tokom osteogene diferencijacije. Njegov doprinos bio je ključan u kvantifikaciji i interpretaciji podataka, čime je pomogao u zaključivanju o superiornosti modifikovanih membrana u odnosu na nemodifikovane, kako u osteogenim, tako i u antimikrobnim svojstvima. Uz eksperimentalni rad, dr Lazarević je takođe doprineo pisanju naučnog rada i interpretaciji dobijenih rezultata, osiguravajući da se podaci pravilno prezentuju i diskutuju.

5. **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. (Категорија M23, IF 2020 = 2,967)

Ovaj rad istražuje prisustvo epitelno-mezenhimalne tranzicije (EMT) u ćelijama tumora i margina oralnog skvamoznog ćelijskog karcinoma (OSCC). Cilj istraživanja je bio da se utvrdi ekspresija EMT markera, kao što su vimentin, α -smooth muscle actin (α -SMA), SLUG i SNAIL, i da se ispita proliferativni, klonalni i migracioni potencijal ćelija. Ćelijske kulture su generisane iz tumorskog tkiva i margina kod pacijenata sa OSCC, a analize su pokazale da su svi EMT markeri izraženi u obe vrste ćelija. Iako nije bilo značajnih razlika u ekspresiji, trend je pokazao višu ekspresiju markera u kulturama rubova resekcije nego u tumorskim kulturama. Rad je takođe istraživao kako se ovi markeri menjaju kroz pasaže ćelija (prva i peta pasaža), gde su primećene razlike u proliferaciji, migraciji i formiranju kolonija između ćelija tumora i margina. Rezultati sugerišu da EMT može igrati važnu ulogu u agresivnosti tumora, čak i u marginalnim tkivima.

Doprinos kandidata: Kao prvi autor, dr Miloš Lazarević je bio ključan u dizajniranju studije, eksperimentalnim procedurama i analizi podataka. Njegova uloga obuhvatala je izolaciju i kultivaciju ćelijskih kultura iz tumorskog tkiva i rubova resekcije pacijenata sa oralnim skvamoznim ćelijskim karcinomom (OSCC). Dr Lazarević je bio odgovoran za izvođenje ključnih eksperimenata, uključujući analize ekspresije EMT markera poput vimentina, α -SMA, SLUG i SNAIL korišćenjem RT-qPCR i Western blot tehnika. Takođe, dr Lazarević je bio uključen u sprovođenju testova proliferacije, migracije (*wound healing assay*) i formiranja kolonija kako bi se procenili klonalni potencijali ćelija iz tumora i rubova resekcije. Njegova uloga bila je ključna u analizi dobijenih podataka i interpretaciji rezultata, koji su pokazali značaj EMT-a u agresivnosti tumora, čak i u tkivima rubova resekcije. Pored eksperimentalnog rada, dr Lazarević je doprineo pisanju i uredništvu rukopisa, gde je bio odgovoran za integraciju rezultata u širu naučnu diskusiju i formulaciju zaključaka koji podržavaju važnost EMT markera u progresiji OSCC-a.

1. PRIKAZ OSTALIH NAUČNIH RADOVA

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

1. Vlajic-Tovilovic Tamara, Petrovic Sanja, Lazarevic Milos M, Pavic Aleksandar B, Plackic Nikola, Milovanovic Aleksa Lj, Milosevic Milos S, Miletic Vesna, Veljovic Djordje N, Radunovic Milena (2024) Effect of Acetylsalicylic Acid on Biological Properties of Novel Cement Based on Calcium Phosphate Doped with Ions of Strontium, Copper, and Zinc, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol. 25, br. 14, Article Number 7940. (Категорија M21, IF 2022 = 5,6)

Ovaj rad ispituje biološka svojstva novog cementa na bazi kalcijum-fosfata dopovanog jonima stroncijuma (Sr), bakra (Cu), i cinka (Zn), uz dodatak acetilsalicilne kiseline (ASA). Cilj istraživanja bio je procena mehaničkih svojstava, biokompatibilnosti i antibakterijskih efekata ovog cementa u poređenju sa komercijalno dostupnim mineral trioksid agregatom (MTA).

Rezultati pokazuju da dodavanje ASA cementu značajno poboljšava proliferaciju ćelija dentalne pulpe (*hDPSCs*) i ima jači antibiofilm efekat protiv *Streptococcus mutans* i *Lactobacillus rhamnosus* u poređenju sa cementom bez ASA. Takođe, ASA poboljšava bezbednosni profil cementa u modelu zebrice, gde je cement pokazao bolju biokompatibilnost i smanjenu toksičnost u poređenju sa MTA. Mehanička analiza pokazala je da cement sa dodatkom ASA ima zadovoljavajuću čvrstoću i kratko vreme vezivanja, što ga čini pogodnim za kliničku primenu. Formiranje apatita na površini cementa u simuliranoj telesnoj tečnosti ukazuje na njegovu dobru bioaktivnost. Zaključak istraživanja je da cement sa dodatkom ASA ima potencijal za kliničku primenu u dentalnim procedurama zbog poboljšanih bioloških i mehaničkih karakteristika.

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. (Категорија M21, IF 2022 = 4,5)

Rad se bavi procenom uticaja obogaćivanja nano-hidroksiapatitnih (nHAp) nosača bioaktivnim komponentama na regeneraciju kostiju. Sistematski pregled analizirao je rezultate 12 studija koje su koristile različite bioaktivne molekule, uključujući faktore rasta (npr. BMP2), hormone, polipeptide, mikroRNA i egzosome, kako bi se ubrzala i poboljšala formacija nove kosti u *in vivo* modelima. Rezultati pokazuju da dodavanje bioaktivnih komponenti značajno ubrzava

regeneraciju u poređenju sa čistim nHAp nosačima, dok su kombinacije sa BMP2 i njegovim sintetičkim varijantama pokazale najveći potencijal za stimulaciju osteogeneze. Analiza je ukazala na neophodnost standardizacije metoda istraživanja, kao što su veličina defekta, proporcija nHAp u nosačima i trajanje posmatranja, kako bi se omogućilo poređenje rezultata između različitih studija. Zaključeno je da obogaćeni nHAp nosači imaju značajan potencijal kao zamene za kost u kliničkim primenama, ali je potrebna dalja istraživanja kako bi se potvrdila njihova efikasnost i bezbednost u kliničkim uslovima.

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 2021 = 6,208)

Rad ispituje osteogeni i adipogeni diferencijacioni potencijal CD44⁺ ćelija raka usne šupljine (CSCs) i pokazuje da ove ćelije imaju značajno veći kapacitet za diferencijaciju u poređenju sa CD44[−] ćelijama. Tokom diferencijacije dolazi do smanjenja ekspresije embriogenih markera (OCT4, SOX2, NANOG) i onkogene miRNA-21, dok se ekspresija tumorski supresorskih miRNA-133 i miRNA-491 povećava. Diferencijacija izaziva apoptozu, izraženiju kod CD44[−] ćelija. Ovi nalazi ukazuju na potencijal diferencijacije kao terapijskog pristupa za smanjenje stemness svojstava CSC-a i tumorigeneze, ali su potrebna dalja in vivo istraživanja kako bi se procenila primenljivost u kliničkim uslovima.

4. Ilic Jugoslav M, Milosavljevic Aleksandra, Lazarevic Milos M, Milosevic-Markovic Maja, Milasin Jelena M, Vucetic Milan, Chaurasia Akhilanand, Miletic Vesna, Roganovic Jelena R (2023) Melatonin Mitigates iNOS-Related Effects of HEMA and Camphorquinone in Human Dental Pulp Cells: Relevance for Postoperative Sensitivity Mechanism in Type 2 Diabetes, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol. 24, br. 3, Article Number 2562. (Kategorija M21, IF 2021 = 6,208)

Rad istražuje ulogu melatonina u smanjenju citotoksičnih i upalnih efekata izazvanih HEMA-om i kamforhinonom (CQ) na ćelije ljudske zubne pulpe (hDPCs), posebno kod pacijenata sa dijabetesom tipa 2. Rezultati pokazuju da HEMA i CQ povećavaju ekspresiju pro-apoptičkih i oksidativnih markera (iNOS, HMOX1), smanjujući održivost ćelija, dok melatonin, posebno u nižim koncentracijama (0.1 mM), ublažava te efekte putem antioksidativnog i antiupalnog delovanja. Kod pacijenata sa dijabetesom tipa 2 uočen je povećan sadržaj iNOS u zubnoj pulpi, što doprinosi većoj postoperativnoj senzitivnosti nakon restauracija kompozitnim materijalima. Melatonin se ističe kao potencijalna terapijska opcija za smanjenje ovih neželjenih efekata, ali su potrebne dodatne in vivo studije kako bi se potvrdila njegova klinička primena.

5. Milosevic-Markovic Maja, Latas Milan B, Milovanovic Srdjan D, Totic-Poznanovic Sanja D, Lazarevic Milos M, Jaksic-Karisik Milica, Djordjevic Jana, Mandinic Zoran, Jovanovic Svetlana (2022) Mental Health and Quality of Life among Dental Students during COVID-19 Pandemic: A Cross-Sectional Study, INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH, vol. 19, br. 21, Article Number 14061. (Kategorija M21, IF 2021 = 4,614)

Ova studija ispituje uticaj COVID-19 pandemije na kvalitet života (QoL) i mentalno zdravlje studenata stomatologije. Analizirano je 797 studenata sa prosečnom starošću od 21,7 godina. Rezultati pokazuju da je 31,4% studenata ispunjavalo kriterijume za depresiju, dok je 19,9% imalo simptome generalizovanog anksioznog poremećaja. Faktori koji su značajno doprinosili lošijoj percepciji QoL uključuju ženski pol, život u studentskom domu i smrt bliskog člana porodice zbog COVID-19. Druga i treća godina studija su se pokazale kao periodi sa većim rizikom za anksioznost i depresiju. Ovi nalazi naglašavaju potrebu za pružanjem psihološke podrške i osmišljavanjem strategija za unapređenje kvaliteta života studenata tokom pandemija i sličnih kriza.

6. Simonovic Jelena M, Toljic Bosko M, Lazarevic Milos M, Milosevic-Markovic Maja, Peric Mina I, Vujin Jasna M, Panajotovic Radmila, Milasin Jelena M (2022) The Effect of Liquid-Phase Exfoliated Graphene Film on Neurodifferentiation of Stem Cells from Apical Papilla, NANOMATERIALS, vol. 12, br. 18, Article Number 3116. (Kategorija M21, IF 2021 = 5,719)

Studija istražuje uticaj grafenskog filma dobijenog tečnom eksfolijacijom (LPEG) na neurodiferencijaciju matičnih ćelija iz apikne papile (SCAP). Rezultati pokazuju da LPEG značajno podstiče neurogeni potencijal SCAP ćelija, što se ogleda u povećanoj ekspresiji ključnih neuronalnih markera (MAP2, β III-tubulin, NeuN) i promenama u ćelijskoj morfologiji prema neuronima sličnim strukturama. SCAP ćelije gajene na LPEG filmu pokazale su veću diferencijaciju u poređenju sa kontrolnim uzorcima na nekodiranoj podlozi, uključujući i povećanu ekspresiju markera kao što su Ngn2 i Mash1, koji favorizuju neurogenezu u odnosu na gliozu. Ovi nalazi ukazuju na potencijalnu primenu grafenskog filma u neuroregenerativnim terapijama, dok studija otvara vrata za dalja istraživanja sa drugim dentalnim matičnim ćelijama i optimizacijom svojstava grafenskih nanomaterijala.

7. Ivanovic Vera, Popovic Danica, Petrovic Sanja, Rudolf Rebeka, Majeric Peter, Lazarevic Milos M, Djordjevic Igor, Lazic Vojkan M, Radunovic Milena (2022) Unraveling the Antibiofilm Activity of a New Nanogold Resin for Dentures and Epithesis, PHARMACEUTICS, vol. 14, br. 7, Article Number 1513. (Категорија M21, IF 2021 = 6,525)

Rad istražuje efekte dodavanja nanočestica zlata (AuNPs) u polimetilmetakrilat (PMMA) kako bi se poboljšala njegova antibiofilm aktivnost. PMMA obogaćen AuNP-ovima (PMMA/AuNPs) pokazuje značajno smanjenu formaciju monomikrobnih biofilmova (*Candida albicans*, *Escherichia coli*, *Staphylococcus aureus*, *Streptococcus mitis*) u poređenju sa konvencionalnim PMMA-om. Mehaničke osobine, poput mikrotvrdoće i gustine, ostale su slične između dva materijala, dok AuNP-ovi nisu otpušteni iz kompozita. SEM analiza je potvrdila da mikroorganizmi formiraju manje konglomerate na PMMA/AuNP površini. Ovi rezultati ukazuju na potencijal PMMA/AuNPs u prevenciji denture stomatitisa i drugih infekcija povezanih sa biofilmovima, posebno kod imunokompromitovanih pacijenata.

8. Milosevic Maja, Lazarevic Milos M, Toljic Bosko M, Petrovic Milan B, Vukadinovic Miroslav, Jezdic Zoran, Anicic Boban, Jelovac Drago B, Jovanovic Svetlana, Milasin Jelena M (2021) Basal cell carcinoma stem cells exhibit osteogenic and chondrogenic differentiation potential, BIOCELL, vol. 45, br. 6, str. 1543-1550. (Категорија M22, IF 2019 = 2,821)

Rad istražuje potencijal ćelija bazocelularnog karcinoma (BCC) za diferencijaciju u različite linije. Rezultati pokazuju da stem ćelije BCC-a imaju sposobnost osteogene i hondrogene diferencijacije, što je potvrđeno specifičnim bojenjem i povećanom ekspresijom markera kao što su ALP, Runx2, COL1 i COL2A1. Nasuprot tome, adipogena i neurogena diferencijacija nisu bile uspješne. Diferencijacija je praćena smanjenjem ekspresije markera stem ćelija (CD44 i CD73) i delimičnom normalizacijom Sonic Hedgehog (SHH) signalnog puta. Ovi rezultati sugerišu potencijal za primenu diferencijacionih terapija u tretmanu agresivnih oblika BCC-a, ali su potrebna dalja istraživanja kako bi se optimizovala klinička primena ovog pristupa.

9. Ignjatovic Nenad L, Mancic Lidija T, Vukovic Marina N, Stojanovic Zoran S, Nikolic Marko G, Skapin Sreco Davor, Jovanovic Sonja, Veselinovic Ljiljana M, Uskokovic Vuk, Lazic Snezana, Markovic Smilja B, Lazarevic Milos M, Uskokovic Dragan P (2019) Rare-earth (Gd³⁺, Yb³⁺/Tm³⁺, Eu³⁺) co-doped hydroxyapatite as magnetic, up-conversion and down-conversion materials for multimodal imaging, SCIENTIFIC REPORTS, vol. 9, br., Article Number 16305. (Категорија M21, IF 2017 = 4,122)

Studija ispituje sintezu i karakterizaciju hidroksiapatita (HAp) dopiranog retkim zemljama (Gd³⁺, Yb³⁺/Tm³⁺, Eu³⁺) kao multifunkcionalnih materijala za multimodalno snimanje. Dopiranje je modifikovalo magnetske i optičke osobine HAp-a, pretvarajući ga iz dijamagnetskog u paramagnetski materijal i omogućilo „up“ i „down“-konverziju svetlosti. Analize su pokazale promene u strukturi, smanjenje energetskog pojasa (band gap) i generisanje vidljive plave i crvene svetlosti. Dopirani HAp pokazuje dobru biokompatibilnost sa matičnim ćelijama zubne pulpe (DPSCs), zadržavajući visoku ćelijsku održivost. Ovi rezultati sugerišu potencijal HAp+ za primenu u dijagnostici i terapiji, uključujući dubinsko tkivno snimanje bez autofluorescencije biomolekula.

10. Baldan F, Gnan C, Lazarevic Milos M, Nikolic Nadja S, Mio C, Tepavcevic Zvezdana B, Robiony M, Milasin Jelena M, Damante Giuseppe (2023) Somatic genomic imbalances in 'tumour-free' surgical margins of oral cancer, INTERNATIONAL JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY, vol. 52, br. 8, str. 831-838. (Категорија M22, IF 2021 = 2,986)

Studija analizira somatske genomske neravnoteže u tkivima za koja se histološki smatra da su „slobodna od tumora“ kod pacijenata sa oralnim karcinomom skvamoznih ćelija (OSCC). Rezultati pokazuju prisustvo dupliciranja i delecija u ovim marginama, iako su one bile znatno ređe nego u tumorskom tkivu. Identifikovane su zajedničke aberacije u tumorima i marginama na hromozomima 1q, 8p, Xp, i Yp, dok su marginama zabeležene ponovljene aberacije na autosomima 8 i 17, kao i na polnim hromozomima. Posebno su značajne aberacije na 8p11 regionu, koje su povezane sa rezistencijom na hemoradioterapiju, dok amplifikacija 17q25.3 ukazuje na potencijalnu ulogu u metastatskom potencijalu OSCC. Prisustvo ovih aberacija u marginama naglašava njihovu ulogu u lokalnom recidivu i nepredvidivom toku bolesti. Studija zaključuje da molekularna analiza „tumor-free“ margina može unaprediti predikciju ishoda i obogatiti razumevanje patogeneze OSCC. Limitacije uključuju mali uzorak pacijenata i visoku heterogenost nalaza.

11. 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. (Категорија M22, IF 2022 = 3,0)

Studija istražuje uticaj acetilsalicilne kiseline (ASA) na osteo/odontogenu diferencijaciju i proliferaciju matičnih ćelija zubne pulpe (DPSCs). Rezultati pokazuju da niske koncentracije ASA (10 µg/ml) značajno podstiču diferencijaciju DPSCs, što je potvrđeno povećanom formacijom mineralizovanih čvorića, povećanom aktivnošću alkalne fosfataze (ALP), kao i povećanom ekspresijom markera diferencijacije kao što su DSPP, BMP2, BMP4, BSP, OCN i RUNX2 (povećanje od 2 do 30 puta). ASA je takođe stimulisala proliferaciju DPSCs, dok je viša koncentracija ASA (100 µg/ml) pokazala blagi citotoksični efekat. Inhibicija AMPK puta dodatno je povećala ekspresiju odabranih gena, sugerišući da mehanizam delovanja ASA nije isključivo povezan sa aktivacijom ovog puta. Ovi rezultati ukazuju na potencijal ASA za primenu u regeneraciji dentalnog tkiva, posebno kod pacijenata koji koriste ASA u terapiji kardiovaskularnih bolesti.

12. Lazic Marko, Milicic-Lazic Minja, Jaksic-Karisik Milica, Lazarevic Milos M, Jug Andraz, Anzel Ivan, Milasin Jelena M (2022) Biocompatibility Study of a Cu-Al-Ni Rod Obtained by Continuous Casting, PROCESSES, vol. 10, br. 8, Article Number 1507. (Категорија M22, IF 2022 = 3,5)

Ovaj rad istražuje biokompatibilnost Cu-Al-Ni legure proizvedene metodom kontinuiranog livenja i njen potencijal za primenu u medicini. Rezultati pokazuju da legura poseduje martenzitnu strukturu sa dobrim stimulativnim efektima na proliferaciju fibroblasta i ćelija zubne pulpe (DPCs), pri čemu se povećanje ćelijske aktivnosti postiže nakon tretmana sa medijumom obogaćenim jonskim otpuštanjem bakra (Cu). Ispitivanja u neutralnoj veštačkoj pljuvački ukazuju na minimalno otpuštanje jona, dok je u kiselj sredini (pH 4.5) primećeno značajno povećanje otpuštanja Al i Ni jona. MTT i LDH analize potvrđuju odsustvo citotoksičnosti, pri čemu je Cu pri niskim koncentracijama (6.33 µg/mL) pokazao stimulativni efekat na ćelijsku proliferaciju. Studija naglašava potencijal Cu-Al-Ni legure u regenerativnoj medicini i stomatologiji, ali ističe potrebu za daljim istraživanjima radi poboljšanja korozijske otpornosti u kiselim sredinama.

13. Carkic Jelena, Nikolic Nadja S, Nisevic Jelena, Lazarevic Milos M, Kuzmanovic-Pficer Jovana M, Jelovac Drago B, Milasin Jelena M (2020) Endothelial nitric oxide synthase polymorphisms/haplotypes are strong modulators of oral cancer risk in Serbian population, JOURNAL OF ORAL SCIENCE, vol. 62, br. 3, str. 322-326. (Категорија M23, IF 2020 = 1,556)

Ovaj rad istražuje povezanost polimorfizama gena eNOS (-786 T/C, 894 G/T, i intron 4b/a VNTR) sa rizikom razvoja oralnog karcinoma skvamoznih ćelija (OSCC) u srpskoj populaciji. Analizirani su uzorci 50 pacijenata sa OSCC-om i 110 zdravih kontrola. Rezultati ukazuju da varijante -786 T/C i intron 4b/a VNTR značajno povećavaju rizik od OSCC-a, pri čemu kombinacija CC i 4b4a genotipova vodi do 21 puta većeg rizika (OR: 21; P = 0.006). Hapliti C-G-4b pokazali su 11 puta veći rizik (OR: 11.52; P < 0.001). Iako je pušenje identifikovano kao nezavisni faktor rizika (OR: 2.5; P = 0.009), genetski polimorfizmi pokazali su dodatni, značajan uticaj na kancerogenezu. Ovi nalazi ukazuju na potencijal eNOS polimorfizama kao markera rizika za OSCC i naglašavaju važnost daljih istraživanja u kontekstu personalizovane medicine.

2. CITIRANOST RADOVA

Ukupna citiranost radova na Scopus-u do 15. 11. 2024. iznosi **288** heterocitata (sa autocitatima 311), a ***h-index* je 9.**

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5. KVALITATIVNI POKAZATELJI NAUČNO-ISTRAŽIVAČKOG RADA

Analiza naučno-istraživačkog rada nakon izbora u zvanje naučni saradnik pokazala je da dr Miloš Lazarević 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. Njegovi dosadašnji rezultati predstavljaju značajan doprinos istraživanjima u oblasti patologije orofacijalne regije i citologije i kao takvi prepoznati su od strane međunarodne naučne zajednice o čemu svedoče podaci o citiranosti njegovih publikacija. Više studija iz bibliografije su od početka do kraja osmišljeni, izvedeni i napisani od strane kandidata.

Kandidat je kao rukovodilac projekta konkurisao na jedan od poziva Fonda za nauku Republike Srbije, na pozivu Dokaz Koncepta, nažalost bez uspeha.

Kandidat je bio član organizacionog odbora: Serbian Ceramic Society Conference – Advanced Ceramics and Application XI New Frontiers in Multifunctional Material Science and Processing, Serbian Academy of Sciences and Art Serbia, Belgrade, 18-20. September 2023. Belgrade: Serbian Ceramic Society.

Kandidat je imao do sada jedno predavanje po pozivu: Lazarevic Milos M, Jaksic Karisik Milica, Trisic Dijana, Milasin Jelena (2024). Synergistic targeting of CD44+ cancer stem cells in oral squamous cell carcinoma through miRNA-21 silencing and bet inhibition. 7th Congress of the Serbian genetic society, 2-4 October, Zlatibor, Serbia. Abstract book p 102.

Učešće na projektima

„Genetička kontrola i molekularni mehanizmi u malignim, inflamatornim i razvojnim patologijama orofacijalne regije“ (OI175075) - finansiran od strane Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije, u periodu od 2011-2019. godine.

Oral cancer - new approaches in prevention, control and post operative regeneration - an in vitro study (7750038) – finansirani od strane Fonda za Nauku (R. Srbija), u periodu od 2022-2025. godine.
<https://orca-pcrideas.com/>

Rukovođenje naučnim projektima, podprojektima i zadacima

U okviru projekta: „Genetička kontrola i molekularni mehanizmi u malignim, inflamatornim i razvojnim patologijama orofacijalne regije“ (OI175075), koji je finansiran od strane Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije, u periodu od 2011-2019. godine, dr Miloš Lazarević, naučni saradnik Stomatološkog fakulteta Univerziteta u Beogradu, rukovodio je realizacijom projektnog zadatka: „*Izolacija i karakterizacija kancerskih matičnih ćelija porekla oralnog planocelularnog karcinoma*“ koji je uspešno izvršen.

Pedagoški rad

Od školske 2018/19. godine dr Miloš Lazarević učestvuje u izvođenju praktične nastave na predmetu Opšta i oralna patologija na integrisanim studijama Stomatološkog fakulteta Univerziteta u Beogradu.

Kandidat dr Miloš Lazarević je od završetka svoje doktorske disertacije bio uključen u obučavanje i rad sa mlađim doktorantima – Mladen Vuković (zahvalnica u doktoratu), Minja Miličić Lazić (zahvalnica u doktoratu).

Kandidat dr Miloš Lazarević je bio član komisije za odbranu jednog specijalističkog i dva master rada:

Specijalistički rad: Ekspresije SOX2, OCT4, i NANOG gena u matičnim ćelijama zubnih tkiva čoveka. 15/125-14.07.2023. Marina Trifunović B2004/2022.

Master rad: Uloga miRNK-21, miRNK-26a i miRNK-31 u patogenezi oralnog carcinoma. 15/276-14.10.2022. Sofija Milošević B1006/2021.

Master rad: Analiza ekspresije gena NOTCH signalnog puta u ćelijama oralnog carcinoma tretiranim egzozomima mezenhimskih matičnih ćelija. 15/53-19.06.2020. Nataša Simić B1017/2019.

Kandidat je bio mentor sedam studentskih naučno-istraživačkih radova do sada:

1. The analysis of cytotoxic effect of chemotherapeutics on oral squamous cell carcinoma primary cultures. Author: Teodora Andrijević Mentor: Full Prof. Jelena Milašin, Miloš Lazarević. School of Dental Medicine, University of Belgrade. 2018.

2. Isolation and characterization of stem cells from the buccal mucosa. Author: Reyhaneh Hosseinpour. Mentor: Prof. Jelena Milasin, Milos Lazarevic. Department of Human Genetics, Faculty of Dental Medicine University of Belgrade. 2023.

3. Expression of "EPCAM" tumor marker in pleomorphic adenoma of salivary glands. Author: Jelena Cvijetic. Mentor: Full Prof. Zvezdana Tepavcevic, Milos Lazarevic. Basic and Oral Pathology, Faculty of Dental Medicine University of Belgrade. 2023.

4. Tumor budding in oral carcinoma. Author: Milica Vujovic. Mentor: Full Prof. Zvezdana Tepavcevic, Milos Lazarevic. Department of Basic and Oral Pathology, Faculty of Dental Medicine University of Belgrade. 2023.

5. Frequency of Wartin's tumor in patients with parotidectomy after COVID-19. Author: Marija Stefanović, Galina Radenković. Mentor: assistant Dr. Milena Barać, Miloš Lazarević. Institute courses: Pharmacology, Faculty of Dentistry, University of Belgrade. 2024.

6. The isolation of dental pulp stem cell-derived exosomes and their nta (nanoparticle tracking analysis) characterization. Authors: Reyhaneh HosseinPour, Sofija Rajić. Mentors: Prof. Dr. Jelena Milašin, Miloš Lazarević. Department of Human Genetics, School of Dental Medicine, University of Belgrade. 2024.

7. The flow cytometry analysis of oral cancer stem cells presence in paraffin-embedded samples. Author: Anđela Rašović, Aleksandra Topić. Mentor: Full Prof. Branko Dožić, Miloš Lazarević. Department of Basic and Oral Pathology, School of Dental Medicine, University of Belgrade. 2024.

Ostalo

Kandidat je recenzent u naučnim časopisima Applied sciences, Archives of dermatological research, Archives of oral biology, Balkan Journal of Dental Medicine, Biomolecules, Cells, Current issues in molecular biology, Genetics (Genetika) Experimental and Therapeutic Medicine, International journal of molecular sciences, International Journal of Oncology, Journal of clinical medicine, Lifem Medicina, Molecules, Oncologie, Oncology Letters, Oncology Reports, World Academy of Sciences journal. <https://orcid.org/0000-0003-1330-5332>

Kandidat dr Lazarević je gostujući urednik časopisa Cells: Special Issue: Oral Tissue Stem Cells in Regenerative Dentistry, Cells, MDPI, Basel, April 2024. https://www.mdpi.com/journal/cells/special_issues/11898XEN4Z

6. TABELA SA KVANTITATIVNOM OCENOM NAUČNIH REZULTATA

VIŠI NAUČNI SARADNIK	POTREBNO	OSTVARENO
UKUPNO	50	113,12
M10+M20+M31+M32+M33+M41+M42 +M90	40	100,92
M11+M12+M21+M22+M23	30	99,42

7. MIŠLJENJE I ZAKLJUČAK KOMISIJE

Tokom dosadašnjih istraživanja dr Miloš Lazarević dao je značajan doprinos u oblasti ispitivanja patologije orofacijalne regije i biomaterijala. Kandidat je na osnovu stečenog teorijskog znanja i eksperimentalnog iskustva pokazao 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 Miloša Lazarevića i prikazanih naučnih publikacija, Komisija je došla do zaključka da kandidat u potpunosti ispunjava uslove za izor u zvanje *viši naučni saradnik*. Predlažemo Nastavno-naučnom veću Stomatološkog fakulteta u Beogradu da prihvati ovaj Izveštaj i utvrdi predlog za izbor dr Miloša Lazarevića 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