

НАСТАВНО-НАУЧНОМ ВЕЋУ МЕДИЦИНСКОГ ФАКУЛТЕТА ВОЈНОМЕДИЦИНСКЕ АКАДЕМИЈЕ УНИВЕРЗИТЕТА ОДБРАНЕ У БЕОГРАДУ

Наставно-научно веће Медицинског факултета Војномедицинске академије Универзитета одбране у Београду на седници одржаној 26.09.2019. године одредило је Комисију за утврђивање испуњености услова за избор у научно звање, у следећем саставу:

1. Академик, проф. др Миодраг Чолић, научни саветник,
професор емеритус Медицинског факултета ВМА, Универзитет одбране
2. Проф. др Драгана Вучевић, научни саветник,
Медицински факултет ВМА, Универзитет одбране
3. Проф. др Алекса Трбовић, научни саветник,
Медицински факултет, Универзитет у Београду

Комисија је разматрала пријаву кандидата Саше Василијића за реизбор у звање вишег научног сарадника за област природноматематичке науке-биологија и подноси следећи

ИЗВЕШТАЈ

1. БИОГРАФСКИ ПОДАЦИ

Др Саша, Ранко, Василијић је рођен 20. септембра 1969. године у Зајечару. Биолошки факултет у Београду, одсек Општа биологија, је завршио 1995. године са просечном оценом 9.15. Од 21. 04.2000. године је у сталном радном односу у Институту за медицинска истраживања, Војномедицинске академије у Београду, где тренутно обавља дужност начелника Одсека за ћелијско и ткивно биоинжињерство.

Последипломске студије из Имунобиологије на Биолошком факултету Универзитета у Београду уписао је школске 1996/97 године, а магистарску тезу под називом "Модулација морфолошких, фенотипских и функционалних својстава дендритичних ћелија тимуса пацова *in vitro* помоћу фактора раста гранулоцитно-моноцитних колонија" успешно је одбранио 2002. године.

На истом факултету је јуна 2008. године одбранио докторску дисертацију под називом: "Модулација функционалних својстава CD11b⁺ и CD11b⁻ субпопулације тимусних дендритичних ћелија пацова *in vitro* помоћу фактора раста гранулоцитно-моноцитних колонија".

У звање научног сарадника је изабран 28.12.2009. године, вишег научног сарадника 26. марта 2015. године. У звање доцента за ужу научну област биологија са хуманом генетиком је изабран 03.12.2009. године, док је у звање ванредног професора изабран 3.12.2014. године на Медицинском факултету Војномедицинске академије Универзитета одбране у Београду.

Од 2011. године др Василијић је на месту начелника Одсека за ћелијско и ткивно биоинжињерство у одељењу за Молекулску медицину, Института за медицинска истраживања ВМА.

Од септембра 2016. године, др Василијић се налази на стручном усавршавању (*Visiting Research Scholar*) на Медицинском факултету Универзитета Харвард (*School of Medicine, Harvard University*) / Болница за око и уво Масачусетса (*Massachusetts Eye and Ear*), Бостон, САД.

2. БИБЛИОГРАФИЈА

2.1. РАДОВИ ОБЈАВЉЕНИ ПРЕ ИЗБОРА У ЗВАЊЕ ВИШИ НАУЧНИ САРАДНИК:

M21 - Рад у врхунском међународном часопису (8,0)

1. Čolić M, **Vasilijić S**, Gazivoda D, Vučević D, Marjanovic M, Lukić A. Interleukin-17 plays a role in exacerbation of inflammation within chronic periapical lesions. *Eur J Oral Sci* 2007; 115(4): 315-320.
(IF = 2.071; 13/51 Dentistry, oral surgery & medicine, 2007)
2. Čolić M, Gazivoda D, Vučević D, Majstorović I, **Vasilijić S**, Rudolf R, Brkić Z, Milosavljević P. Regulatory T Cells in Periapical Lesions. *J Dent Res* 2009; 88 (11): 997-1002.
(IF = 3.458; 2/64 Dentistry, oral surgery & medicine, 2009)
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(IF = 3.458; 2/64 Dentistry, oral surgery & medicine, 2009)
4. Čolić M, Gazivoda D, Vučević D, **Vasilijić S**, Rudolf R, Lukić A. Proinflammatory and immunoregulatory mechanisms in periapical lesions. *Mol Immunol* 2009; 47 (1): 101-113.
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5. Colic M, Gazivoda D, **Vasilijic S**, Vucevic D, Lukic A. Production of IL-10 and IL-12 by antigen-presenting cells in periapical lesions. *J Oral Pathol Med.* 2010 Oct;39(9):690-6.
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7. Dragicevic A, Dzopalic T, **Vasilijic S**, Vucevic D, Tomic S, Bozic B, Colic M. Signaling through Toll-like receptor 3 and Dectin-1 potentiates the capability of human monocyte-derived dendritic cells to promote T-helper 1 and T-helper 17 immune responses. *Cytotherapy.* 2012 May;14(5):598-607.
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8. Stefanoska I, Jovanovic Krivokuca M, **Vasilijic S**, Cujic D, Vicovac L. Prolactin stimulates cell migration and invasion by human trophoblast in vitro. *Placenta.* 2013 Sep;34(9):775-83.
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9. Tomic S, Dokic J, **Vasilijic S**, Ogrinc N, Rudolf R, Pelicon P, Vucevic D, Milosavljevic P, Jankovic S, Anzel I, Rajkovic J, Rupnik MS, Friedrich B, Colic M. Size-dependent effects of gold nanoparticles uptake on maturation and antitumor functions of human dendritic cells in vitro. *PLoS One.* 2014;9(5):e96584.
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10. Antić-Stanković J, Vučević D, Majstorović I, **Vasilijić S**, Čolić M. The role of rat Crry, a complement regulatory protein, in proliferation of thymocytes. *Life Sci* 2004; 75: 3053-3062.
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M33 – Саопштење са међународног скупа штампано у целини (1)

29. **Vasilijić S**, and Čolić M. GM-CSF modulates phenotypic characteristics of thymic dendritic cells and increases their accessory function. In: EFIS 2000. Mackiewicz A, Kurpisz M, Zeromski J (eds.), Monduzzi Editore International Proceedings Division, pp: 295-299, 2001.
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M34 - Саопштење са међународног скупа штампано у изводу (0,5)

35. **Vasilijić S.**, Čolić M and Jandrić D. The role of B7 in apoptosis and proliferation of thymocytes induced by thymic dendritic cells. Second Balkan Immunology Conference, Varna, Bulgaria, 1-4, October, 1998. P48.
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41. **Vasilijić S.**, Čolić M. GM-CSF decreases apoptosis of rat thymic dendritic cells in culture and increases their accessory function in the autologous thymocyte proliferation assay. *Immunology Letters* 2000. 73 (2,3) 75-302.
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47. Vučević D, **Vasilijić S**, Popović P, Petrović V, Gašić S, Majstorović I and Čolić M. A rat thymic epithelial cell line with nursing activity supports differentiation of rat thymocytes towards CD4+ CD8lo cells. 3th Balkan Congress of Immunology, Athens, Greece, Oct 30 - Nov 1, 2001. Programme and book of abstracts, P6, p54.
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M53 - Рад у научном часопису (1,0)

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M64 - Saopšteње sa skupa nacionalnog značaja štampano u izvodu (0,2)

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M71 – Одбрањена докторска дисертација (6)

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M72 – Одбрањен магистарски рад (3)

173. Saša Vasilijić. Modulacija morfoloških, fenotipskih i funkcionalnih svojstava dendritičnih ćelija timusa pacova in vitro pomoću faktora rasta granulocitno-monocitnih kolonija. Biološki fakultet, Univerzitet u Beogradu, Beograd 2002.

2.2. РАДОВИ ОБЈАВЉЕНИ ПОСЛЕ ИЗБОРА У ЗВАЊЕ ВИШИ НАУЧНИ САРАДНИК

M14 - Рад у тематском зборнику међународног значаја (4,0)

174. Landegger D*, **Vasilijic S***, Fujita T, Soares V, Seist R, Xu L, and Stankovic K. Cytokine levels in inner ear fluid of young and aged mice as molecular biomarkers of noise-induced hearing loss. Front. Neurol. 2019. Research Topic: Neuroimmunology of the Inner Ear. doi: 10.3389/fneur.2019.00977

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(IF=2.635, Clinical Neurology, 100/199, подаци за 2018. годину)

M21 - Рад у врхунском међународном часопису (8,0)

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**Нормирано: 5.00*

176. Cetenovic B, Prokic B, **Vasilijic S**, Dojcinovic B, Magic M, Jokanovic V, Markovic D. Biocompatibility investigation of new endodontic materials based on nanosynthesized calcium silicates combined with different radiopacifiers. *J Endod.* 2017 Mar;43(3):425-432.

(IF=2.886, *Dentistry, Oral Surgery & Medicine* 13/91, подаци за 2017. годину)

177. Sagers J, Brown A, **Vasilijic S**, Lewis R, Sahin M, Landegger L, Perlis R, Kohane I, Welling B, Patel C, Stankovic K. Computational repositioning and preclinical validation of mifepristone for human vestibular schwannoma. *Scientific Reports*, 2018; 8 (1) DOI: 10.1038/s41598-018-23609-7

(IF=4.525, *Multydisciplinary Sciences* 13/69, подаци за 2018. годину)

**Нормирано: 4.44*

M22 - Рад у истакнутом међународном часопису (5,0)

178. Cetenovic B, Colovic B, **Vasilijic S**, Prokic B, Pasalic S, Jokanovic V, Tepavcevic Z, Markovic D. Nanostructured endodontic materials mixed with different radiocontrast agents-biocompatibility study. *J Mater Sci Mater Med.* 2018 Dec 10;29(12):190.

(IF=2.467, *Engineering, Biomedical*, 34/80, подаци за 2018. годину)

**Нормирано: 4.17*

M23 - Рад у међународном часопису (3,0)

179. Vasilev S, Ilic N, Gruden-Movsesijan A, **Vasilijic S**, Bosic M, Sofronic-Milosavljevic L. Necrosis and apoptosis in *Trichinella spiralis*-mediated tumour reduction. *Central European Journal of Immunology.* 2015;40(1):42-53.

(IF=0.309, *Immunology* 151/151, подаци за 2015. годину)

180. Mikic D, **Vasilijic S**, Cucuz M, Colic M. Clinical significance of soluble Fas plasma levels in patients with sepsis. *Vojnosanit Pregl* 2015; 72(7): 608–613.

(IF=0.355, *Medicine, General & Internal* 134/155, подаци за 2015. годину)

181. Jevtic A., Todorovic M., Ostojic G., **Vasilijic S.**, Pavlovic M., Balint B. Autologous transfusions for elective surgery – from existing approaches to upcoming challenges. *Vojnosanit Pregl.* 2017; 74(7): 676-680.

(IF=0.405, *Medicine, General & Internal* 144/155, подаци за 2017. годину)

182. Milanovic V., Radovanovic A., **Vasilijic S.**, Mrvic V., Milosevic B. Histological And Immunological Changes in Uterus During the Different Reproductive Stages at Californian Rabbit (*Oryctolagus cuniculus*) *Kafkas Univ Vet Fak.* 2017. 23, 137-144. DOI: 10.9775/kvfd.2016.16008

(IF=0.452, *Veterinary*, подаци за 2017. годину)

183. Magic M., Colovic B., Jokanovic V., **Vasilijic S.**, Markovic M., Vucevic D., Rudolf R., Colic S., Colic M. Cytotoxicity of titanium alloy coated with hydroxyapatite by plasma jet deposition. *Vojnosanit Pregl.* 2019; 76 (5): 492-501.

(IF=0.272, *Medicine, General & Internal* 155/160, подаци за 2018. годину)

**Нормирано: 2.14*

M34 - Саопштење са међународног скупа штампано у изводу (0,5)

184. Bokonjic D., Stojnic N., Colic M., Mihajlovic D., **Vasilijic S.**, Minic P., Vucevic D. Impaired neutrophil extracellular traps formation in children suffering from cystic fibrosis. 14th International Congress on Pediatric Pulmonology, Krakow, Poland, June 25–28, 2015. Pediatric Pulmonology, Volume 50, Issue S39 ppS69
185. **Vasilijic S.**, Vucevic D, Markovic M, Bozic B, Rajkovic I, Kostic Z, Jankovic S, Mikic D, Colic M. Tissue conditioned media from colorectal carcinoma stimulate in an inverse dose-dependent manner accessory capacity of human monocyte - derived dendritic cells. 4th European Congress of Immunology (ECI), Vienna, September 6-9, 2015. Abstract book, pp505.

**Нормирано: 0.36*

186. **Vasilijic S.**, Markovic M, Vucevic D, Bozic B, Rajkovic I, Kostic Z, Jankovic S, Mikic D, Colic M. Response of monocyte - derived dendritic cells, pretreated with tissue conditioned media from colorectal carcinoma, to TLR-3 and TLR-7 agonists. 4th European Congress of Immunology (ECI), Vienna, September 6-9, 2015. Abstract book, pp504.

**Нормирано: 0.36*

187. Rajkovic I, **Vasilijic S.**, Vucevic D, Thorne A, Markovic M, Colic M. Modulation of T-helper polarizing capability of human monocyte derived Langerhans cells by TLR-3 and Dectin-1 agonists. 4th European Congress of Immunology (ECI), Vienna, September 6-9, 2015. Abstract book, pp158.

188. Zmijanjac D, Markovic M, **Vasilijic S.**, Vucevic D, Cilerdzic J, Stajic M, Vukojevic J, Bozic B. Effect of Ganoderma lucidum basidiocarps cultivated on alternative substrate to functional aspects of human monocyte-derived dendritic cells. 4th European Congress of Immunology (ECI), Vienna, September 6-9, 2015. Abstract book, pp566.

**Нормирано: 0.42*

189. Turuntas V, De Luka S, Trbovich A, **Vasilijic S.** Immunomodulatory effects of long-term low strength static magnetic field exposure on human T lymphocytes function in vitro. European Academy of Allergy and Clinical Immunology, Congress 2015, 6 – 10 June 2015, Barcelona, Spain

190. Turuntas V, **Vasilijic S.**, Trbovich M. Effects of long-term low strength static magnetic field exposure on Th polarization in vitro. Pediatric Allergy and Asthma Meeting - PAAM 2017, 26 - 28 October, 2017, London, UK

191. Cetenovic B, Colovic B, **Vasilijic S.**, Jokanovic V, Markovic D. Nanostructured Endodontic Materials Based on Highly Active Calcium Silicates-Biocompatibility Study. 22nd BaSS, Thessaloniki 2017; Abstract Book:145.

192. Sagers JE, Brown AS, **Vasilijic S.**, Lewis R, Sahin MI, Landegger LD, Perlis RH, Kohane IS, Welling DB, Patel CJ, Stankovic KM. “Computational repositioning and preclinical validation of mifepristone for human vestibular schwannoma.” Poster presentation, 41st Association for Research in Otolaryngology (ARO) Midwinter Meeting, February 9-14, 2018. San Diego, CA, USA, ARO Abstracts, Vol. 41: 52.

**Нормирано: 0.28*

193. Landegger L; Fujita T; **Vasilijic S.**, Soares V, Xu L, Stankovic K. Cytokine Levels in Perilymph of Young and Aged Mice as Molecular Biomarkers of Noise-Induced Hearing Loss. 42nd Association for Research in Otolaryngology (ARO) Midwinter Meeting, February 9-13, 2019. Baltimore, MD, USA, ARO Abstracts, Vol. 42: 345.

M53 - Рад у научном часопису (1,0)

194. **S. Vasilijic**, D. Vučević, I. Rajković, Majstorović I. i M. Čolić. Efekat GM-CSF-a na endocitoznu aktivnost CD11b⁻ i CD11b⁺ subpopulacije timusnih dendritskih ćelija pacova in vitro. Bilt Transfuziol. 2015;60(1-2):50-57

195. Ćetenović, B., Ćolović, B., **Vasilijić, S.**, Pašalić, S., Jokanović, V., Marković, D. (2017). In Vitro Biocompatibility of Nanostructured Endodontic Materials Using SCAP Cells. *Balkan Journal of Dental Medicine*. 2017; 21(3):167-170.

M64 - Сопштење са скупа националног значаја штампано у изводу (0,2)

196. Mihajlović D., Vučević D., Tomić S., **Vasilijić S.**, Rajković I., Ćolić M. Imunomodulatorna i antioksidativna svojstva 10-hidroksi-2-dekanoične kiseline. VII Naučni sastanak Društva imunologa Srbije, SANU, Beograd, 27- 28. april 2016. godine. Knjiga abstrakata, str. 12.
197. Nedeljković P., Zmijanac D., Drašković-Pavlović B., Vučević D., Vasiljevska M., Marković M., **Vasilijić S.**, Bumbaširević M., Božić B. Terapija vitaminom B pomaže u regeneraciji perifernog nerva i moduliše aktivnost peritonealnih makrofaga na modelu povrede femoralnog nerva pacova. VII Naučni sastanak Društva imunologa Srbije, SANU, Beograd, 27- 28. april 2016. godine. Knjiga abstrakata, str. 7.

**Нормирано: 0.14*

2.3. РАДОВИ ПУБЛИКОВАНИ ПОСЛЕ ОДЛУКЕ НАСТАВНО-НАУЧНОГ ВЕЋА О ПРЕДЛОГУ ЗА СТИЦАЊЕ ЗВАЊА ВИШИ НАУЧНИ САРАДНИК (Одлука бр. 12/22, донета на 22. седници Наставно-научног већа Медицинског факултета ВМА, одржаној 25. септембра 2014. године)

M23 - Рад у међународном часопису (3,0)

198. Majstorović I, Vučević D, Pavlović B, **Vasilijić S.**, Ćolić M. An anti-DEC-205 monoclonal antibody stimulates binding of thymocytes to rat thymic dendritic cells and promotes apoptosis of thymocytes. *Cent Eur J Immunol*. 2014;39(4):411-8. doi: 10.5114/cej.2014.47722. Epub 2014 Dec 15.

(IF=0.280, Immunology 147/148, подаци за 2014. годину)

M32 - Предавање по позиву са међународног скупа штампано у изводу (1,5)

199. **Vasilijić S.** Modulation of Dendritic Cell Functions by Pharmacological Agents. Invited lectures. VI Serbian Congress of Pharmacy with International Participations. October 15th-19th 2014. Belgrade. Abstract book: The Role of Pharmacy in the Health Service Science and Practice. p 46. ISBN 978-86-918145-0-2

M34 - Саопштење са међународног скупа штампано у изводу (0,5)

200. Turuntas V, De Luka SR, Trbovich AM, **Vasilijic S.** Effects of long-term low strength static magnetic field exposure on Th polarization in vitro. Allergy. [Meeting Abstract]. 2014 Sep;69:201-2.

M42 - Монографија националног значаја (5,0)

201. **Василијић С.** Толерогене дендритске ћелије, Задужбина Андрејевић, Београд, новембар 2014. ISBN 978-86-525-0181-6.

3. АНАЛИЗА РАДОВА (који кандидата квалификују у предложено звање) – кратак опис радова груписаних према сличној проблематици

Преглед објављених радова др Саше Василијић после избора у звање виши научни сарадник показује да се његов научно-истраживачки рад одвијао у неколико паралелних праваца истраживања.

У монографији под називом: *Толерогене дендритске ћелије* (201), др Василијић је дао свеобухватан преглед литературних података о улози дендритских ћелија (DC) у централној и периферној имунолошкој толеранцији. Коментаришући резултате својих претходних истраживања, др Василијић указује на улогу фактора стимулације раста колонија гранулоцита и макрофага (GM-CSF) у модулацији функцијских карактеристика субпопулација тимусних DC (TDC), односно стицање толерогених својстава DC током развоја инфламације. Вредност монографије додатно потврђује растућа цитираност ауторских радова др Василијића који су реферисани у његовој монографији. Према ревијалном раду објављеном у часопису *Seminars in Immunology (Vol. 29, February 2017, page-33-40)*, у монографији цитирана студија др Василијића о толерогеним DC (18) представља једино, познато истраживање о улози DC у акутној и хроничној инфламацији, као и у процесу зарастања ране око имплантираних биоматеријала. За ову монографију, др Василијић је награђен за ауторски подухват године у области медицинских наука, од стране Управе за војно здравство Министарства одбране Р. Србије (Београд 30. јули 2015. године).

Истраживања из области имунобиологије DC, у којима је учествовао др Василијић у претходном периоду, односе се на изналажење оптималних протокола припреме имуностимулаторних DC (175) и испитивање модулације функције TDC и њихове интеракције са ћелијама тимусне средине (194, 198).

У студији изведеној на хуманим DC моноцитног порекла показано је да 24-часовна диференцијација DC и потоња 48-часовна стимулација њиховог сазревања применом агониста Toll-сличних рецептора -3 (TLR3) може довести до настанка DC са толерогеним карактеристикама (175). Код 7 од укупно 12 донора, DC су испољавале значајно нижу експресију маркера зрелих DC, као и изражено својство усмеравања цитокиноског одговора Т лимфоцита ка Th2 профили. Ове ћелије се одликују и већом експресијом имуно-инхибиторних фактора (попут IL-10 и IDO молекула) и способношћу индукције регулаторних Т лимфоцита. Ови налази указују да се DC могу генерисати применом скраћеног поступка диференцијације (24 часова, уместо 5 дана), међутим њихова функционалност варира између различитих донора, од имуностимулаторних до имуноинхибиторних ћелија. Практични аспект ове студије је спознаја ограничења протокола убрзане припреме DC које би се користиле у имунотерапији тумора.

У студији која се односи на испитивање модулације функцијских карактеристика TDC испитан је ефекат GM-CSF на ендцитозну активност субпопулација TDC (194). Показано је да су CD11b⁻ DC супериорније у ендцитози солубилних продуката (декстран), док нема разлике између CD11b⁻ и CD11b⁺ субпопулације TDC у њиховој способности фагоцитозе апоптотичних тимоцита. У односу на деловање GM-CSF, CD11b⁺ TDC одговарају значајно већом ендцитозном и фагоцитозном активношћу у поређењу са CD11b⁻ субпопулацијом TDC. Резултати ове студије указују да GM-CSF као солубилни фактор тимусне средине може имати улогу селективног регулатора процеса интернализије антигена у тимусу. У другој студији у којој је др Василијић учествовао, испитана је експресија DEC-205 молекула на ћелијама тимусне средине и његова улога у развоју и функционалној активности Т лимфоцита *in vitro* (198). Показано је да је овај молекул испољен на кортикалним тимусним епителним ћелијама и TDC *in situ*. Применом HD83 моноклонског антитела, које специфично препознаје DEC-205 молекул, долази до активације овог молекула и поспешивања интеракције између тимоцита и TDC *in vitro*, као и апоптозе тимоцита. Значај ових резултата је указивање на могућу недовољно познату улогу DEC-205 молекула у апоптози и селекцији тимоцита.

У протеклом периоду, посебан део истраживања др Василијића је реализован у оквиру научно-истраживачке сарадње на пројекатима других научних установа у земљи и иностранству. У оквиру ове целине издвајају се следећа истраживања:

- испитивање биокомпатибилности нових ендодонтских материјала израђених применом савремених технологија наносинтезе (176,178,195) и плазма депозиције (183),
- испитивање анти-туморског ефекта трихинеле (*Trichinella spiralis*) на експерименталном моделу мишићег меланома (179),
- испитивање клиничког значаја нивоа солубилног FAS молекула код пацијената са сепсом (180),
- анализа дистрибуције имунских ћелија у репродуктивном тракту кунића током различитих репродуктивних стања (182).

У овим истраживањима, др Василијић је био носилац *in vitro* испитивања различитих аспеката биологије ћелија (метаболичка активност, пролиферација, некроза, апоптоза) и фенотипске карактеризације ћелија и ткива.

Засебну целину истраживачког рада др Василијића чине истраживања које се реализују у склопу његовог научног усавршавања у САД. Током досадашњег боравка на Универзитету Харвард (септембар 2016. године – октобар 2019. године), др Василијић је активно учествовао у испитивању деловања солубилних фактора тумора шванових ћелија вестибуларног нерва (вестибуларни шваном) на губитак слуха оболелих од овог типа тумора, као и у карактеризацији имунске микросредине унутрашњег уха.

Др Василијић је учествовао у до сада највећој изведеној студији- мета анализи транскриптома вестибуларног шванома, која је за циљ имала идентификацију лека који инхибира раст ћелија вестибуларног шванома. Софтверском анализом електронских база експресије гена (*NCBI GEO*), биохемијских сигналних путева (*Ingenuity Pathway Analysis*) и алтернативне терапијске примене већ постојећих лекова (*ksRepo*), анализирано је преко 1100 лекова одобрених од стране Америчке агенције за храну и лекове (FDA) и идентификовано неколико лекова као потенцијалних кандидата за лечење вестибуларног шванома. Међу овим лековима, као најефикаснији је идентификован Мифепристон, лек који се у досадашњој клиничкој пракси користио за спречавање нежељене трудноће. Ово истраживање је на *in vitro* моделу показало да Мифепристон значајно инхибира раст вестибуларног шванома. Резултати су публиковани у часопису категорије M21, где је др Василијић трећи аутор од укупно 11 аутора (177).

У склопу карактеризације имунске микросредине унутрашњег уха, посебно место чини студија у којој је до сада по први пут анализиран цитокински профил перилимфе унутрашњег уха миша (174). У овој студији је показана изводљивост узорковања 0.5µl перилимфе са различитих локација унутрашњег уха. Из ове запремине је могуће урадити анализу цитокинског профила и осталих солубилних маркера који могу имати улогу биомаркера у дијагностици различитих патолошких стања повезаних са губитком слуха. Резултати овог истраживања су показали да међу проинфламаторним медијаторима, рапидно и највеће повећање концентрације у перилимфи након акустичне трауме има CXCL1 хемокин. Поред тога, потпуно неочекиван налаз ове студије је конститутивна експресија CXCL1 у потпорним ћелијама унутрашњег уха под физиолошким условима, што представља први описан налаз ћелијске дистрибуције овог хемокина у унутрашњем уху. Осим тога, у овој студији је показано да улогу CXCL1 рецептора највероватније има DARC-неспецифични хемокински рецептор који местимично колокализује са CXCL1 или је испољен у његовој непосредној близини. Резултати ове студије представљају полазну основу за развој нових дијагностичких процедура код болести унутрашњег уха, пошто је примена биопсије неспојива са очувањем његове функције. Такође, описана експресија CXCL1 у одсуству инфламације указује на могуће постојање до сада непознате улоге овог хемокина у физиологији унутрашњег уха. Др Василијић дели прво ауторство у овом раду.

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5. ЦИТИРАНОСТ

Према расположивим подацима радови на којима је др Саша Василијић први аутор или коаутор цитирани су укупно 967 пута (h-index 17) према *Google Scholar* бази, односно 551 (h-index 13) према бази *Web of Science Core Collection* (WOS). Без аутоцитата, радови др Василијића су цитрани укупно 529 пута (WOS).

Преглед цитираности без аутоцитата према WOS

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6. КВАЛИТАТИВНА ОЦЕНА НАУЧНОГ ДОПРИНОСА

6.1 Показатељи успеха у научном раду

Награде и признања за научни рад

Монографија: Толерогене дендритске ћелије (Задужбина Андрејевић, Београд, 2014. ISBN 978-86-525-0181-6) др Василијића је од стране Управе за војно здравство Министарства одбране Р. Србије награђена признањем за ауторски подухват године у области медицинских наука (Београд 30. јули 2015. године).

Уводна предавања на научним конференцијама и друга предавања по позиву

Др Василијић је одржао предавање по позиву на VI Конгресу фармацеута са међународним учешћем, одржаном у Београду од 15. до 19. октобра 2014. године, на тему: „Модулација функције дендритских ћелија фармаколошким агенсима“.

На позив Удружења нефролога Србије, др Василијић је одржао предавање на 8. Школи перитонеумске дијализе (Златибор, 20. септембар 2015. године) на тему: „Генски миље и вијабилност мезотелијалних ћелија“.

У оквиру симпозијума: „Биоинжињерство и медицинска информатика у савременој дијагностици и терапији“ (Београд, 15. мај 2015. године), др Василијић је одржао предавање: „Инжињерски приступи имунотерапији“.

Чланство у научним друштвима

Др Саша Василијић је члан Друштва имунолога Србије од 2000. године, Међународног друштва за дендритске ћелије и вакцине (*International Society for Dendritic Cell & Vaccine Science, New York, USA*) од 2010. године, и Удружења за истраживања у отоларингологији (*Association for Research in Otolaryngology, New Jersey, USA*) од 2019. године.

Рецензије научних радова у часописима са ICI SCI листе

Др Василијић је стални рецензент часописа Војносанитетски преглед за област молекуларне биологије.

6.2 Ангажованост у развоју услова за научни рад, образовању и формирању научних кадрова

Допринос развоју науке у земљи

До одласка на усавршавање у САД (септембар, 2016. године), др Василијић је активно учествовао као сарадник на пројектима: „Регулаторни механизми у запаљенским и имунским реакцијама“ (МФВМА/4/13-15) чији је руководиоца проф. др Драгана Вучевић и „Истраживања биокомпатибилности наноматеријала и напредних материјала“ (МФВМА/8/13-15) којим је руководио бригадни генерал академик проф. др Миодраг Чолић.

На пројектима Министарства просвете науке и технолошког развоја Р. Србије, др Василијић учествује на пројектима: „Примена функционализованих угљеничних наноцеви и наночестица злата за припрему дендритских ћелија у терапији тумора“ (бр. 175102) и „Синтеза, развој технологија добијања и примена наноструктурних мултифункционалних материјала дефинисаних својстава“ (бр. 45019). Ови пројекти се реализују на Институту за примену нуклеарне енергије „ИНЕП“ у Београду под руководством академика Миодрага Чолића и на Технолошко-металуршком факултету Универзитета у Београду под руководством проф. др Ђорђа Јанаковића. Др Василијић је и сарадник на пројекту „Имунобиологија дендритичних ћелија у здрављу и болести“, САНУ, под руководством академика Миодрага Чолића.

Др Василијић је био члан Наставно-научног већа Медицинског факултета ВМА од 2009. до 2018. године. У периоду од децембра 2014. до марта 2017. године, др Василијић је учествовао у раду Одбора за научно-истраживачку делатност Наставно-научног већа Медицинског факултета ВМА.

У склопу активности Одбора, др Василијић је учествовао у рецензији једног научно-истраживачког пројекта (“Генетска варијабилност болесника са хематолошким малигнитетима“, научни сарадник др Бојана Цикота-Алексић, јун 2015), као и комисији за избор у научно звање (др Сергеј Томић, звање научни сарадник, јануар 2015).

Менторство при изради мастер, магистарских и докторских радова, руковођење специјалистичким радовима

У периоду од избора у звање вишег научног сарадника, др Василијић је учествовао у комисијама за оцену и одбрану једног мастер рада и две докторске дисертације. Др Саша Василијић има једно коменторство у изради докторског рада, чија је израда у току (др Владимир Турунташ).

Чланство у комисијама

Комисија за преглед и оцену мастер рада под називом: „Сојне разлике у локалном и системском имунском одговору у фази експресије реакције контактне преосетљивости на динитрохлоробензен у пацова“, кандидата Јелене Јовановић, Биолошки факултет, Универзитет у Београду (одлука: 15/259 од 12.06.2015. године).

Комисија за преглед и оцену и одбрану докторског рада под називом: “Топографија женских полних органа калифорнијског кунића *Oryztolagus cuniculus domesticus*”, докторанд мр Валентина Милановић: Факултет ветеринарске медицине, Универзитет у Београду (одлука: 01-15/48 од 23.12.2015. године, одлука: 01-24/5 од 23.03.2016. године, датум одбране доктората: 15.06.2016. године).

Комисија за преглед и оцену докторског рада под називом: „Имуноиндулаторни ефекти антикоагуланата варфарина код пацова“, докторанд мр Весна Субота: Биолошки факултет, Универзитет у Београду (одлука: 15/197 од 13.05.2016. године).

Коменторство у изради докторске дисертације:

1. мр др мед. Владимир Турунташ: “Дејство сталног магнетског поља на функцијске карактеристике хуманих мононуклеарних ћелија периферне крви *in vitro*“. Медицински факултет, Универзитет у Београду (одлука: 5940/2 од 24.12.2015. године)

Педагошки рад

У периоду од избора у звање вишег научног сарадника, др Василијић је у звању ванредног професора ангажован у извођењу наставе на Медицинском факултету ВМА Универзитета Одбране.

На интегрисаним академским студијама медицине на Медицинском факултету ВМА, др Василијић је наставник на предметима: Биологија са хуманом генетиком, Клиничка генетика, Биологија ћелије (руководилац предмета).

На академским специјалистичким студијама из Биоинжињерства и медицинске информатике на Медицинском факултету ВМА, др Василијић је наставник на предмету Имунологија и биологија ћелије за инжењере.

Од школске 2013/2014. др Василијић је ангажован на докторским студијама на Медицинском факултету ВМА, на којим учествује у настави на предметима: Хомеостаза и регулаторни механизми и Експериментални модели у биомедицини.

У досадашњем наставном раду, др Василијић је испољио стручност и вештину у излагању материје, као и спремност за пружање доданих информација у циљу мотивисања студената за научна истраживања. Поред тога, педагошки рад др Василијића укључује и менторски рад са кадетима на интегрисаним академским студијама медицине Медицинског факултета ВМА (једно менторство кадет Филип Мерњик, од октобра 2013. до септембра 2016. године).

Учешће у међународној сарадњи

У склопу међународне сарадње Универзитета одбране у Београду, др Василијић је у својству руководиоца тима (*Key person*), у периоду од октобра 2012. до јуна 2016. године, учествовао на ТЕМПУС пројекту: „Студије у биоинжињерингу и медицинској информатици“ (BioEMIS, 530423-TEMPUS-1-2012-1-UK-TEMPUS-JPCR). У склопу овог пројекта формиране су и акредитоване специјалистичке академске студије из биоинжињеринга и медицинске информатике на Медицинском факултету ВМА.

У оквиру усавршавања на Медицинском факултету Универзитета Харвард, од септембра 2016. године па надаље, др Василијић учествује у реализацији пројекта: Механизми сензоринеуралног губитка слуха: секреторни фактори (*Mechanisms of sensorineural hearing loss: secreted factors, 5R01DC015824-03*), који финансирају Национални институти за здравље, САД (*National Institutes of Health, Bethesda, Maryland, USA*). Пројекат се изводи у Болници за око и уво Масачусетса (*Massachusetts Eye and Ear*), Бостон, САД. На овом пројекту, др Василијић учествује у истраживањима везаним за испитивање молекулских маханизма деловања солубилних фактора туморске микросредине вестибуларног шванома на губитак слуха код особа оболелих од овог типа тумора. Поред тога, др Василијић учествује у испитивању имунске микросредине унутрашњег уха, радећи на моделима који укључују и примену индукованих плурипотентних матичних ћелија. Резултате својих досадашњих истраживања, са афилијацијом Медицинског факултета Универзитета Харвард, објавио је у два рада у којима дели прво ауторство и коауторство (174, 177).

Организација научних и стручних скупова

У мају 2015. године, на Војномедицинској академији у Београду, др Василијић је био организатор стручног симпозијума: „Биоинжињерство и медицинска информатика у савременој дијагностици и терапији“ (Београд, 15. мај 2015. године), на коме је председавао једном од сесија и излагао као предавач.

На VII Научном састанку Друштва имунолога Србије, који је одржан од 27. до 28. априла 2016. године у САНУ у Београду, др Василијић је био председавајући сесије: Имуномодулација.

6.3 Организација научног рада

Руковођење пројектима, потпројектима, задацима

До одласка на стручно усавршавање у САД, (септембар 2016. године), др Василијић је руководио пројектом под називом: „Функционални аспекти модулације имуногених и толерогених својстава дендритских ћелија (МФВМА/10/13-15, МФВМА/9/16-18), које је финансирало Министарство одбране Р. Србије. Пројекат се реализовао од 2013. године на Медицинском факултету ВМА Универзитета одбране у Београду.

У оквиру овог пројекта урађен је део докторске дисертације др Ивана Рајковића, под називом “Модулација диференцијације и функција хуманих лангерхансових ћелија моноцитног порекла *in vitro*“. Дисертација је одбрањена на Медицинском факултету Универзитета у Београду 13.07.2015. године. Из овог доктората произашла је и заједничка публикација са др Рајковићем у часопису M22 категорије (13).

6.4 Квалитет научних резултата

Резултати научно-истраживачког рада др Саше Василијића су објављени у укупно 199 библиографских јединица, осим објављене магистарске тезе и докторске дисертације. Укупан број објављених научних радова штампаних у целини је **57**. Од тога је **један** рад у тематском зборнику међународног значаја (M14), **12** радова у врхунским међународним часописима (M21), **6** радова у истакнутим међународним часописима (M22), **20** радова у међународним часописима (M23), **једно** предавање по позиву са међународног скупа штампано у изводу, **6** саопштења са међународног скупа штампана у целини (M33), **једна** монографија националног значаја (M42), **два** поглавља у књигама националног значаја (M45), **4** рада у водећем часопису националног значаја (M51), и **8**

радова у научном часопису (M53). Др Василијић има **138** саопштења на међународним и домаћим научним скуповима и штампаних у изводу. Од тога је **109** саопштења на скуповима међународног (M34), и **29** саопштења на скуповима националног значаја (M64). Збирни импакт фактор објављених радова је **72,966**. Радови др Василијића су без аутоцитата цитирани у **529** радова, са хиршовим индексом **13** (WOS).

Од избора у звање виши научни сарадник, односно после одлуке наставно-научног већа о предлогу за стицање звања виши научни сарадник, др Василијић је објавио **једну** монографију националног значаја (M42) и **13** радова штампаних у целини. Од радова штампаних у целини, **један** рад је у тематском зборнику међународног значаја (M14), **три** рада у врхунским међународним часописима (M21), **један** рад у истакнутом међународном часопису (M22), **6** радова у међународним часописима (M23) и **два** рада у научном часопису (M53). Др Василијић има **једно** предавање по позиву са међународног скупа штампано у изводу (M32), **11** саопштења са међународних скупова (M34) и **два** саопштења са скупова националног значаја (M64) штампаних у изводу. Збирни импакт фактор објављених радова је **18,211**. Просечан број коаутора у радовима др Василијића након избора у звање виши научни сарадник износи 7.09. Од 13 укупно објављених радова *in extenso*, др Василијић је први аутор у два рада, од којих у једном дели прво ауторство.

На основу захтева Правилника, за реизбор у звање вишег научног сарадника је потребно 25 поена (половина од 50 поена), од чега др Василијић има **65.4 поена** (56,51 нормираних). За групу радова-Обавезни 1, остварено је 57,5 поена (49,25 нормираних) од потребних 20, док је за групу радова-Обавезни 2 остварено 47 поена (38,75 нормираних) од потребних 15.

Табеле у прилогу дају сажети преглед постигнутих резултата научног рада др Саше Василијића до избора у звање виши научни сарадник (Табела 1) и након избора у звање виши научни сарадник (Табела 2).

7. ТАБЕЛА СА РЕЗУЛТАТИМА НАУЧНО-ИСТРАЖИВАЧКОГ РАДА

Сумарни приказ резултата научно-истраживачког рада др Саше Василијић :

Квантитативни показатељи научног рада пре избора у звање виши научни сарадник			
Назив групе резултата	Ознака групе резултата и вредност (број поена)	Број остварених резултата	Укупан број остварених поена
Међународни научни часописи (M20)	M21 = 8	9	72
	M22 = 5	5	25
	M23 = 3	14	42
Зборници међународних скупова (M30)	M33 = 1	6	6
	M34 = 0.5	98	49
Националне монографије и тематски зборници (M40)	M45 = 1.5	2	3
Радови у часописима националног значаја (M50)	M51 = 2	4	8
	M53 = 1	6	6
Зборници скупова националног значаја (M60)	M64 = 0.2	27	5.4
Магистрска и докторска теза (M70)	M71 = 6	1	6
	M72 = 3	1	3
Обавезни (1): M10+M20+M31+M32+M33+M41+M42		34	145
Обавезни (2): M11+M12+M21+M22+M23		28	139
УКУПНО		173	225.4

Квантитативни показатељи научног рада после избора у звање виши научни сарадник				
Назив групе резултата	Ознака групе и вредност резултата	Број остварених резултата	Укупно поена	Нормиран број поена (више од 7 аутора)
Поглавља у монографијама и тематским зборницима (M10)	M14 = 4	1	4	4
Међународни научни часописи (M20)	M21 = 8	3	24	17.44
	M22 = 5	1	5	4.17
	M23 = 3	6	18	17.14
Зборници међународних скупова (M30)	M32 = 1.5	1	1.5	1.5
	M34 = 0.5	11	5.5	4.92
Националне монографије и тематски зборници (M40)	M42 = 5	1	5	5
Радови у часописима националног значаја (M50)	M53 = 1	2	2	2
Зборници скупова националног значаја (M60)	M64 = 0.2	2	0.4	0.34
Обавезни (1) M10+M20+M31+M32+M33+ M41+M42+M90 (40)		13	57.5	49.25
Обавезни (2) M11+M12+M21+M22+M23 (30)		10	47	38.75
УКУПНО		28	65,4	56.51

**МИНИМАЛНИ КВАНТИТАТИВНИ ЗАХТЕВИ ЗА СТИЦАЊЕ ПОЈЕДИНАЧНИХ
НАУЧНИХ ЗВАЊА**

За природно-математичке и медицинске струке

Диференцијални услов-	потребно је да кандидат има најмање XX поена, који треба да припадају следећим категоријама:		
Од првог избора у претходно звање до избора у звање.....		НеопходноXX=	Остварено
Виши научни сарадник	Укупно	50	65.4 (56.51*)
Обавезни (1)	M10+M20+M31+M32+M33+M41+M42+M90	40	57.5 (49.25*)
Обавезни (2)	M11+M12+M21+M22+M23	30	47 (38.75*)

(*) - нормиран број поена

Нормирање радова је извршено на основу Прилога 1. Правилника, под 1.4 Нормирање броја коауторских радова, патената и техничких решења (шести став), дељењем броја бодова у радовима са више од седам коаутора, према формули: $K/(1+0,2(n-7))$, $n > 7$ (K - број "бодова рада према категорији", n – број аутора).

За реизбор у научно звање виши научни сарадник кандидат је обавезан да у периоду од пет година испуни најмање половину минималних квантитативних резултата потребних за избор у научно звање виши научни сарадник (Члан 35. став 2, Правилник о поступку, начину вредновања и квантитативном исказивању научноистраживачких резултата истраживача).

8. ЗАКЉУЧАК И ПРЕДЛОГ КОМИСИЈЕ

(за одлучивање упућен Наставно-научном већу, са назнаком из које шире и уже научне области, гране и дисциплине, кандидат стиче звање)

На основу увида у комплетну библиографски материјал др Саше Василијића, Комисија закључује се др Василијић успешно бави истраживањима из области базичне имунологије са посебним освртом на испитивању функционалних особина дендритских ћелија у циљу развоја оптималних протокола модулације њихове функције.

У периоду од избора у звање вишег научног сарадника, његов научноистраживачки рад се реализује на три пројекта Министарства одбране и два пројекта Министарства просвете науке и технолошког развоја Р. Србије и пројекту Националног Института за здравље САД. У свом научноистраживачком раду, др Василијић користи савремене истраживачке технике и самостално учествује у областима истраживања дендритских ћелија. Искуства стечена у његовом досадашњем раду квалификовала су га да руководи научноистраживачким пројектом који је финансиран од стране Министарства одбране Р. Србије. У свим фазама рада, др Василијић испољава кооперативност, иницијативу у тимском раду, као и способност преноса сопствених искустава и знања, чиме пружа допринос образовању младих истраживача. У досадашњем наставном раду, др Василијић показује изузетну стручност и вештину у излагању материје, као и спремност за пружање додатних информација у циљу мотивисања студената за научна истраживања. Учествовао је у изради више магистарских и докторских теза, а након избора у звање вишег научног сарадника био је ангажован као члан комисије у оцени и одбрани једне докторске дисертације, као и оцени једног магистарског рада и једне докторске дисертације. Др Саша Василијић је тренутно коментор у изради једног докторског рада, чија је научна заснованост одобрена, а реализација у току.

Преглед објављених радова после избора у звање научног сарадника показује да се научноистраживачки рад др Саше Василијић одвијао у неколико истраживачких праваца који указују и на његово учешће у реализацији научноистраживачке активности и у осталим научним центрима у земљи и иностранству.

На основу прегледа целокупне публицистичке активности, анализе научноистраживачког рада, процене научних и стручних квалитета и увида у остале пратеће активности кандидата, сматрамо да виши научни сарадник др Саша Василијић испуњава све услове предвидјене Законом о научноистраживачком раду и Правилником о избору у научна звања за реизбор у звање виши научни сарадник и предлажемо Наставно-научном већу Медицинског факултета Војномедицинске академије да утврди испуњеност услова за овај реизбор.

У Београду, 22. 10. 2019.

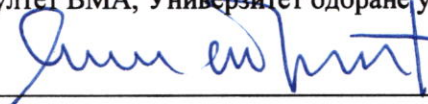
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НАСТАВНО-НАУЧНОМ ВЕЋУ МЕДИЦИНСКОГ ФАКУЛТЕТА ВОЈНОМЕДИЦИНСКЕ АКАДЕМИЈЕ УНИВЕРЗИТЕТА ОДБРАНЕ У БЕОГРАДУ

Наставно-научно веће Медицинског факултета Војномедицинске академије Универзитета одбране у Београду на седници одржаној 26.09.2019. године одредило је Комисију за утврђивање испуњености услова за избор у научно звање, у следећем саставу:

1. Академик, проф. др Миодраг Чолић, научни саветник, професор емеритус Медицинског факултета ВМА, Универзитет одбране
2. Проф. др Драгана Вучевић, научни саветник, Медицински факултет ВМА, Универзитет одбране
3. Проф. др Алекса Трбовић, научни саветник, Медицински факултет, Универзитет у Београду

Комисија је разматрала пријаву кандидата **Саше Василијића** за реизбор у звање **вишег научног сарадника** за област **природноматематичке науке-биологија** и подноси следећи

ИЗВЕШТАЈ

1. БИОГРАФСКИ ПОДАЦИ

Др Саша, Ранко, Василијић је рођен 20. септембра 1969. године у Зајечару. Биолошки факултет у Београду, одсек Општа биологија, је завршио 1995. године са просечном оценом 9.15. Од 21. 04.2000. године је у сталном радном односу у Институту за медицинска истраживања, Војномедицинске академије у Београду, где тренутно обавља дужност начелника Одсека за ћелијско и ткивно биоинжињерство.

Последипломске студије из Имунобиологије на Биолошком факултету Универзитета у Београду уписао је школске 1996/97 године, а магистарску тезу под називом "Модулација морфолошких, фенотипских и функционалних својстава дендритичних ћелија тимуса пацова *in vitro* помоћу фактора раста гранулоцитно-моноцитних колонија" успешно је одбранио 2002. године.

На истом факултету је јуна 2008. године одбранио докторску дисертацију под називом: "Модулација функционалних својстава CD11b⁺ и CD11b⁻ субпопулације тимусних дендритичних ћелија пацова *in vitro* помоћу фактора раста гранулоцитно-моноцитних колонија".

У звање научног сарадника је изабран 28.12.2009. године, вишег научног сарадника 26. марта 2015. године. У звање доцента за ужу научну област биологија са хуманом генетиком је изабран 03.12.2009. године, док је у звање ванредног професора изабран 3.12.2014. године на Медицинском факултету Војномедицинске академије Универзитета одбране у Београду.

Од 2011. године др Василијић је на месту начелника Одсека за ћелијско и ткивно биоинжињерство у одељењу за Молекулску медицину, Института за медицинска истраживања ВМА.

Од септембра 2016. године, др Василијић се налази на стручном усавршавању (*Visiting Research Scholar*) на Медицинском факултету Универзитета Харвард (*School of Medicine, Harvard University*) / Болница за око и уво Масачусетса (*Massachusetts Eye and Ear*), Бостон, САД.

2. БИБЛИОГРАФИЈА

2.1. РАДОВИ ОБЈАВЉЕНИ ПРЕ ИЗБОРА У ЗВАЊЕ ВИШИ НАУЧНИ САРАДНИК:

M21 - Рад у врхунском међународном часопису (8,0)

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M45 - Поглавље у књизи M42 или рад у тематском зборнику националног значаја (1,5)

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M51 – Рад у водећем часопису националног значаја (2)

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M53 - Рад у научном часопису (1,0)

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M64 - Саопштење са скупа националног значаја штампано у изводу (0,2)

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153. **Vasilijić S**, Maksić Đ, Vučević D, Majstorović I, Gašić S, Čolić M. Efekat lipopolisaharida na maturaciju dendritičnih ćelija diferenciranih in vitro od peritoneumskih makrofaga pacijenata u ranom stadijumu peritoneumske dijalize [abstrakt]. V Naučni sastanak udruženja alergologa i kliničkih imunologa Srbije i Društva imunologa Srbije, Beograd, 22-24 mart, 2007. Abstrakt IR-U8.
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M71 – Одбрањена докторска дисертација (6)

172. Saša Vasilijić. Modulacija funkcionalnih svojstava CD11b⁺ i CD11b⁻ subpopulacije timusnih dendritičnih ćelija pacova in vitro pomoću faktora rasta granulocitno-monocitnih kolonija. Biološki fakultet, Univerzitet u Beogradu, Beograd 2008.

M72 – Одбрањен магистарски рад (3)

173. Saša Vasilijić. Modulacija morfoloških, fenotipskih i funkcionalnih svojstava dendritičnih ćelija timusa pacova in vitro pomoću faktora rasta granulocitno-monocitnih kolonija. Biološki fakultet, Univerzitet u Beogradu, Beograd 2002.

2.2. РАДОВИ ОБЈАВЉЕНИ ПОСЛЕ ИЗБОРА У ЗВАЊЕ ВИШИ НАУЧНИ САРАДНИК

M14 - Рад у тематском зборнику међународног значаја (4,0)

174. Landegger D*, **Vasilijic S***, Fujita T, Soares V, Seist R, Xu L, and Stankovic K. Cytokine levels in inner ear fluid of young and aged mice as molecular biomarkers of noise-induced hearing loss. Front. Neurol. 2019. Research Topic: Neuroimmunology of the Inner Ear. doi: 10.3389/fneur.2019.00977

*-подједнако ауторство

(IF=2.635, Clinical Neurology, 100/199, подаци за 2018. годину)

M21 - Рад у врхунском међународном часопису (8,0)

175. Pavlovic B, Tomic S, Djokic J, **Vasilijic S**, Vucevic D, Lukic J, Gruden-Movsesijan A, Ilic N, Markovic M. and Colic M. Fast dendritic cells matured with Poly (I:C) may acquire tolerogenic properties. *Cytotherapy*, 2015. 17(12): 1763-76

(IF=3.625, *Biotechnology & Applied Microbiology* 38/161, подаци за 2015. годину)

**Нормирано: 5.00*

176. Cetenovic B, Prokic B, **Vasilijic S**, Dojcinovic B, Magic M, Jokanovic V, Markovic D. Biocompatibility investigation of new endodontic materials based on nanosynthesized calcium silicates combined with different radiopacifiers. *J Endod.* 2017 Mar;43(3):425-432.

(IF=2.886, *Dentistry, Oral Surgery & Medicine* 13/91, подаци за 2017. годину)

177. Sagers J, Brown A, **Vasilijic S**, Lewis R, Sahin M, Landegger L, Perlis R, Kohane I, Welling B, Patel C, Stankovic K. Computational repositioning and preclinical validation of mifepristone for human vestibular schwannoma. *Scientific Reports*, 2018; 8 (1) DOI: 10.1038/s41598-018-23609-7

(IF=4.525, *Multydisciplinary Sciences* 13/69, подаци за 2018. годину)

**Нормирано: 4.44*

M22 - Рад у истакнутом међународном часопису (5,0)

178. Cetenovic B, Colovic B, **Vasilijic S**, Prokic B, Pasalic S, Jokanovic V, Teravcevic Z, Markovic D. Nanostructured endodontic materials mixed with different radiocontrast agents-biocompatibility study. *J Mater Sci Mater Med.* 2018 Dec 10;29(12):190.

(IF=2.467, *Engineering, Biomedical*, 34/80, подаци за 2018. годину)

**Нормирано: 4.17*

M23 - Рад у међународном часопису (3,0)

179. Vasilev S, Ilic N, Gruden-Movsesijan A, **Vasilijic S**, Bosic M, Sofronic-Milosavljevic L. Necrosis and apoptosis in *Trichinella spiralis*-mediated tumour reduction. *Central European Journal of Immunology.* 2015;40(1):42-53.

(IF=0.309, *Immunology* 151/151, подаци за 2015. годину)

180. Mikic D, **Vasilijic S**, Cucuz M, Colic M. Clinical significance of soluble Fas plasma levels in patients with sepsis. *Vojnosanit Pregl* 2015; 72(7): 608–613.

(IF=0.355, *Medicine, General & Internal* 134/155, подаци за 2015. годину)

181. Jevtic A., Todorovic M., Ostojic G., **Vasilijic S.**, Pavlovic M., Balint B. Autologous transfusions for elective surgery – from existing approaches to upcoming challenges. *Vojnosanit Pregl.* 2017; 74(7): 676-680.

(IF=0.405, *Medicine, General & Internal* 144/155, подаци за 2017. годину)

182. Milanovic V., Radovanovic A., **Vasilijic S.**, Mrvic V., Milosevic B. Histological And Immunological Changes in Uterus During the Different Reproductive Stages at Californian Rabbit (*Oryctolagus cuniculus*) *Kafkas Univ Vet Fak.* 2017. 23, 137-144. DOI: 10.9775/kvfd.2016.16008

(IF=0.452, *Veterinary*, подаци за 2017. годину)

183. Magic M., Colovic B., Jokanovic V., **Vasilijic S.**, Markovic M., Vucevic D., Rudolf R., Colic S., Colic M. Cytotoxicity of titanium alloy coated with hydroxyapatite by plasma jet deposition. *Vojnosanit Pregl.* 2019; 76 (5): 492-501.

(IF=0.272, *Medicine, General & Internal* 155/160, подаци за 2018. годину)

**Нормирано: 2.14*

M34 - Саопштење са међународног скупа штампано у изводу (0,5)

184. Bokonjic D., Stojnic N., Colic M., Mihajlovic D., **Vasilijic S.**, Minic P., Vucevic D. Impaired neutrophil extracellular traps formation in children suffering from cystic fibrosis. 14th International Congress on Pediatric Pulmonology, Krakow, Poland, June 25–28, 2015. Pediatric Pulmonology, Volume 50, Issue S39 ppS69
185. **Vasilijic S.**, Vucevic D, Markovic M, Bozic B, Rajkovic I, Kostic Z, Jankovic S, Mikic D, Colic M. Tissue conditioned media from colorectal carcinoma stimulate in an inverse dose-dependent manner accessory capacity of human monocyte - derived dendritic cells. 4th European Congress of Immunology (ECI), Vienna, September 6-9, 2015. Abstract book, pp505.

**Нормирано: 0.36*

186. **Vasilijic S.**, Markovic M, Vucevic D, Bozic B, Rajkovic I, Kostic Z, Jankovic S, Mikic D, Colic M. Response of monocyte - derived dendritic cells, pretreated with tissue conditioned media from colorectal carcinoma, to TLR-3 and TLR-7 agonists. 4th European Congress of Immunology (ECI), Vienna, September 6-9, 2015. Abstract book, pp504.

**Нормирано: 0.36*

187. Rajkovic I, **Vasilijic S.**, Vucevic D, Thorne A, Markovic M, Colic M. Modulation of T-helper polarizing capability of human monocyte derived Langerhans cells by TLR-3 and Dectin-1 agonists. 4th European Congress of Immunology (ECI), Vienna, September 6-9, 2015. Abstract book, pp158.
188. Zmijanjac D, Markovic M, **Vasilijic S.**, Vucevic D, Cilerdzic J, Stajic M, Vukojevic J, Bozic B. Effect of Ganoderma lucidum basidiocarps cultivated on alternative substrate to functional aspects of human monocyte-derived dendritic cells. 4th European Congress of Immunology (ECI), Vienna, September 6-9, 2015. Abstract book, pp566.

**Нормирано: 0.42*

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190. Turuntas V, **Vasilijic S.**, Trbovich M. Effects of long-term low strength static magnetic field exposure on Th polarization in vitro. Pediatric Allergy and Asthma Meeting - PAAM 2017, 26 - 28 October, 2017, London, UK
191. Cetenovic B, Colovic B, **Vasilijic S.**, Jokanovic V, Markovic D. Nanostructured Endodontic Materials Based on Highly Active Calcium Silicates-Biocompatibility Study. 22nd BaSS, Thessaloniki 2017; Abstract Book:145.
192. Sagers JE, Brown AS, **Vasilijic S.**, Lewis R, Sahin MI, Landegger LD, Perlis RH, Kohane IS, Welling DB, Patel CJ, Stankovic KM. "Computational repositioning and preclinical validation of mifepristone for human vestibular schwannoma." Poster presentation, 41st Association for Research in Otolaryngology (ARO) Midwinter Meeting, February 9-14, 2018. San Diego, CA, USA, ARO Abstracts, Vol. 41: 52.

**Нормирано: 0.28*

193. Landegger L; Fujita T; **Vasilijic S.**, Soares V, Xu L, Stankovic K. Cytokine Levels in Perilymph of Young and Aged Mice as Molecular Biomarkers of Noise-Induced Hearing Loss. 42nd Association for Research in Otolaryngology (ARO) Midwinter Meeting, February 9-13, 2019. Baltimore, MD, USA, ARO Abstracts, Vol. 42: 345.

M53 - Рад у научном часопису (1,0)

194. **S. Vasilijic**, D. Vučević, I. Rajković, Majstorović I. i M. Čolić. Efekat GM-CSF-a na endocitoznu aktivnost CD11b⁻ i CD11b⁺ subpopulacije timusnih dendritskih ćelija pacova in vitro. Bilt Transfuziol. 2015;60(1-2):50-57

195. Ćetenović, B., Ćolović, B., **Vasilijić, S.**, Pašalić, S., Jokanović, V., Marković, D. (2017). In Vitro Biocompatibility of Nanostructured Endodontic Materials Using SCAP Cells. *Balkan Journal of Dental Medicine*. 2017; 21(3):167-170.

M64 - Саопштење са скупа националног значаја штампано у изводу (0,2)

196. Mihajlović D., Vučević D., Tomić S., **Vasilijić S.**, Rajković I., Ćolić M. Imunomodulatorna i antioksidativna svojstva 10-hidroksi-2-dekanoičне киселине. VII Naučni sastanak Društva imunologa Srbije, SANU, Beograd, 27- 28. april 2016. године. Knjiga abstrakata, str. 12.
197. Nedeljković P., Zmijanac D., Drašković-Pavlović B., Vučević D., Vasiljevska M., Marković M., **Vasilijić S.**, Bumbaširević M., Božić B. Terapija vitaminom B pomaže u regeneraciji perifernog nerva i moduliše aktivnost peritonealnih makrofaga na modelu povrede femoralnog nerva pacova. VII Naučni sastanak Društva imunologa Srbije, SANU, Beograd, 27- 28. april 2016. године. Knjiga abstrakata, str. 7.

**Нормирано: 0.14*

2.3. РАДОВИ ПУБЛИКОВАНИ ПОСЛЕ ОДЛУКЕ НАСТАВНО-НАУЧНОГ ВЕЋА О ПРЕДЛОГУ ЗА СТИЦАЊЕ ЗВАЊА ВИШИ НАУЧНИ САРАДНИК (Одлука бр. 12/22, донета на 22. седници Наставно-научног већа Медицинског факултета ВМА, одржаној 25. септембра 2014. године)

M23 - Рад у међународном часопису (3,0)

198. Majstorović I, Vučević D, Pavlović B, **Vasilijić S.**, Ćolić M. An anti-DEC-205 monoclonal antibody stimulates binding of thymocytes to rat thymic dendritic cells and promotes apoptosis of thymocytes. *Cent Eur J Immunol*. 2014;39(4):411-8. doi: 10.5114/ceji.2014.47722. Epub 2014 Dec 15.

(IF=0.280, Immunology 147/148, подаци за 2014. годину)

M32 - Предавање по позиву са међународног скупа штампано у изводу (1,5)

199. **Vasilijić S.** Modulation of Dendritic Cell Functions by Pharmacological Agents. Invited lectures. VI Serbian Congress of Pharmacy with International Participations. October 15th-19th 2014. Belgrade. Abstract book: The Role of Pharmacy in the Health Service Science and Practice. p 46. ISBN 978-86-918145-0-2

M34 - Саопштење са међународног скупа штампано у изводу (0,5)

200. Turuntas V, De Luka SR, Trbovich AM, **Vasilijic S.** Effects of long-term low strength static magnetic field exposure on Th polarization in vitro. *Allergy*. [Meeting Abstract]. 2014 Sep;69:201-2.

M42 - Монографија националног значаја (5,0)

201. **Василијић С.** Толерогене дендритске ћелије, Задужбина Андрејевић, Београд, новембар 2014. ISBN 978-86-525-0181-6.

3. АНАЛИЗА РАДОВА (који кандидата квалификују у предложено звање) – кратак опис радова груписаних према сличној проблематици

Преглед објављених радова др Саше Василијић после избора у звање виши научни сарадник показује да се његов научно-истраживачки рад одвијао у неколико паралелних праваца истраживања.

У монографији под називом: *Толерогене дендритске ћелије* (201), др Василијић је дао свеобухватан преглед литературних података о улози дендритских ћелија (DC) у централној и периферној имунолошкој толеранцији. Коментаришући резултате својих претходних истраживања, др Василијић указује на улогу фактора стимулације раста колонија гранулоцита и макрофага (GM-CSF) у модулацији функцијских карактеристика субпопулација тимусних DC (TDC), односно стицање толерогених својстава DC током развоја инфламације. Вредност монографије додатно потврђује растућа цитираност ауторских радова др Василијића који су реферисани у његовој монографији. Према ревијалном раду објављеном у часопису *Seminars in Immunology (Vol. 29, February 2017, page-33-40)*, у монографији цитирана студија др Василијића о толерогеним DC (18) представља једино, познато истраживање о улози DC у акутној и хроничној инфламацији, као и у процесу зарастања ране око имплантираних биоматеријала. За ову монографију, др Василијић је награђен за ауторски подухват године у области медицинских наука, од стране Управе за војно здравство Министарства одбране Р. Србије (Београд 30. јули 2015. године).

Истраживања из области имунобиологије DC, у којима је учествовао др Василијић у претходном периоду, односе се на изналажење оптималних протокола припреме имуностимулаторних DC (175) и испитивање модулације функције TDC и њихове интеракције са ћелијама тимусне микросредине (194, 198).

У студији изведеној на хуманим DC моноцитног порекла показано је да 24-часовна диференцијација DC и потоња 48-часовна стимулација њиховог сазревања применом агониста Toll-сличних рецептора -3 (TLR3) може довести до настанка DC са толерогеним карактеристикама (175). Код 7 од укупно 12 донора, DC су испољавале значајно нижу експресију маркера зрелих DC, као и изражено својство усмеравања цитокинског одговора Т лимфоцита ка Th2 профилу. Ове ћелије се одликују и већом експресијом имуно-инхибиторних фактора (попут IL-10 и IDO молекула) и способношћу индукције регулаторних Т лимфоцита. Ови налази указују да се DC могу генерисати применом скраћеног поступка диференцијације (24 часова, уместо 5 дана), међутим њихова функционалност варира између различитих донора, од имуностимулаторних до имуноинхибиторних ћелија. Практични аспект ове студије је спознаја ограничења протокола убрзане припреме DC које би се користиле у имуноterapiји тумора.

У студији која се односи на испитивање модулације функционалних карактеристика TDC испитан је ефекат GM-CSF на ендцитозну активност субпопулација TDC (194). Показано је да су CD11b⁻ DC супериорније у ендцитози солубилних продуката (декстран), док нема разлике између CD11b⁻ и CD11b⁺ субпопулације TDC у њиховој способности фагоцитозе апоптоичних тимоцита. У односу на деловање GM-CSF, CD11b⁺ TDC одговарају значајно већом ендцитозном и фагоцитозном активношћу у поређењу са CD11b⁻ субпопулацијом TDC. Резултати ове студије указују да GM-CSF као солубилни фактор тимусне микросредине може имати улогу селективног регулатора процеса интернализије антигена у тимусу. У другој студији у којој је др Василијић учествовао, испитана је експресија DEC-205 молекула на ћелијама тимусне микросредине и његова улога у развоју и функционалној активности Т лимфоцита *in vitro* (198). Показано је да је овај молекул испољен на кортикалним тимусним епителним ћелијама и TDC *in situ*. Применом HD83 моноклонског антитела, које специфично препознаје DEC-205 молекул, долази до активације овог молекула и поспешивања интеракције између тимоцита и TDC *in vitro*, као и апоптозе тимоцита. Значај ових резултата је указивање на могућу недовољно познату улогу DEC-205 молекула у апоптози и селекцији тимоцита.

У протеклом периоду, посебан део истраживања др Василијића је реализован у оквиру научно-истраживачке сарадње на пројекатима других научних установа у земљи и иностранству. У оквиру ове целине издвајају се следећа истраживања:

- испитивање биокомпатибилности нових ендодонтских материјала израђених применом савремених технологија наносинтезе (176,178,195) и плазма депозиције (183),
- испитивање анти-туморског ефекта трихинеле (*Trichinella spiralis*) на експерименталном моделу мишићег меланома (179),
- испитивање клиничког значаја нивоа солубилног FAS молекула код пацијената са сепсом (180),
- анализа дистрибуције имунских ћелија у репродуктивном тракту кунића током различитих репродуктивних стања (182).

У овим истраживањима, др Василијић је био носилац *in vitro* испитивања различитих аспеката биологије ћелија (метаболичка активност, пролиферација, некроза, апоптоза) и фенотипске карактеризације ћелија и ткива.

Засебну целину истраживачког рада др Василијића чине истраживања које се реализују у склопу његовог научног усавршавања у САД. Током досадашњег боравка на Универзитету Харвард (септембар 2016. године – октобар 2019. године), др Василијић је активно учествовао у испитивању деловања солубилних фактора тумора шванових ћелија вестибуларног нерва (вестибуларни шваном) на губитак слуха оболелих од овог типа тумора, као и у карактеризацији имунске микросредине унутрашњег уха.

Др Василијић је учествовао у до сада највећој изведеној студији- мета анализи транскриптома вестибуларног шванома, која је за циљ имала идентификацију лека који инхибира раст ћелија вестибуларног шванома. Софтверском анализом електронских база експресије гена (*NCBI GEO*), биохемијских сигналних путева (*Ingenuity Pathway Analysis*) и алтернативне терапијске примене већ постојећих лекова (*ksRepo*), анализирано је преко 1100 лекова одобрених од стране Америчке агенције за храну и лекове (FDA) и идентификовано неколико лекова као потенцијалних кандидата за лечење вестибуларног шванома. Међу овим лековима, као најефикаснији је идентификован Мифепристон, лек који се у досадашњој клиничкој пракси користио за спречавање нежељене трудноће. Ово истраживање је на *in vitro* моделу показало да Мифепристон значајно инхибира раст вестибуларног шванома. Резултати су публиковани у часопису категорије M21, где је др Василијић трећи аутор од укупно 11 аутора (177).

У склопу карактеризације имунске микросредине унутрашњег уха, посебно место чини студија у којој је до сада по први пут анализиран цитокински профил перилимфе унутрашњег уха миша (174). У овој студији је показана изводљивост узорковања 0.5µl перилимфе са различитих локација унутрашњег уха. Из ове запремине је могуће урадити анализу цитокинског профила и осталих солубилних маркера који могу имати улогу биомаркера у дијагностици различитих патолошких стања повезаних са губитком слуха. Резултати овог истраживања су показали да међу проинфламаторним медијаторима, рапидно и највеће повећање концентрације у перилимфи након акустичне трауме има CXCL1 хемокин. Поред тога, потпуно неочекиван налаз ове студије је конститутивна експресија CXCL1 у потпорним ћелијама унутрашњег уха под физиолошким условима, што представља први описан налаз ћелијске дистрибуције овог хемокина у унутрашњем уху. Осим тога, у овој студији је показано да улогу CXCL1 рецептора највероватније има DARC- неспецифични хемокински рецептор који местимично колокализује са CXCL1 или је испољен у његовој непосредној близини. Резултати ове студије представљају полазну основу за развој нових дијагностичких процедура код болести унутрашњег уха, пошто је примена биопсије неспојива са очувањем његове функције. Такође, описана експресија CXCL1 у одсуству инфламације указује на могуће постојање до сада непознате улоге овог хемокина у физиологији унутрашњег уха. Др Василијић дели прво ауторство у овом раду.

4. НАЈЗНАЧАЈНИЈА НАУЧНА ОСТВАРЕЊА

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*-подједнако ауторство

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5. ЦИТИРАНОСТ

Према расположивим подацима радови на којима је др Саша Василијић први аутор или коаутор цитирани су укупно 967 пута (h-index 17) према *Google Scholar* бази, односно 551 (h-index 13) према бази *Web of Science Core Collection* (WOS). Без аутоцитата, радови др Василијића су цитрани укупно 529 пута (WOS).

Преглед цитираности без аутоцитата према WOS

Рад: Colic M, Gasic S, **Vasilijic S**, Pejanovic V, Jandric D, Medic-Mijacevic L, Rakic L. *A nucleoside analogue, 7-thia-8-oxoguanosine stimulates proliferation of thymocytes in vitro. Immunol Lett* 1999;69(3):293-300.

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6. КВАЛИТАТИВНА ОЦЕНА НАУЧНОГ ДОПРИНОСА

6.1 Показатељи успеха у научном раду

Награде и признања за научни рад

Монографија: Толерогене дендритске ћелије (Задужбина Андрејевић, Београд, 2014. ISBN 978-86-525-0181-6) др Василијића је од стране Управе за војно здравство Министарства одбране Р. Србије награђена признањем за ауторски подухват године у области медицинских наука (Београд 30. јули 2015. године).

Уводна предавања на научним конференцијама и друга предавања по позиву

Др Василијић је одржао предавање по позиву на VI Конгресу фармацеута са међународним учешћем, одржаном у Београду од 15. до 19. октобра 2014. године, на тему: „Модулација функције дендритских ћелија фармаколошким агенсима“.

На позив Удружења нефролога Србије, др Василијић је одржао предавање на 8. Школи перитонеумске дијализе (Златибор, 20. септембар 2015. године) на тему: „Генски миље и вијабилност мезотелијалних ћелија“.

У оквиру симпозијума: „Биоинжињерство и медицинска информатика у савременој дијагностици и терапији“ (Београд, 15. мај 2015. године), др Василијић је одржао предавање: „Инжињерски приступи имунотерапији“.

Чланство у научним друштвима

Др Саша Василијић је члан Друштва имунолога Србије од 2000. године, Међународног друштва за дендритске ћелије и вакцине (*International Society for Dendritic Cell & Vaccine Science, New York, USA*) од 2010. године, и Удружења за истраживања у отоларингологији (*Association for Research in Otolaryngology, New Jersey, USA*) од 2019. године.

Рецензије научних радова у часописима са ICI SCI листе

Др Василијић је стални рецензент часописа Војносанитетски преглед за област молекуларне биологије.

6.2 Ангажованост у развоју услова за научни рад, образовању и формирању научних кадрова

Допринос развоју науке у земљи

До одласка на усавршавање у САД (септембар, 2016. године), др Василијић је активно учествовао као сарадник на пројектима: „Регулаторни механизми у запаљенским и имунским реакцијама“ (МФВМА/4/13-15) чији је руководилац проф. др Драгана Вучевић и „Истраживања биокомпатибилности наноматеријала и напредних материјала“ (МФВМА/8/13-15) којим је руководио бригадни генерал академик проф. др Миодраг Чолић.

На пројектима Министарства просвете науке и технолошког развоја Р. Србије, др Василијић учествује на пројектима: „Примена функционализованих угљеничних наноцеви и наночестица злата за припрему дендритских ћелија у терапији тумора“ (бр. 175102) и „Синтеза, развој технологија добијања и примена наноструктурних мултифункционалних материјала дефинисаних својстава“ (бр. 45019). Ови пројекти се реализују на Институту за примену нуклеарне енергије „ИНЕП“ у Београду под руководством академика Миодрага Чолића и на Технолошко-металуршком факултету Универзитета у Београду под руководством проф. др Ђорђа Јанаћковића. Др Василијић је и сарадник на пројекту „Имунобиологија дендритичних ћелија у здрављу и болести“, САНУ, под руководством академика Миодрага Чолића.

Др Василијић је био члан Наставно-научног већа Медицинског факултета ВМА од 2009. до 2018. године. У периоду од децембра 2014. до марта 2017. године, др Василијић је учествовао у раду Одбора за научно-истраживачку делатност Наставно-научног већа Медицинског факултета ВМА.

У склопу активности Одбора, др Василијић је учествовао у рецензији једног научно-истраживачког пројекта (“Генетска варијабилност болесника са хематолошким малигнитетима“, научни сарадник др Бојана Цикота-Алексић, јун 2015), као и комисији за избор у научно звање (др Сергеј Томић, звање научни сарадник, јануар 2015).

Менторство при изради мастер, магистарских и докторских радова, руковођење специјалистичким радовима

У периоду од избора у звање вишег научног сарадника, др Василијић је учествовао у комисијама за оцену и одбрану једног мастер рада и две докторске дисертације. Др Саша Василијић има једно коменторство у изради докторског рада, чија је израда у току (др Владимир Турунташ).

Чланство у комисијама

Комисија за преглед и оцену мастер рада под називом: „Сојне разлике у локалном и системском имунском одговору у фази експресије реакције контактне преосетљивости на динитрохлоробензен у пацова“, кандидата Јелене Јовановић, Биолошки факултет, Универзитет у Београду (одлука: 15/259 од 12.06.2015. године).

Комисија за преглед и оцену и одбрану докторског рада под називом: “Топографија женских полних органа калифорнијског кунића *Oryzctolagus cuniculus domesticus*”, докторанд мр Валентина Милановић: Факултет ветеринарске медицине, Универзитет у Београду (одлука: 01-15/48 од 23.12.2015. године, одлука: 01-24/5 од 23.03.2016. године, датум одбране доктората: 15.06.2016. године).

Комисија за преглед и оцену докторског рада под називом: „Имуноимодулаторни ефекти антикоагуланата варфарина код пацова“, докторанд мр Весна Субота: Биолошки факултет, Универзитет у Београду (одлука: 15/197 од 13.05.2016. године).

Коменторство у изради докторске дисертације:

1. мр др мед. Владимир Турунташ: “Дејство сталног магнетског поља на функцијске карактеристике хуманих мононуклеарних ћелија периферне крви *in vitro*“. Медицински факултет, Универзитет у Београду (одлука: 5940/2 од 24.12.2015. године)

Педагошки рад

У периоду од избора у звање вишег научног сарадника, др Василијић је у звању ванредног професора ангажован у извођењу наставе на Медицинском факултету ВМА Универзитета Одбране.

На интегрисаним академским студијама медицине на Медицинском факултету ВМА, др Василијић је наставник на предметима: Биологија са хуманом генетиком, Клиничка генетика, Биологија ћелије (руководилац предмета).

На академским специјалистичким студијама из Биоинжињерства и медицинске информатике на Медицинском факултету ВМА, др Василијић је наставник на предмету Имунологија и биологија ћелије за инжењере.

Од школске 2013/2014. др Василијић је ангажован на докторским студијама на Медицинском факултету ВМА, на којим учествује у настави на предметима: Хомеостаза и регулаторни механизми и Експериментални модели у биомедицини.

У досадашњем наставном раду, др Василијић је испољио стручност и вештину у излагању материје, као и спремност за пружање доданих информација у циљу мотивисања студената за научна истраживања. Поред тога, педагошки рад др Василијића укључује и менторски рад са кадетима на интегрисаним академским студијама медицине Медицинског факултета ВМА (једно менторство кадет Филип Мерњик, од октобра 2013. до септембра 2016. године).

Учешће у међународној сарадњи

У склопу међународне сарадње Универзитета одбране у Београду, др Василијић је у својству руководиоца тима (*Key person*), у периоду од октобра 2012. до јуна 2016. године, учествовао на ТЕМПУС пројекту: „Студије у биоинжињерингу и медицинској информатици“ (BioEMIS, 530423-TEMPUS-1-2012-1-UK-TEMPUS-JPCR). У склопу овог пројекта формиране су и акредитоване специјалистичке академске студије из биоинжињеринга и медицинске информатике на Медицинском факултету ВМА.

У оквиру усавршавања на Медицинском факултету Универзитета Харвард, од септембра 2016. године па надаље, др Василијић учествује у реализацији пројекта: Механизми сензоринеуралног губитка слуха: секреторни фактори (*Mechanisms of sensorineural hearing loss: secreted factors*, 5R01DC015824-03), који финансирају Национални институти за здравље, САД (*National Institutes of Health, Bethesda, Maryland, USA*). Пројекат се изводи у Болници за око и уво Масачусетса (*Massachusetts Eye and Ear*), Бостон, САД. На овом пројекту, др Василијић учествује у истраживањима везаним за испитивање молекулских маханизма деловања солубилних фактора туморске микросредине вестибуларног шванома на губитак слуха код особа оболелих од овог типа тумора. Поред тога, др Василијић учествује у испитивању имунске микросредине унутрашњег уха, радећи на моделима који укључују и примену индукованих плурипотентних матичних ћелија. Резултате својих досадашњих истраживања, са афилијацијом Медицинског факултета Универзитета Харвард, објавио је у два рада у којима дели прво ауторство и коауторство (174, 177).

Организација научних и стручних скупова

У мају 2015. године, на Војномедицинској академији у Београду, др Василијић је био организатор стручног симпозијума: „Биоинжињерство и медицинска информатика у савременој дијагностици и терапији“ (Београд, 15. мај 2015. године), на коме је председавао једном од сесија и излагао као предавач.

На VII Научном састанку Друштва имунолога Србије, који је одржан од 27. до 28. априла 2016. године у САНУ у Београду, др Василијић је био председавајући сесије: Имуномодулација.

6.3 Организација научног рада

Руковођење пројектима, потпројектима, задацима

До одласка на стручно усавршавање у САД, (септембар 2016. године), др Василијић је руководио пројектом под називом: „Функционални аспекти модулације имуногених и толерогених својстава дендритских ћелија (МФВМА/10/13-15, МФВМА/9/16-18), које је финансирало Министарство одбране Р. Србије. Пројекат се реализовао од 2013. године на Медицинском факултету ВМА Универзитета одбране у Београду.

У оквиру овог пројекта урађен је део докторске дисертације др Ивана Рајковића, под називом “Модулација диференцијације и функција хуманих лангерхансових ћелија моноцитног порекла *in vitro*“. Дисертација је одбрањена на Медицинском факултету Универзитета у Београду 13.07.2015. године. Из овог доктората произашла је и заједничка публикација са др Рајковићем у часопису М22 категорије (13).

6.4 Квалитет научних резултата

Резултати научно-истраживачког рада др Саше Василијића су објављени у укупно 199 библиографских јединица, осим објављене магистарске тезе и докторске дисертације. Укупан број објављених научних радова штампаних у целини је 57. Од тога је један рад у тематском зборнику међународног значаја (М14), 12 радова у врхунским међународним часописима (М21), 6 радова у истакнутим међународним часописима (М22), 20 радова у међународним часописима (М23), једно предавање по позиву са међународног скупа штампано у изводу, 6 саопштења са међународног скупа штампана у целини (М33), једна монографија националног значаја (М42), два поглавља у књигама националног значаја (М45), 4 рада у водећем часопису националног значаја (М51), и 8

радова у научном часопису (M53). Др Василијић има **138** саопштења на међународним и домаћим научним скуповима и штампаних у изводу. Од тога је **109** саопштења на скуповима међународног (M34), и **29** саопштења на скуповима националног значаја (M64). Збирни импакт фактор објављених радова је **72,966**. Радови др Василијића су без аутоцитата цитирани у **529** радова, са хиршовим индексом **13** (WOS).

Од избора у звање виши научни сарадник, односно после одлуке наставно-научног већа о предлогу за стицање звања виши научни сарадник, др Василијић је објавио **једну** монографију националног значаја (M42) и **13** радова штампаних у целини. Од радова штампаних у целини, **један** рад је у тематском зборнику међународног значаја (M14), **три** рада у врхунским међународним часописима (M21), **један** рад у истакнутом међународном часопису (M22), **6** радова у међународним часописима (M23) и **два** рада у научном часопису (M53). Др Василијић има **једно** предавање по позиву са међународног скупа штампано у изводу (M32), **11** саопштења са међународних скупова (M34) и **два** саопштења са скупова националног значаја (M64) штампаних у изводу. Збирни импакт фактор објављених радова је **18,211**. Просечан број коаутора у радовима др Василијића након избора у звање виши научни сарадник износи 7.09. Од 13 укупно објављених радова *in extenso*, др Василијић је први аутор у два рада, од којих у једном дели прво ауторство.

На основу захтева Правилника, за реизбор у звање вишег научног сарадника је потребно 25 поена (половина од 50 поена), од чега др Василијић има **65.4 поена** (56,51 нормираних). За групу радова-Обавезни 1, остварено је 57,5 поена (49,25 нормираних) од потребних 20, док је за групу радова-Обавезни 2 остварено 47 поена (38,75 нормираних) од потребних 15.

Табеле у прилогу дају сажети преглед постигнутих резултата научног рада др Саше Василијића до избора у звање виши научни сарадник (Табела 1) и након избора у звање виши научни сарадник (Табела 2).

7. ТАБЕЛА СА РЕЗУЛТАТИМА НАУЧНО-ИСТРАЖИВАЧКОГ РАДА

Сумарни приказ резултата научно-истраживачког рада др Саше Василијић :

Квантитативни показатељи научног рада пре избора у звање виши научни сарадник			
Назив групе резултата	Ознака групе резултата и вредност (број поена)	Број остварених резултата	Укупан број остварених поена
Међународни научни часописи (M20)	M21 = 8	9	72
	M22 = 5	5	25
	M23 = 3	14	42
Зборници међународних скупова (M30)	M33 = 1	6	6
	M34 = 0.5	98	49
Националне монографије и тематски зборници (M40)	M45 = 1.5	2	3
Радови у часописима националног значаја (M50)	M51 = 2	4	8
	M53 = 1	6	6
Зборници скупова националног значаја (M60)	M64 = 0.2	27	5.4
Магистрска и докторска теза (M70)	M71 = 6	1	6
	M72 = 3	1	3
Обавезни (1): M10+M20+M31+M32+M33+M41+M42		34	145
Обавезни (2): M11+M12+M21+M22+M23		28	139
УКУПНО		173	225.4

Квантитативни показатељи научног рада после избора у звање виши научни сарадник				
Назив групе резултата	Ознака групе резултата и вредност	Број остварених резултата	Укупно поена	Нормиран број поена (више од 7 аутора)
Поглавља у монографијама и тематским зборницима (M10)	M14 = 4	1	4	4
Међународни научни часописи (M20)	M21 = 8	3	24	17.44
	M22 = 5	1	5	4.17
	M23 = 3	6	18	17.14
Зборници међународних скупова (M30)	M32= 1.5	1	1.5	1.5
	M34 = 0.5	11	5.5	4.92
Националне монографије и тематски зборници (M40)	M42 = 5	1	5	5
Радови у часописима националног значаја (M50)	M53 = 1	2	2	2
Зборници скупова националног значаја (M60)	M64 = 0.2	2	0.4	0.34
Обавезни (1) M10+M20+M31+M32+M33+ M41+M42+M90 (40)		13	57.5	49.25
Обавезни (2) M11+M12+M21+M22+M23 (30)		10	47	38.75
УКУПНО		28	65,4	56.51

**МИНИМАЛНИ КВАНТИТАТИВНИ ЗАХТЕВИ ЗА СТИЦАЊЕ ПОЈЕДИНАЧНИХ
НАУЧНИХ ЗВАЊА**

За природно-математичке и медицинске струке

Диференцијални услов-	потребно је да кандидат има најмање XX поена, који треба да припадају следећим категоријама:		
Од првог избора у претходно звање до избора у звање.....		НеопходноXX=	Остварено
Виши научни сарадник	Укупно	50	65.4 (56.51*)
Обавезни (1)	M10+M20+M31+M32+M33+M41+M42+M90	40	57.5 (49.25*)
Обавезни (2)	M11+M12+M21+M22+M23	30	47 (38.75*)

(*) - нормиран број поена

Нормирање радова је извршено на основу Прилога 1. Правилника, под 1.4 Нормирање броја коауторских радова, патената и техничких решења (шести став), дељењем броја бодова у радовима са више од седам коаутора, према формули: $K/(1+0,2(n-7))$, $n > 7$ (K - број "бодова рада према категорији", n – број аутора).

За реизбор у научно звање виши научни сарадник кандидат је обавезан да у периоду од пет година испуни најмање половину минималних квантитативних резултата потребних за избор у научно звање виши научни сарадник (Члан 35. став 2, Правилник о поступку, начину вредновања и квантитативном исказивању научноистраживачких резултата истраживача).

8. ЗАКЉУЧАК И ПРЕДЛОГ КОМИСИЈЕ

(за одлучивање упућен Наставно-научном већу, са назнаком из које шире и уже научне области, гране и дисциплине, кандидат стиче звање)

На основу увида у комплетну библиографски материјал др Саше Василијића, Комисија закључује се др Василијић успешно бави истраживањима из области базичне имунологије са посебним освртом на испитивању функционалних особина дендритских ћелија у циљу развоја оптималних протокола модулације њихове функције.

У периоду од избора у звање вишег научног сарадника, његов научноистраживачки рад се реализује на три пројекта Министарства одбране и два пројекта Министарства просвете науке и технолошког развоја Р. Србије и пројекту Националног Института за здравље САД. У свом научноистраживачком раду, др Василијић користи савремене истраживачке технике и самостално учествује у областима истраживања дендритских ћелија. Искуства стечена у његовом досадашњем раду квалификовала су га да руководи научноистраживачким пројектом који је финансиран од стране Министарства одбране Р. Србије. У свим фазама рада, др Василијић испољава кооперативност, иницијативу у тимском раду, као и способност преноса сопствених искустава и знања, чиме пружа допринос образовању младих истраживача. У досадашњем наставном раду, др Василијић показује изузетну стручност и вештину у излагању материје, као и спремност за пружање додатних информација у циљу мотивисања студената за научна истраживања. Учествовао је у изради више магистарских и докторских теза, а након избора у звање вишег научног сарадника био је ангажован као члан комисије у оцени и одбрани једне докторске дисертације, као и оцени једног магистарског рада и једне докторске дисертације. Др Саша Василијић је тренутно коментор у изради једног докторског рада, чија је научна заснованост одобрена, а реализација у току.

Преглед објављених радова после избора у звање научног сарадника показује да се научноистраживачки рад др Саше Василијић одвијао у неколико истраживачких праваца који указују и на његово учешће у реализацији научноистраживачке активности и у осталим научним центрима у земљи и иностранству.

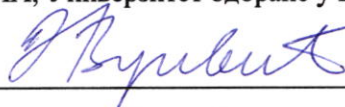
На основу прегледа целокупне публицистичке активности, анализе научноистраживачког рада, процене научних и стручних квалитета и увида у остале пратеће активности кандидата, сматрамо да виши научни сарадник др Саша Василијић испуњава све услове предвидјене Законом о научноистраживачком раду и Правилником о избору у научна звања за реизбор у звање виши научни сарадник и предлажемо Наставно-научном већу Медицинског факултета Војномедицинске академије да утврди испуњеност услова за овај реизбор.

У Београду, 22. 10. 2019.

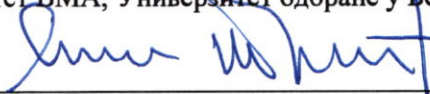
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