

ПРИМЉЕНО: 15. 11. 2017		
Органа	Бр.	Прилог
02	1546/1	

**НАУЧНОМ ВЕЋУ
ИНСТИТУТА ЗА МУЛТИДИСЦИПЛИНАРНА ИСТРАЖИВАЊА
БЕОГРАД**

Одлуком Научног већа Института за мултидисциплинарна истраживања, донетој на седници одржаној 1. новембра 2017. године именовали смо чланове Комисије за оцену научноистраживачког рада др **Жељке Вишњић Јефтић**, научног сарадника запосленог у Одсеку за природне ресурсе и животну средину Института за мултидисциплинарна истраживања, као и за утврђивање испуњености услова за њен избор у звање **виши научни сарадник**. На основу анализе рада кандидата подносимо Научном већу следећи

ИЗВЕШТАЈ

1. БИОГРАФСКИ ПОДАЦИ

Биографија

др **Жељка Вишњић Јефтић** рођена је 13.12.1978.год. (ЈМБГ 1312978825015) у Суботици, Република Србија. Биолошки факултет Универзитета у Београду уписала је 1997/1998. године на смеру Екологија и заштита животне средине. Звање Дипломирани биолог заштите животне средине, са средњом оценом 8,7 стиче 2002. године одбраном дипломског рада.

Докторске студије на Катедри за екологију и биоекологију животиња Биолошког факултета, Универзитета у Београду (смер: Екологија, Модул: Хидроекологија) уписује 2007/2008. године. Звање доктора биолошких наука стиче одбраном докторске тезе под називом „Еколошка и токсиколошка истраживања црноморске харинге (*Alosa immaculata*, Bennet 1835) у Дунаву у Србији“, 2012. године. Звање научни сарадник стиче у мају 2013. године, у области биологије.

Од 2005. године запослена је на Институту за мултидисциплинарна истраживања, Универзитета у Београду.

До сада је била учесник на пет националних и пет међународних пројеката. Аутор је и коаутор рада у часописима националног значаја и 23 рада у међународним часописима, као и 20 радова презентована на научним конгресима у земљи и иностранству.

2. БИБЛИОГРАФИЈА

2.1. Библиографија до избора у звање научни сарадник

2.1.1. Радови у врхунском међународном часопису (M21):

1. **Visnjic-Jeftic, Z.**, Jaric, I., Jovanovic, Lj., Skoric, S., Smederevac-Lalic, M., Nikcevic, M. and Lenhardt, M. (2010). Heavy metal and trace element accumulation in muscle, liver and gills of the Pontic shad (*Alosa immaculata* Bennet 1835) from the Danube River (Serbia). *Microchemical Journal* **95** (2), 341-344. **M21= 8; IF: 3.048; бр. хетероцитата: 37**
2. Jarić, I., **Višnjić-Jeftić, Ž.**, Cvijanović, G., Gačić, Z., Jovanović, Lj., Skorić, S. and Lenhardt, M. (2011). Determination of differential heavy metal and trace element accumulation in liver, gills, intestine and muscle of sterlet (*Acipenser ruthenus*) from the Danube River in Serbia by ICP-OES. *Microchemical Journal* **98**, 77-81. **M21= 8; IF: 3.048; бр. хетероцитата: 71**

2.1.2. Рад у истакнутом међународном часопису (M22):

3. Smederevac-Lalić, M., Jarić, I., **Višnjić-Jeftić, Ž.**, Skorić, S., Cvijanović, G., Gačić, Z. and Lenhardt, M. (2011). Management approaches and aquaculture of sturgeons in the Lower Danube region countries. *Journal of Applied Ichthyology* **27** (Suppl. 3), 94-100. **M22=5; IF: 1,121; бр. хетероцитата: 8**

3.1.2. Рад у међународном часопису (M23):

4. **Višnjić Jeftić, Ž.**, Lenhardt, M., Navodaru, I., Hegediš, A., Gačić, Z. and Nikčević, M. (2009). Reproducibility of age determination by scale and vertebra in Pontic shad (*Alosa pontica* Eichwald, 1838), from the Danube. *Archives of Biological Sciences* **61** (2), 337-342. **M23=3; IF: 0,238; бр. хетероцитата: 2**

5. Milošević, M., **Višnjić Jeftić, Ž.**, Damjanović, I., Nikčević, M., Andus, P. and Gačić, Z. (2009). Temporal analysis of electroretinographic responses in fishes with rod-dominated and mixed rod-cone retina. *General Physiology and Biophysics* **28**, 276-282. **M23=3; IF: 0,741; бр. хетероцитата: 0**

2.1.3. Саопштење са међународног скупа штампано у целини (M33):

6. Smederevac, M., **Višnjić Jeftić, Ž.**, Cvijanović, G., Lenhardt, M., Mićković, B. and Hegediš, A. (2006). Pregled gazdovanja ribolovnim resursima u Dunavu, Savi i Tisi na području Srbije u periodu od 1995. do 2005. IV Nacionalno znanstveno-stručno savjetovanje s međunarodnim sudjelovanjem. Zbornik radova "Gospodarenje ribljim resursima u ribolovnim područjima Drava-Dunav-Sava". Zbornik predavanja 14-23. Osijek, Jun 2006.
7. Skorić, S., **Višnjić-Jeftić, Ž.**, Hegediš, A., Gačić, Z., Đikanović, V., Poleksić, V., Rašković, B. and Lenhardt, M. (2008). Diet of cormorant (*Phalacrocorax carbo* L.) at Special Reserve of "Stari Begej-Carska bara" in northern Serbia. Symposium on Interactions Between Social, Economic and Ecological Objectives of Inland Commercial, Recreational Fisheries and Aquaculture. Antalya, Turkey, 21-24 May 2008.
8. Smederevac-Lalić, M., Regner, S., Hegediš, A., Kalauzi, A., **Višnjić-Jeftić, Ž.**, Pucar, M., Cvijanović, G. and Lenhardt, M. (2011). Commercial fisheries on Danube in Serbia. Conference Proceedings, 5th International Conference Aquaculture and Fishery, Belgrade, Serbia, 1-3 Jun, p. 189-194.
9. Skorić, S., Mićković, B., **Višnjić-Jeftić, Ž.**, Hegediš, A. and Regner, S. (2011). Further contribution related to identification of conditions for the use of river hopper barges as aquaculture facilities. Conference Proceedings, 5th International Conference Aquaculture and Fishery, Belgrade, Serbia, 1-3 Jun, p. 279-284.
10. Lenhardt, M., Gacic, Z., Vukovic-Gacic, B., Poleksic, V., **Višnjić-Jeftić, Ž.**, Kolarevic, S., Jaric, I. (2011). Ecological status of serbian rivers based on an

ichthyological assessment. *Studia universitatis vasile goldis arad, seria stiintele vietii*, 21 (4) , pp. 855-860. **бр. хетероцитата: 4**

2.1.4. Саопштење са међународног скупа штампано у изводу (M34):

11. **Visnjic Jeftic, Z.**, Vukov, T., Hegedis, A., Skoric, S., Gacic, Z. and Lenhardt, M. (2007). Geometrical morphometry characteristics of Pontic shad (*Alosa pontica*) in the lower Danube region. XII European Congress of Ichthyology. Cavtat, Croatia, 9-13 Septembar 2007.
12. Lenhardt, M., Hegediš., A., Gačić, Z., Jarić, I., Cvijanović, G., Smederevac-Lalić, M., **Višnjić-Jeftić, Ž.** and Mićković, B. (2008). Status of sterlet (*Acipenser ruthenus*) in Serbia. XXXII Scientific Conference on Fisheries and Aquaculture; Proceedings of the International Workshop on Sturgeon Conservation and Breeding, Szarvas, Hungary, 15-16 May 2008, 15-16.
13. Lenhardt, M., Djordjević, D., Sakan, S., Jarić, I., **Višnjić-Jeftić, Ž.**, Cvijanović, G., Smederevac-Lalić, M., Hegediš., A., Gačić, Z. and Mićković, B. (2008). Heavy metal analyses of sterlet (*Acipenser ruthenus* L.) from Danube and Tisza River. XXXII Scientific Conference on Fisheries and Aquaculture; Proceedings of the International Workshop on Sturgeon Conservation and Breeding, Szarvas, Hungary, 15-16 May 2008, 45-46.
14. Lenhardt, M., Poleksić, V., Cvijanović, G., Jarić, I., **Višnjić-Jeftić, Ž.**, Smederevac-Lalić, M., Hegediš., A., Gačić, Z., and Mićković, B. (2008). Histopathological analyses of sterlet (*Acipenser ruthenus* L.) vital organs as indicators of population condition. XXXII Scientific Conference on Fisheries and Aquaculture; Proceedings of the International Workshop on Sturgeon Conservation and Breeding, Szarvas, Hungary, 15-16 May 2008, 47-48.
15. Lenhardt, M., Gyore, K., Smederevac-Lalić, M., Hegediš., A., Mićković, B., Gačić, Z., Jarić, I., Cvijanović, G. and **Višnjić-Jeftić, Ž.** (2008). Activity plan for the conservation of sterlet (*Acipenser ruthenus* L.) in Serbia and Hungary. XXXII Scientific Conference on Fisheries and Aquaculture; Proceedings of the

- International Workshop on Sturgeon Conservation and Breeding, Szarvas, Hungary, 15-16 May 2008, 49-50.
16. Smederevac-Lalić, M., Jarić, I., **Višnjić-Jeftić, Ž.**, Skorić, S., Cvijanović, G., Gačić, Z. and Lenhardt, M. (2009). Status of sturgeon populations in Lower Danube Region and possibilities for their better investigation and protection. Conference proceedings, International Workshop on the Restoration of Fish Populations, Düsseldorf, Germany, 01-05 September 2009, p. 70.
17. Lenhardt, M., Navodaru, I., Vassilev, M., **Višnjić-Jeftić, Ž.**, Skorić, S. and **Smederevac-Lalić, M.** (2009). Status of Pontic shad (*Alosa immaculata* Bennett 1835) in Lower Danube Region. Proceedings of the International Workshop on the Restoration of Fish Populations, Düsseldorf, Germany, 1-5 September 2009, p. 36.
18. Lenhardt, M., Gačić, Z., Vuković-Gačić, B., Jarić, I., **Višnjić-Jeftić, Z.**, Cvijanović, G. and Nikčević, M. (2010). Status of rivers in Serbia based on ichthyological investigation. Abstracts book, International Conference „Natural and Artificial Ecosystems in the Somes-Cris-Mures-Tisa river Basins“, May 7-8 2010, Arad, Romania, p. 83.
19. Gacic, Z., Kolarevic, S., **Visnjic-Jeftic, Z.**, Jaric, I., Hegedis, A., Knezevic-Vukcevic, J., Vukovic-Gacic, B. and Lenhardt, M. (2011). The analysis of genotoxic effect of trace elements on erythrocytes of barbel (*Barbus barbus*) with standard alkalyne comet assay. Book of Abstracts, Annual Meeting of the European Environmental Mutagen Society, July 4-7 2011, Barcelona, Spain, p. 107.

2.1.5. Рад у истакнутом часопису националног значаја (M51):

20. Smederevac, M., **Višnjić, Ž.** and Hegediš, A. (2001). New data of distribution of the Gobies (*gen. Neogobius; fam. Gobiidae*) in Yugoslav course of the Danube River. *Ichthyologia* **3** (1), 77-80.

21. Lenhardt, M., Hegediš, A., Mićković, B., **Višnjić Jeftić, Ž.**, Smederevac, M., Jarić, I., Cvijanović, G. and Gačić, Z. (2006). First record of the North American paddlefish (*Polyodon spathula* Walbaum, 1792) in the Serbian part of the Danube River. *Archive of Biological Sciences* **58** (3), 27P-28P.
22. Regner, S., Mićković, B., Skorić, S., **Višnjić Jeftić, Ž.**, Hegediš, A. (2010). The Possibility of Using River Hopper Barges as Aquaculture Facilities. *Acta Agriculturae Serbica* 15 (30), 107-115.
23. Skorić, S.B., Mićković, B.M., Regner, S.B., **Višnjić Jeftić, Ž.V.** and Hegediš, A.E. (2010). The use of river hopper barges as facilities for aquaculture: the growth characteristics of carp (*Cyprinus carpio*) depending on stocking density. *Journal of Agricultural Sciences* 55 (2), 147-155.

2.1.6. Rad u naučnom časopisu (M53):

24. Lenhardt, M., Gačić, Z., Vuković-Gačić, B., Poleksić, V., **Višnjić-Jeftić, Ž.**, Kolarević, S. and Jarić, I. (2011). Ecological status of Serbian rivers based on an ichthyological assessment. *Studia Universitatis "Vasile Goldiș", Seria Științele Vieții* **21** (4), 855-860.

2.1.7. Монографска студија/поглавље у књизи M12 или рад у тематском зборнику међународног значаја (M14):

25. Mirjana Lenhardt , **Željka Višnjić-Jeftić** , Ion Navodaru , Ivan Jarić , Milen Vassilev , Zoran Gačić , and Miroslav Nikčević (2011). Fish Stock Management Cooperation in the Lower Danube Region: A Case Study of Sturgeons and Pontic Shad. In V. Lagutov (ed.), *Environmental Security in Watersheds: The Sea of Azov*, NATO Science for Peace and Security Series C: Environmental Security, DOI 10.1007/978-94-007-2460-0_7, © **Springer Science+Business Media B.V.** 2012.

2.1.8. Одбрањена докторска дисертација (M71) 6 бодова:

26. **Вишњић-Јефтић, Ж.** (2012). Еколошка и токсиколошка истраживања црноморске харинге (*Alosa immaculata*, Bennet 1835) у Дунаву у Србији. Биолошки факултет, Универзитет у Београду, pp 114.

2.2. Библиографија од избора у звање научни сарадник

2.2.1. Рад у међународном часопису изузетних вредности (M21a)

27. Kostić, J., Kolarević, S., Kračun-Kolarević, M., Aborgiba, M., Gačić, Z., Paunović, M., **Višnjić-Jeftić, Ž.**, Rašković, B., Poleksić, V., Lenhardt, M. And Vuković-Gačić, B. (2017). The impact multiple stressor on the biomarkers response in gill and liver of freshwater breams during different seasons. *Science of the Total Environment* 601, 1670-168. **M21a:5,56; IF:5,102; бр. хетероцитата:0**
28. Sunjog, K., Kolarević, S., Kračun-Kolarević, M., **Višnjić-Jeftić, Ž.**, Skorić, S., Gačić, Z., Lenhardt, M., Vasić, N. and Vuković-Gačić, B. (2016). Assesment of the status of three water bodies in Serbia based on the tissue metal and metalloid concentration (ICP-OES) and genotoxicity (comet assay). *Environmental pollution* 213, 600-607. **M21a:7,14; IF:5,099; бр. хетероцитата: 2**

2.2.2. Рад у врхунском међународном часопису (M21):

29. Subotić, S., Spasić, S., **Višnjić-Jeftić, Ž.**, Hegediš, A., Krpo-Ćetković, J., Mićković, B., Skorić, S. and Lenhard, M. (2013). Heavy metal and trace element bioaccumulation in target tissues of four edible fish species from the Danube River (Serbia). *Ecotoxicology and Environmental Safety*, 98, 196-202. **M21=6,67; IF=3.130; бр. хетероцитата: 29**
30. Jovičić, K., Nikolić, D., **Višnjić-Jeftić, Ž.**, Đikanović, V., Skorić, S., Stefanović, S., Lenhardt, M., Hegediš, A., Krpo-Ćetković, J. and Jarić, I. (2014). Mapping differential elemental accumulation in fish tissues: assessment of metal and trace element concentrations in wels catfish (*Silurus glanis*) from the Danube River by

- ICP-MS. *Environmental Science Pollution Research*, 22(5), 3820-3827. **M21: 5; IF:2,828; бр. хетероцитата:0**
31. Rašković, B., Poleksić, V., **Višnjić-Jeftić, Ž.**, Skorić, S., Gačić, Z., Djikanović, V., **Jarić, I.** and Lenhardt, M. (2015). Use of histopathology and elemental accumulation in different organs of two benthophagous fish species as indicators of river pollution. *Environmental Toxicology* 30(10), 1153-1161. **M21:6,66; IF: 3,197; бр. хетероцитата: 5**
32. Subotić, S., **Višnjić Jeftić, Ž.**, Spasić, S., Hegediš, A., Krpo-Ćetković, J. and Lenhardt, M. (2013). Distribution and accumulation of elements (As, Cu, Fe, Hg, Mn, and Zn) in tissues of fish species from different trophic levels in the Danube River at the confluence with the Sava River (Serbia). *Environmental Science Pollution Research*, 20(8), 5309-5317. **M21:8; IF:2,951; бр. хетероцитата: 14**
33. Sunjog, K., Gacic, Z., Kolarevic, S.,**Visnjic-Jeftic, Ž.**, Jarić, I., Knezevic-Vukcevic, J., Vukovic-Gacić, B. and,Lenhardt, M. (2012). Heavy Metal Accumulation and the Genotoxicity in Barbel (*Barbus barbus*) as Indicators of the Danube River Pollution. *Scientific World Journal*. **M21=6,67; IF: 1,730; бр. хетероцитата: 19**
34. Skoric, S., Visnjic-Jeftić, Ž., Jarić, I., Djikanović, V., Micković, B., Nikcević, M. and Lenhardt, M. (2012). Accumulation of 20 elements in great cormorant (*Phalacrocorax carbo*) and its main prey, common carp (*Cyprinus carpio*) and Prussian carp (*Carassius gibelio*). *Ecotoxicology and Environmental Safety*, 80, 244-251. **M21=8; IF: 2,294; бр. хетероцитата: 15**
- 2.2.3. Рад у истакнутом међународном часопису (M22)
35. Subotic, S., **Visnjic-Jeftic, Ž.**, Spasić, S., Hegediš, A., E Krpo-Ćetkovic, J., Lenhardt, M. (2015). Concentrations of 18 Elements in Muscle, Liver, Gills, and Gonads of Sichel (*Pelecus cultratus*), Ruffe (*Gymnocephalus cernua*), and European Perch (*Perca fluviatilis*) in the Danube River near Belgrade (Serbia). *Water Air and Soil Pollution*, 226 (9). **M22=5; IF: 1,685; бр. хетероцитата:0**
36. Djikanović, V., Skorić, S., Lenhardt, M., Smederevac-Lalić, M., **Visnjic-Jeftic, Ž.**, Spasić, S., Mićković, B. (2014). Review of sterlet (*Acipenser ruthenus* L.

- 1758) (Actinopterygii: Acipenseridae) feeding habits in the River Danube, 1694–852 river km. *Journal of Natural History*, 49(5-8), 411-417. **M23=5; IF: 0,954; бр. хетероцитата:0**
37. **Višnjić-Jeftić, Ž.**, Lenhardt, M., Vukov, T., Gačić, Z., Skorić, S., Smederevac-Lalić, M. and Nikčević, M. (2013). The geometric morphometrics and condition of Pontic shad, *Alosa immaculata* (Pisces: Clupeidae) migrants to the Danube River. *Journal of Natural History*, 47 (15-16), 1121-1128. **M22=5; IF:0,953; бр. хетероцитата:0**
38. Lenhardt, M., Jaric, I., **Višnjić-Jeftić, Ž.**, Skoric, S., Gacic, Z., Pucar, M. and Hegediš, A. (2012). Concentrations of 17 elements in muscle, gills, liver and gonads of five economically important fish species from the Danube River. *Knowledge and Management of Aquatic Ecosystems*, 407. **M22:5; IF: 1,520; бр. хетероцитата: 11**
- 2.2.4. *Ра̀д у међународном часопису (M23)*
39. Lenhardt, M., Navodaru, I., vassilev, M., Kalauzi, A., Regner, S., **Višnjić-Jeftić, Ž.**, Tošić, K. and Smederevac-Lalić, M. (2016). Model of the Pontic Shad *Alosa Immaculata* (Bennet, 1835) and Anchovy *Engraulis encrasicolus* (Linnaeus, 1758) Catch in the Danube River and Black Sea for Period 1920-2008. *Acta Zoologica Bulgarica*, 68(4), 557-561. **M23=2,5; IF: 0,437; бр. хетероцитата: 2**
40. Jovičić, K., Janković, S., **Višnjić-Jeftić, Ž.**, Skorić, S., Đikanović, V., Lenhardt, M., Hegediš, A., Krpo-Ćetković, J. and Jarić, I. (2016). Mapping Differential Elemental Element Accumulation in Fish Tissues: Importance of Fish Tissue Sampling Standardization. *Archives of Biological Science*, 68(2), 303-309. **M23=2,14; IF: 0,487; бр. хетероцитата: 10**
41. Smederevac-Lalic, M., Skoric S., **Visnjic-Jeftic Z.**, Djikanovic V. and Mickovic B. (2015). Growth and Weight-Length Relationship of Burbot *Lota lota* (L.) (*Lotidae*) in the Danube River at Backa Palanka (Serbia), *Acta Zoologica Bulgarica*, 67 (1), 97-103. **M23=3; IF: 0,532; бр. хетероцитата:0**
42. Jaćimović, M., Lenhardt, M., **Višnjić-Jeftić, Ž.**, Jarić, I., Gačić, Z., Hegediš, A. and Krpo-Ćetković, J. (2015). Elemental Concentration in Different Tissue of

- European Perch and Black Bullhead from Sava River. *Slovenian Veterinary Research*, 52 (2): 57-65. **M23=3; IF: 0,314; бр. хетероцитата: 2**
43. Jovičić, K., Lenhardt, M., **Višnjić-Jeftić, Ž.**, Đikanović, V., Skorić, S., Smederevac-Lalić, M., Jaćimović, M., Gačić, Z., Jarić, I. and Hegediš, A. (2014). Assessment of Fish Stocks and Elemental Pollution in the Danube, Sava and Kolubara Rivers on the territory of the City of Belgrade, Serbia. *Acta Zoologica Bulgarica*, Suppl. 7, 179-184. 1.88 **M23=1,875; IF: 0,532; бр. хетероцитата: 4**
44. Lenhardt, M., Jarić, I., Cvijanović, G., Kolarević, J., Gačić, Z., Smederevac-Lalić, M., **Višnjić-Jeftić, Ž.** (2012). Comparison of morphological characters between wild and cultured sterlet (*Acipenser ruthenus* L.). *Slov Vet Res* 2012; 49 (4): 177-184. **M23=3, IF: 0,314; бр. хетероцитата: 3**

2.2.5. Рад саопштен на скупу међународног значаја штампан у целини (M33)

1 бод:

45. Jovičić, K., **Višnjić – Jeftić, Ž.**, Skorić, S., Smederevac-Lalić, M., Nikolić, M.D., Đikanović, V., Jarić, I., Lenhardt, M., Hegediš, A. (2015). Assessment of the metal and trace element contents in tissues of four commercial fish species from the Danube River, Belgrade. In: Conference proceedings of 7th International Conference “WATER & FISH”, Faculty of Agriculture, Belgrade, Zemun, Serbia, Jun, 10-12. 2015, pp: 94-100.
46. Skorić, S., **Višnjić-Jeftić Ž.**, Smederevac-Lalić M., Jovičić, K., Hegediš, A (2015). Elements concentrations in tissue of chub (*Squalius cephalus*) from reservoirs of National Park “Tara”. In: Conference proceedings of 7th International Conference “WATER & FISH”, Faculty of Agriculture, Belgrade, Zemun, Serbia, Jun, 10-12. 2015, pp: 472-479.
47. Spasić S., Smederevac-Lalić M., Pucar M., Jarić I., Mićković B., Skorić S., **Višnjić-Jeftić Ž.** and Hegediš A. (2013). Importance of the quality of catch statistic data for the sustainable use of fish resources in Serbia. Proceedings of the

- 12th International Scientific Conference “Sinergija”, March 29, Bijeljina, Bosnia and Herzegovina, 697-702.
48. Spasić S., **Višnjić-Jeftić Ž.**, Smederevac-Lalić M., Pucar M., Jarić I., Mićković B., Skorić S. and Lenhardt M. (2013). Meat quality of commercial fish species in the Danube from the aspect of heavy metal presence. Proceedings of the 12th International Scientific Conference “Sinergija”, March 29, Bijeljina, Bosnia and Herzegovina, 703-707.
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51. **Višnjić-Jeftić Ž.**, Gačić Z, Skorić S., Smederevac-Lalić M., Djikanović V. and Mićković B. (2014). Population Structure of Burbot (*Lota Lota* L.) in the Danube. Water Research and Management, Vol. 4, No. 2 (2014) 43-47.

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3. АНАЛИЗА РАДОВА

Преглед објављених радова показује да је научно-истраживачки рад др **Жељка Вишњић-Јефтић** обухватио истраживања из неколико области. Према ужим истраживачким областима којима припадају публикације др **Жељке Вишњић-Јефтић** могу се сврстати у следеће категорије:

1. Екотоксикологија риба:

Значајан пораст емисије токсичних материја од стране човека резултирао је брзим уграђивањем у ланце исхране. Тешки метали и елементи у траговима улазе у ланце исхране преко природних, али и преко антропогених извора. Тешки метали и елементи су стално присутни и небioresградиви са дугим биолошким полуживотом. Тешки метали и елементи могу изазвати тератогене, мутагене и карциногене ефекте у живим организмима, укључујући и рибе. Тешки метали попут гвожђа, бакра, хрома и цинка су есенцијални за метаболичке активности, али постају токсични у вишим концентрацијама. Постоје многа истраживања са подацима о концентracији тешких метала и елемената у мишићима, концентracије у другим органима риба се слабије раде и не постоји јаснија слика о дистрибуцији у другим ткивима и органима.

Рибе су изложене загађивачима у води и седименту, па се сматра да могу представљати добре индикатора стања акватичних екосистема. Стога су спроведена бројна истраживања нивоа акумулације тешких метала у различитим органима и ткивима риба, као и примена ових параметара као индикатора загађења животне

средине. Утврђени су комплексни принципи дистрибуције елемената у организму, при чему јетра представља центар акумулације већине тешких метала, док су најниже вредности забележене у мишићном ткиву. Рибе, као водени организми могу насељавати различите трофичке нивое па самим тим је акумулација елемената у траговима и тешких метала различита у зависности од њихове исхране. Неопходно је детаљно мапирање концентрације тешких метала у различитим ткивима код риба различитих трофичких нивоа (29, 30, 32, 34, 35, 38, 40, 42, 43, 45, 46, 48). Осим типизације концентрације метала по ткивима постоји и неопходност и поређења концентрације метала у ткивима риба и максимално дозвољених концентрација (МДК) прописаних националним и европским легислативама које се прописују ради безбедности људске исхране. Анализом концентрације метала и елемената код црноморске харинге (*Alosa immaculata*) забележене су високе концентрације арсена и кадмијума у месу ове миграторне всте која улази у српски део Дунава из Црног мора ради мреста. Црноморска харинга је у Србији заштићена законском регулативом јер је њен пут мресне миграције драстично скраћен изградњом ХЕ “Ђердап II”, овим проблемом кандидат се бавио посебно детаљно у својој докторској дисертацији.

Осим на нивоу ткива тешки метали и елементи дају одговора и на нивоу генома па је свакако сврсисходно радити истраживања и њихове генотоксичности. Интензивни процеси производње ослобађају велики број агенаса као и метала и елемената у траговима највећим делом у водене токове, па је за очекивати и примену тестова њиховог генотоксичног потенцијала. Рибе имају способност биоаккумуляције генотоксичних агенаса у ткивима те се могу користити као биоиндикатори у генотоксичним студијама. Такође, рибе се сматрају једним од најзначајнијих индикатора за процену нивоа метала у ланцима исхране и са потенцијалном акумулацијом високих концентрација метала. Процена генотоксичности површинских вода вршена је на основу детекције оштећења DNK молекула алкалним комет тестом у крви, јетри и шкргама. Параметри за рангирање нивоа оштећења DNK молекула били су: дужина репа комете, интензитет репа комете и „Olive tail moment“. Паралелно са комет тестом рађене су анализе и

концентрације метала методом индуктивно спрегнуте плазме - оптичко емисионом спектрометријом (ICP-OES) (радови 27,28 и 33).

Тешки метали могу довести и до промена, као што је напоменуто на нивоу ћелије, самим тим истраживање хистопатолошких промена на ткивима (мишић, јетра, шкрга) могу бити од велике користи у утврђивању њиховог штетног утицаја на нивоу органа. Хистопатолошке методе примењују се за испитивање ефеката органских, неорганских где спадају и тешки метали и елементи у траговима, на одређеним ткивима риба. Анализа природних популација риба само хистопатолошким методама није довољна за разумевање извора и трајања загађења, међутим, добар приступ је коришћење статистичких метода при обради хистопатолошких промена и концентрације елемената метала које могу бити добар показатељ утицаја ових загађивача на патолошке промене на ткивима риба (рад 31).

2. Екологија риба (утврђивање старости, дужинско тежинских особина, исхране, морфометријских карактеристика):

Процена старости риба обезбеђује важне демографске параметре уз које се процењује рибља популација. Тачни и прецизни подаци о старости су кључни за схватање биологије и екологије риба. Поред процене старости важно је одредити и дужинско-тежинске односе. Рибе током развића пролазе низ фаза у којима се мењају дужинско-тежински односи, овај однос најбоље презентује коефицијент алометрије односно фактор регресије b . Вредности фактора алометрије варирају од старости, пола, врсте, исхране и полне зрелости и могу варирати од 2,5 до 3,5. Када је $b=3$, тада риба има идеалан алометријски раст (не долази до промена у пропорцијама при расту јединке). Вредности мање од три указују на негативан алометријски раст тј. пораст дужине јединке је већи од пораста тежине у јединици времена, док позитиван алометријски раст указује на обрнути тренд. Између осталог, фактор алометрије може послужити за диференцијацију група или субпопулација у оквиру једне популације. (радови 41, 49, 51).

Испитивање геометријске - морфометрије код риба је скуп метода које омогућују статистичку анализу облика и величине као и директно графичко представљање облика тела. Ова метода се користи за разумевање промене облика

тела као и промена у алометрији током развића. У анализи се полази од распореда специфичних тачака на морфолошкој целини. Метода омогућава одвајање величине и облика и њихову независну анализу. Геометријска морфометрија има веома високу статистичку осетљивост тако да се њеном применом могу детектовати мале промене у облику, што није могуће детектовати традиционалном морфометријом (37, 44).

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У прва три изабрана рада кандидат Жељка Вишњић Јефтић је руководила израдом докторске тезе др Срђана Суботића. на којој је учествовала у својству ментора на Биолошком факултету. У четвртм изабраном раду је први аутор који је проистекао из докторске тезе кандидата која се бави угроженом, миграторном и заштићеном врстом црноморском харингом (*Alosa immaculata*). У петом раду кандидат учествује у реализацији доктората Катарине Јовичић, докторанда на Биолошком факултету, Универзитета у Београду.

4. КВАЛИТЕТ НАУЧНИХ РАДОВА

Из наведеног списка се види да је др Жељка Вишњић Јефтић аутор/коаутор 52 научне публикације: 23 публикације у међународним часописима и шест у домаћим научним часописима, 22 саопштења на међународним скуповима (од чега је 11 публиковано у целини, а 11 у конгресним зборницима у форми резимеа) и једна публикована монографска студија/поглавље у књизи М12 квалитета М13..

4.1 Цитираност

Публикације др Жељке Вишњић-Јефтић цитиране су 286 пута (без аутоцитата, извор SCOPUS база) у научним радовима.

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DOCUMENT TYPE: Article

SOURCE: Scopus

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DOI: 10.2298/GENSR1503051C

DOCUMENT TYPE: Article

SOURCE: Scopus

Рад 43. Mirjana Lenhardt, Ivan Jarić, Gorčin Cvijanović, Jelena Kolarević, Zoran Gačić, Marija Smederevac-Lalić, **Željka Višnjić-Jeftić** (2012). Comparison of morphological characters between wild and cultured sterlet (*Acipenser ruthenus* L.). *Slov Vet Res* 2012; 49 (4): 177-184.

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<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020498257&partnerID=40&md5=24ff9d2f5320200c69c866cf7d4ff69>

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DOI: 10.1007/s10750-015-2428-5

DOCUMENT TYPE: Article

SOURCE: Scopus

-Cvijanović, G., Adnadević, T., Lenhardt, M., Marić, S. New data on sterlet (*Acipenser ruthenus* L.) genetic diversity in the middle and lower Danube sections, based on mitochondrial DNA analyses (2015) *Genetika*, 47 (3), pp. 1051-1062.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957080016&doi=10.2298%2fGENSR1503051C&partnerID=40&md5=058c526f5e7a06d8064b8bc954233025>

DOI: 10.2298/GENSR1503051C

DOCUMENT TYPE: Article

SOURCE: Scopus

5. КВАЛИТАТИВНИ ПОКАЗАТЕЉИ УСПЕХА У НАУЧНОМ РАДУ

5.1. Међународна сарадња

Др **Жељка Вишњић-Јефтић** је током своје истраживачке каријере допринела успостављању сарадње матичне институције са истраживачима из Словачке радећи на пројекту „Хармонизација метода за праћење квалитативног и квантитативног састава рибљих популација у великим рекама“. Такође, учешћем на пројекту „BioFresh Project - Compilation of geo-referenced distribution data of Serbian freshwater fishes“, кандидат је допринео сарадњи са стручњацима из Немачке у развоју методе геореференцирања слатководних врста риба у Србији.

Као учесник на ИПА пројекту под називом „Sustainable use of sterlet and development of sterlet aquaculture in Serbia and Hungary“ допринела је изучавању

развоја аквакултуре у Србији на основу сарадње са Мађарским стручњацима о чему сведоче публикације из те области.

Заједничке публикације у међународним научним часописима и на међународним научним скуповима говоре о значајном доприносу Жељке Вишњић Јефтић на успостављању заједничких истраживања научника из Румуније, Бугарске и Србије на пољу дунавских популација црноморске харинге (*Alosa immaculata*).

5.2. Ангажованост у формирању научних катрова:

Др Жељка Вишњић Јефтић је учествовала у реализацији једне одбрањене докторске дисертације у својству ментора 2015. године кандидата Срђана Суботића под називом „Биоакумулација и биомагнификација токсичних матала и елемената у траговима код слатководних риба различитог трофичког нивоа из Дунава код Београда“, на Биолошком факултету, Универзитета у Београду (доказ дат у прилогу).

Др Жељка Вишњић Јефтић учествовала је у реализацији два одбрањена мастер рада као члан комисије . Први мастер рад одбрањен је 2012. године кандидата Николе Расулић под називом „ Одређивање дужинско-тежинског односа код црноморске харинге, *Alosa immaculata* Bennett, 1835, из Дунава код Прахова“. Други мастер рад одбрањен је 2017. године кандидата Милице Гавриловић под називом „Растење и дужинско-тежински односи код шљивара (*Vimba vimba*) у Дунаву код Земуна (1170-1173 ркм)“. Оба мастер рада одбрањена су на Биолошком факултету, Универзитета у Београду.

5.3. Учешће у реализацији научних пројеката и ангажовање у руковођењу научним радом:

Кандидат је учествовао на више националних научноистраживачких пројеката :

- Истраживање диверзитета, заштите и одрживог коришћења фауне риба, као битних компоненти за развој стратегије интегралног управљања воденим

- ресурсима Србије (ОИ 143045), Министарство за науку и технолошки развој, Министарство просвете и науке, 2006-2010.
- Рибе као биоиндикатори стања квалитета отворених вода Србије (ОИ 173045), Министарство просвете, науке и технолошког развоја, 2010-2016.
 - Мерење и моделирање физичких, хемијских, биолошких и морфодинамичких параметара река и водних акумулација (ТР 37009), Министарство за науку и технолошки развој, Министарство просвете и науке, 2011-2014.
 - Риболовни ресурси у Дунаву и Сави на територији Београда - страње, валоризација, развој мониторинг програма, Градска управа града Београда - Секретаријат за заштиту животне средине, 2012 – 2013.

Кандидат је учествовао на више међународних научноистраживачких пројеката :

- Compilation of geo-referenced distribution data of Serbian freshwater fishes - BioFresh Project , EU, 2012-2013.
- Хармонизација метода за праћење квалитативног и квантитативног састава рибљих популација у великим рекама (680-00-140/2012-09/02), Министарство просвете, науке и технолошког развоја, Словачка Академија Наука, 2012-2013.
- Swimming of fish and implications for migration and aquaculture (FITFISH), COST Action (European Cooperation in Science and Technology) FA1304, EY 2014-2018.
- Network Lake Observations in Europe (NETLAKE) (COST Action ES1201). EU, 2012-2016.
- Management of freshwater fisheries on bordering rivers - pilot study with a holistic regional approach" Министарство иностраних послова, Норвешка, 2003-2005.
- Sustainable use of sterlet and development of sterlet aquaculture in Serbia and Hungary, ИПА пројекат., Европска Агенција за Реконструкцију, 2007-2008.

У оквиру пројекта ОИ 173045 у области природно-математичких наука (биологија), којим руководи Миријана Ленхардт, кандидат Жељка Вишњић Јефтић

руководи пројектним задацима везаних за анализу концентрације елемената и тешких метала као и на развоју метода за анализу органских једињења у ткивима слатководних риба отворених вода Србије.

5.4 Монографска студија/ поглавље у књизи M12 (M13):

- Mirjana Lenhardt , Željka Višnjić-Jeftić , Ion Navodaru , Ivan Jarić , Milen Vassilev , Zoran Gačić , and Miroslav Nikčević (2011). Fish Stock Management Cooperation in the Lower Danube Region: A Case Study of Sturgeons and Pontic Shad. In V. Lagutov (ed.), Environmental Security in Watersheds: The Sea of Azov, NATO Science for Peace and Security Series C: Environmental Security, DOI 10.1007/978-94-007-2460-0_7, © Springer Science+Business Media B.V. 2012.

5.5. Чланства у научним друштвима:

Кандидат Жељка Вишњић Јефтић је члан Српског биолошког друштва као и члан научног већа у последња два сазива у институтцији у којој је запослена.

6. КВАНТИТАИВНА ОЦЕНА НАУЧНО-ИСТРАЖИВАЧКИХ РЕЗУЛТАТА

Квантитативна оцена резултата научно-истраживачког рада др Жељка Вишњић Јефтић дата је у табелама 1-3.

Табела 1. Укупне вредности коефицијента М др Жељке Вишњић Јефтић након избора у звања научни сарадник према категоријама прописаним у Правилнику за област природно-математичких и медицинских наука.

Категорија радова	Потребан минимум за звање виши научни сарадник	Остварено
M10+M20+M31+M32+M33+M41+M42+M90	40	95,215
M11+M12+M21+M22+M23	30	89,215
УКУПНО	50	95,215

Табела 2. Научни резултати рада након избора у звање научни сарадник др Жељке Вишњић Јефтић:

Ознака групе	Укупан број радова	Вредност индикатора	Укупна вредност
M21a	2	10	12,7
M21	6	8	41
M22	4	5	20
M23	6	3	15,515
M33	6	1	6
M34	2	0,5	1
M53	1	1	1
Укупно	27	28,5	97,215

Табела 3. Укупни научни резултати у досадашњој каријери др Жељке Вишњић Јефтић:

До избора у звање научни сарадник	48,50
После избора у звање научни сарадник	95,215
Укупно у читавој каријери	143,715

Табела 4. Параметри квалитета часописа у укупној каријери (укупни импакт фактор радова публикованих у часописима).

До избора у звање научни сарадник	8,20
После избора у звање научни сарадник	33,88
Укупно у каријери	42,08

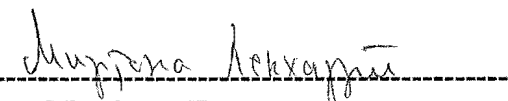
6. ЗАКЉУЧАК И ПРЕДЛОГ

Увидом у досадашњи рад и свеобухватном анализом научног доприноса рада др **Жељке Вишњић Јефтић**, научног сарадника Института за мултидисциплинарана истраживања, према критеријумима који су прописани Законом о научноистраживачкој делатности и Правилником о поступку и начину вредновања и квантитативном исказивању научно-истраживачких резултата истраживача, потврђена је оправданост њеног избора у звање виши научни сарадник.

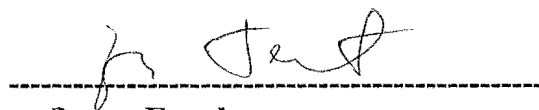
Комисија сматра да, на основу критеријума које је прописало Министарство за просвету, науку и технолошки развој Републике Србије др **Жељка Вишњић Јефтић** испуњава све услове за избор у звање **виши научни сарадник**, те предлаже Научном већу Института за мултидисциплинарана истраживања да прихвати овај извештај и предложи њен избор у то звање.

Београд,

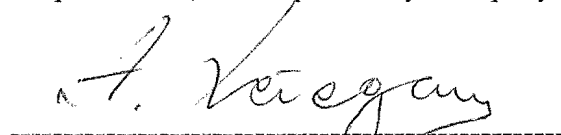
КОМИСИЈА:



др **Мирјана Ленхардт**, научни саветник,
Институт за мултидисциплинарана
истраживања, Институт за биолошка
истраживања "Синиша Станковић",
Универзитета у Београду



др **Зоран Гачић**, научни саветник
Институт за мултидисциплинарана
истраживања, Универзитета у Београду



др **Александар Хегедиш**, научни
саветник, Институт за
мултидисциплинарана истраживања,
Универзитета у Београду

Др Жељка Вишњић Јефтић - Укупне вредности коефицијената М од избора у звање научни сарадник према категоријама прописаним у Правилнику за област природно-математичких и медицинских наука:

Минимални квантитативни захтеви за стицање појединачних научних звања

Диференцијални услов – од првог избора у претходно звање до избора у звање...	Потребно је да кандидат има најмање XX поена, који треба да припадају следећим категоријама		
		Неопходно XX =	Остварено
Научни сарадник	Укупно	16	
Обавезни (1)	M10+M20+M31+M32+M33+M41+M42	10	
Обавезни (2)	M11+M12+M21+M22+M23	6	
Виши научни сарадник	Укупно	50	95,215
Обавезни (1)	M10+M20+M31+M32+M33+M41+M42+M90	40	95,215
Обавезни (2)	M11+M12+M21+M22+M23	30	88,905
Научни саветник	Укупно	70	
Обавезни (1)	M10+M20+M31+M32+M33+M41+M42+M90	50	
Обавезни (2)	M11+M12+M21+M22+M23	35	