

Na osnovu čl. 30. stav 3. Zakona o visokom obrazovanju, čl. 40. Statuta TMF i čl. 39. Pravilnika o doktorskim studijama TMF, na sednici Nastavno-naučnog veća Tehnološko-metalurškog fakulteta od 09.04.2015. godine, doneta je

O D L U K A

o prihvatanju Referata o oceni doktorske disertacije

Prihvata se Referat Komisije u sastavu: dr Branko Bugarski, redovni profesor Univerziteta u Beogradu, Tehnološko-metalurški fakultet, dr Vesna Ilić, naučni savetnik Univerziteta u Beogradu, Institut za medicinska istraživanja, dr Zorica Knežević-Jugović, redovni profesor Univerziteta u Beogradu, Tehnološko-metalurški fakultet, dr Viktor Nedović, redovni profesor Univerziteta u Beogradu, Poljoprivredni fakultet, dr Verica Đorđević, naučni saradnik Univerziteta u Beogradu, Tehnološko-metalurški fakultet, o pregledu i oceni urađene doktorske disertacije pod nazivom: „PROCESNO OČUVANE MEMBRANE ERITROCITA DOBIJENE IZ KLANIČNE KRVI KAO SISTEMI ZA PRODUŽENO OSLOBAĐANJE AKTIVNIH SUPSTANCI“ koju je podnela **IVANA KOSTIĆ, dipl. farm.**, i upućuje se na saglasnost Veću naučnih oblasti tehničkih nauka Univerziteta u Beogradu.

Veće naučnih oblasti tehničkih nauka Univerziteta u Beogradu dalo je saglasnost na predlog teme doktorske disertacije Ivane Kostić pod nazivom „PROCESNO OČUVANE MEMBRANE ERITROCITA DOBIJENE IZ KLANIČNE KRVI KAO SISTEMI ZA PRODUŽENO OSLOBAĐANJE AKTIVNIH SUPSTANCI“ Odlukom 02 broj: 61206-4605/2-14 od 20.10.2014. godine.

Verifikacija naučnih doprinosa:

Kategorija M21:

1. **Kostić, I.T.**, Ilić, V.Lj., Đorđević, V.B. Bukara, K.M., Mojsilović, S.B., Nedović, V.A., Bugarski, D.S., Veljović, Đ.N., Mišić, D.M., Bugarski, B.M.: Erythrocyte membranes from slaughterhouse blood as potential drug vehicles: Isolation by gradual hypotonic hemolysis and biochemical and morphological characterization, - *Colloids and Surfaces B: Biointerfaces*, vol. 122, pp. 250-259, 2014 (**IF = 4.287**; Наука о материјалима, Биоматеријали, 7/32, 2013) (ISSN 0927-7765).

Kategorija M23:

1. **Kostić, I.T.**, Ilić, V.Lj., Bukara, K.M., Mojsilović, S.B., Đurić, Z.Ž., Drašković, P., Bugarski, B.M.: Flow cytometric determination of osmotic behaviour of animal erythrocytes toward their engineering for drug delivery, - *Hemijska Industrija*, vol. 69, no. 1, pp. 67-76, 2014 (**IF = 0.562**, Хемијско инжењерство, 92/133, 2013) (ISSN 0367-598X).

Kategorija M33:

1. **Kostić, I.T.**, Bukara, K.S., Pravilović, R., Ilić, V.Lj., Mojsilović, S.B., Marković, S.D., Bugarski, B.M.: "Morphological characterization of erythrocyte membranes derived from bovine and porcine slaughterhouse blood as dexamethasone sodium phosphate carriers", -*Proceedings of the IV International congress "Engineering, Environment and Materials in Processing Industry"* Jahorina, Bosnia and Herzegovina, 4-6 March 2015, pp. 312-317. ISBN 978-99955-81-17-6
2. **Kostić, I.T.**, Ilić, V.Lj., Mojsilović, S.B., Pravilović, R.N., Bugarski, B.M.: "Morfološka i biohemijska karakterizacija membrana eritrocita dobijenih iz otpadne klanične krvi", -

Proceeding of the III International Congress "Engineering, Environment and Materials in Processing Industry", Jahorina, Republic of Srpska, Bosnia and Hercegovina, 4-6 March 2013, pp. 153-166. ISBN 978-99955-81-11-4

Категорија M34:

1. **Kostić, I.**, Bukara, K., Ilić, V., Šekularac, G., Mišić, D., Nedović, V., Bugarski, B.: "From meat industry waste to potential active substances carriers: Erythrocyte ghosts from slaughterhouse blood as dexamethasone sodium phosphate carriers", -*Book of abstracts of the II International Congress of Food Technology, Quality and Safety (Food Tech Congress)*, Novi Sad, Serbia, 28-30 October 2014, pp.176-178. ISBN 978-86-7994-041-4
2. **Kostić, I.T.**, Bukara, K.M., Ilić, V.L., Veljović, Đ.N., Bugarski, B.M.: "Morphology and protein composition of porcine erythrocyte ghosts altered by different buffers", -*Proceedings of the 18th International Microscopy Congress*, Prague, Czech Republic 7- 12 September, 2014, ID-1-P-1469. ISBN 978-80-260-6720-7
3. **Kostić, I.T.**, Bukara, K.M., Ilić, V.L., Ralević, U.M., Bugarski, B.M.: "Preparation of erythrocyte ghosts from slaughterhouse blood for AFM observation", -*Proceedings of the 18th International Microscopy Congress*, Prague, Czech Republic 7- 12 September, 2014, ID-1-P-1470. ISBN 978-80-260-6720-7
4. **Kostić, I.**, Đorđević, V., Ilić, V., Bukara, K., Nedović, V., Bugarski, B.: "Novel carriers of active substances derived from porcine slaughterhouse blood", - *Book of Extended Abstracts of the COST action FA 1001 WG1+WG2+WG3 meeting "The nano, micro, macro confluence in food structure for health, wellness and pleasure"*, Bucharest, Romania, 27-28 February 2014, pp. 36-37. ISBN 9789738937802
5. **Kostić, I.**, Bukara, K., Ilić, V., Mojsilović, S., Đorđević, V., Isailović, B., Veljović, Đ., Bugarski, B.: "Scanning electron microscopy observation of erythrocyte ghosts isolated from slaughterhouse blood by gradual hemolysis", - *Proceedings of the Microscopy Conference*, Regensburg, Germany, 25-30 August, 2013, pp. 520-521. [urn:nbn:de:bvb:355-epub-287343](http://nbn-resolving.org/urn:nbn:de:bvb:355-epub-287343)

Категорија M53:

1. **Kostić, I.T.**, Ilić, V.Lj., Bugarski, B.M.: Eritrociti kao savremeni nosači lekovitih supstanci: trenutni status, izazovi i izgledi za primenu u medicini, - *MD-Medical Data*, vol. 4, no. 3, pp. 287-292, 2012 (ISSN 1821-1585)

Категорија M64:

1. Bukara, K.S., **Kostić, I.T.**, Ilić, V.Lj., Stančić, A., Bugarski, B.M.: "Usage of erythrocyte membranes from slaughterhouse blood as controlled drug delivery systems-example of dexamethasone", - *Book of abstracts of Belgrade International Molecular Life Science Conference for Students*, Belgrade, Serbia, 15-18 January, 2015, PP20.

Други радови који су проистекли из доктората:

Категорија M23:

1. Pravilović, R.N., Mojsilović, S.B., **Kostić, I.T.**, Ilić, V.Lj., Bugarski, D.S., Manojlović, V.B., Bugarski, B.M.: Optimizacija procesa izolovanja hemoglobina iz govedih eritrocita kontrolisanom hemolizom, - *Hemijska Industrija*, vol. 66, no. 4, pp. 519–529, 2012 (**IF = 0.463**; Хемијско инжењерство, 104/133, 2012) (ISSN 0367-598X).

Kategorija M33:

1. Bukara, K.S., **Kostić, I.T.**, Pravilović, R., Kalužević, A., Ilić, V.Lj., Marković, S.D., Bugarski, B.M.: "Termoprotective effect of maltose on hemoglobin isolated from porcine slaughterhouseblood and outdated human red blood cells", -*Proceedings of the IV International congress "Engineering, Environment and Materials in Processing Industry"* Jahorina, Republic of Srpska, Bosnia and Herzegovina, 4-6 March 2015, pp. 336-339. ISBN 978-99955-81-17-6
2. **Kostić, I.**, Bukara, K., Ilić, V., Bugarski, B.: "Effect of bovine blood storage in slaughterhouses on parameters relevant to hemoglobin isolation", - *Proceedings of the International 57th Meat Industry Conference "Meat and meat products–perspectives of sustainable production"*, Belgrade, Serbia, 10-12 June 2013, pp. 201-205. ISBN 978-86 -7994 7994 -041 -4
3. **Kostić, I.**, Stojanović, R., Ilić, V., Zarić, M., Đorđević, V., Bugarski, B.: "Development of a heme iron feed supplement for prevention and therapy of anemia in domestic animals", - *Proceedings of the 6th Central European Congress on Food*, Novi Sad, Serbia, 23-26 May 2012, pp. 1639-1644. ISBN 978-86-7994-027-8

Kategorija M34:

1. Bukara, K.S., **Kostić, I.T.**, Ilić, V.Lj., Marković, S.B., Lazarević, N.Ž., Bugarski, B.M.: "Solid state characterization of maltose-embedded hemoglobin from porcine slaughterhouse blood", - *Book of abstracts of the Thirteenth Young Researchers Conference – Materials Science and Engineering*, Belgrade, Serbia December 10-12, 2014, I/4 pp.2. ISBN 978-86-80321-30-1
2. Bugarski, B., Nedović, V., Pravilović, R., **Kostić, I.**, Bukara, K., Ilić, V.: "Optimization of the process of gradual hemolysis for isolation of haemoglobin from wasted blood obtained from slaughterhouse", - *Book of abstracts of COST Conference on Food Waste in the European Food Supply Chain: Chalenges and Opportunities*, Athens, Greece, 12-13 May 2014, pp. 16-17.

Kategorija M64:

1. Bukara, K.S., **Kostić, I.T.**, Ilić, V.Lj., Stančić, A., Bugarski, B.M.: "Solid state characterization of maltose-embedded hemoglobin from porcine slaughterhouse blood",- *Book of abstracts of Belgrade International Molecular Life Science Conference for Students*, Belgrade, Serbia, 15-18 January 2015, OP6

Izveštaj o oceni doktorske disertacije dostavlja se na uvid javnosti, a po isteku roka od 30 dana, na saglasnost Veću naučnih oblasti tehničkih nauka Univerziteta u Beogradu.

Odluku dostaviti: Veću naučnih oblasti Univerziteta, doktorandu, Službi za nastavno-studentske poslove, Biblioteci i Arhivi fakulteta.

D E K A N

Prof. dr Đorđe Janačkov