Spisak radova koji kvalifikuju mentore za vođenje doktorske disertacije:

 **prof. dr Nebojša Milošević**

Чланци у часописима:

1. Ristanović D., Nedeljkov V., Stefanović DB., Milošević NT., Grgurević M., Štulić V. Fractal and nonfractal analysis of cell images: comparison and application to neuronal dendritic arborization. *Biol Cybern.* 2002; 87: 278-288.

2. Milošević NT., Ristanović D. Fractal and nonfractal properties of triadic Koch curve. *Chaos, Solitons & Fractals* 2007; 34: 1050-1059.

3. Ristanović D., Milošević NT., Jelinek HF., Stefanović IB. Mathematical modelling of neuronal dendritic branching patterns in two dimensions: application to retinal ganglion cells in the cat and rat. *Biol Cybern.* 2009; 100: 97-108.

4. Milošević NT., Ristanović D., Jelinek HF., Rajković K. Quantitative analysis of dendritic morphology of the alpha and delta retinal ganglion cells in the rat: a cell classification study. *J Theor Biol.* 2009; 259: 142-150.

5. Ristanović D., Milošević NT., Stefanović IB., Marić D., Popov I. Cell image area as a tool for neuronal classification. *J Neurosci Methods* 2009; 182: 272-278.

6. Ristanović D., Krstonošić B., Milošević NT., Gudović R. Mathematical modelling of transformations of asymmetrically distributed biological data: An application to a quantitative classification of spiny neurons of the human putamen, *J Theor Biol.* 2012; 302: 81-88.

7. Pantić I, Harhaji-Trajković Lj., Pantović A., Milošević NT., Trajković V. (2012), Changes in fractal dimension and lacunarity as early markers of UV-induced apoptosis, *J Theor Biol.* 2012; 303: 87-92.

8. Ristanović D., Milošević NT. Fractal analysis: methodologies for biomedical researches, *Theor Biol Forum* 2012; 105: 99-118.

9. Pantic I., Paunovic J., Basta-Jovanovic G., Perovic M., Pantic S., Milosevic NT. Age-related reduction of structural complexity in spleen hematopoietic tissue architecture in mice, *Exp Geront.* 2013; 48: 926-932.

10. Rajković K., Bačić G., Ristanović D., Milošević NT. Mathematical model of neuronal morphology: prenatal development of the human dentate nucleus, *BioMed Res Int.* 2014; DOI 10.1155/2014/812351.

11. Grbatinić I., Marić DL., Milošević NT. Neurons from the adult human dentate nucleus: Neural networks in the neuronal classification. *J. Theor. Biol.* 2015; 370: 11-20.

12. Rajković K., Marić DL., Milošević NT., Jeremić S., Arsić-Arsenijević V., Rajković N. Mathematical modeling of the neuron morphology using two dimensional images. *J Theor Biol.* 2016; 390: 80-85.

Чланци у зборницима међународних скупова:

1. Milošević NT., Ristanović D., Jelinek HF., Gudović R., Marić D. The morphology and cell classification in the human dentate nucleus: a fractal analysis study. Proceedings CSCS-17, Vol. 3: Interdisciplinary approaches in fractal analysis IAFA 2009, R. Dobrescu (ed.), 54-7, Editura Politehnica Press, Bucharest, Romania, 2009.

2. Milošević NT., Krstonošić B., Gudović R., D. Ristanović D. Fractal analysis of neuronal dendritic branching patterns in the human neostriatum: a revised classification scheme. Proceedings CSCS-18, Vol. 2: Interdisciplinary approaches in fractal analysis IAFA 20011, R. Dobrescu (ed.), 871-876, Editura Politehnica Press, Bucharest, Romania, 2011.

3. Milošević NT., Rajković N, Jelinek HF., Ristanović D. Richardson’s method of segment counting versus box-counting, Proceedings of 19th International Conference on Control Systems and Computer Science, Vol. 2: Interdisciplinary approaches in fractal analysis IAFA 2013, I. Dumitrache, A. Magda Florea, F. Pop (eds.), 299-305, The Institute of Electrical and Electronics Engineers, Los Alamitos, CA, USA, 2013.

4. Milošević NT., Krstonošić B., Elston GN., Rajković N. Box-count analysis of two dimensional images: methodology, analysis and classification, Proceedings of 19th International Conference on Control Systems and Computer Science, Vol. 2: Interdisciplinary approaches in fractal analysis IAFA 2013, I. Dumitrache, A. Magda Florea, F. Pop (eds.), 306-312, The Institute of Electrical and Electronics Engineers, Los Alamitos, CA, USA, 2013.

5. Marić DL., Milošević NT., Jelinek HF., Rajković K. Neurons of the human dentate nucleus: box-count method in the quantitative analysis of cell morphology, Proceedings of 19th International Conference on Control Systems and Computer Science, Vol. 2: Interdisciplinary approaches in fractal analysis IAFA 2013, I. Dumitrache, A. Magda Florea, F. Pop (eds.), 319-324, The Institute of Electrical and Electronics Engineers, Los Alamitos, CA, USA, 2013.

6. Milošević NT. Fractal analysis of two dimensional images: parameters of the space-filling and shape, Proceedings of 20th International Conference on Control Systems and Computer Science, Vol. 2: IAFA: Fractal Analysis of Medical Images, I. Dumitrache, A. Magda Florea, F. Pop, A. Dumitrascu (eds.), 539-544, The Institute of Electrical and Electronics Engineers, Los Alamitos, CA, USA, 2015.



 **naučni savetnik dr Marko Radulović**

1. Pribic J., Vasiljevic J., Kanjer K., Neskovic Konstantinovic Z., Milosevic N.T, Nikolic Vukosavljevic D., Radulovic M. 2015. Fractal Dimension and Lacunarity of Tumour Microscopic Images as Prognostic Indicators of Clinical Outcome in Early Breast Cancer. Biomarkers in Medicine, 9(12):1279-1287. doi: 10.2217/bmm.15.102.

2. Kolarevic D., Tomasevic Z., Dzodic R., Kanjer K., Nikolic-Vukosavljevic D., Radulovic M. 2015. Early prognosis of metastasis risk in inflammatory breast cancer by texture analysis of tumour microscopic images. Biomedical Microdevices, 17(5):92, doi: 10.1007/s10544-015-9999-9.

3. Vasiljevic J., Pribic J., Kanjer K., Jonakowski W., Sopta J., Nikolic-Vukosavljevic D., Radulovic M. 2015. Early prognosis of metastasis risk in inflammatory breast cancer by texture analysis of tumour microscopic images. Biomedical Microdevices, 17(5):93, DOI: 10.1007/s10544-015-9999-9.

4. Vujasinovic T., Pribic J., Kanjer K., T. Milosevic N.T, Tomasevic Z., Milovanovic Z., Nikolic-Vukosavljevic D., Radulovic M. 2015. Gray-Level Co-Occurrence Matrix Texture Analysis of Breast Tumor Images in Prognosis of Distant Metastasis Risk. Microscopy and Microanalysis, 21:646-654.

5. Baqader N.O., Radulovic M., Crawford M., Stoeber K., Godovac-Zimmermann J. 2014. Nuclear Cytoplasmic Trafficking of Proteins is a Major Response of Human Fibroblasts to Oxidative Stress. Journal of Proteome Research 13:4398-423.

6. Pinto G., Alhaiek A.A.M., Amadi S., Qattan A.T., Crawford M., Radulovic M., Godovac-Zimmermann J. 2014. Systematic nucleo-cytoplasmic trafficking of proteins following exposure of MCF7 breast cancer cells to estradiol. Journal of Proteome Research 13:1112-1127.

7. Qattan A.T., Radulovic M, Crawford M, Godovac-Zimmermann J. 2012. Spatial distribution of cellular function: the partitioning of proteins between mitochondria and the nucleus in MCF7 breast cancer cells. Journal of Proteome Research 11:6080-6101.

8. Radulovic M., Godovac-Zimmermann J. 2011. Proteomic approaches to understanding the role of the cytoskeleton in host-defense mechanisms. Expert Review of Proteomics, 8:117-126.

9. Radulovic M., Crawford M., Godovac-Zimmermann J., Yu V. 2010. CKS proteins protect mitochondrial genome integrity by interacting with mitochondrial single-stranded DNA-binding protein. Molecular and Cellular Proteomics, 9:145-152.

10. Clyne M., Offman J., Shanley S., Virgo J. D., Radulovic M., Wang Y., Arden-Jones A., Eeles R., Hoffmann E. and Yu V. 2009. The G67E mutation in hMLHI is associated with an unusual presentation of Lynch syndrome. British Journal of Cancer, 100:376-380.

11. Xu P., Crawford M., Way M., Godovac-Zimmermann J., Segal A. W., Radulovic M. 2009. Subproteome Analysis of the Neutrophil Cytoskeleton. Proteomics, 9:2037-2049.

12. Todorovic C., Radulovic J., Jahn O., Radulovic M., Sherrin T., Hippel C., Spiess J. 2007. Differential activation of CRF receptor subtypes removes stress-induced memory deficit and anxiety. European Journal of Neuroscience, 25:3385-3397.

13. Radulovic M., Marks D.J.B., McCartney S., Bloom S., Segal A.W. 2007. Modified skin window technique for the extended characterisation of acute inflammation in humans. Inflammation Research, 56:168-174.

14. Xu P., Roes J., Segal A.W., Radulovic M. 2006. The role of grancalcin in adhesion of neutrophils. Cellular Immunology, 240:116-121.

15. Fischer A., Radulovic M., Schrick C., Sananbenesi F., Godovac-Zimmermann J., Radulovic J. 2006. Hippocampal Mek/Erk signaling mediates extinction of contextual freezing behavior. Neurobiology of Learning and Memory, 87:149-158.

16. Morgan C.P., Allen-Baume V., Radulovic M., Li M., Skippen A., Cockcroft S. 2006. Differential expression of a C-terminal splice variant of phosphatidylinositol transfer protein beta lacking the constitutive-phosphorylated Ser262 that localizes to the Golgi compartment. Biochemical Journal, 398:411-421.

17. Radulovic M., Hippel C., Spiess J. 2003. Corticotropin-releasing factor rapidly suppresses apoptosis by acting upstream of the activation of caspases. Journal of Neurochemistry, 84:1074-1085.

18. Eckart K., Jahn O., Radulovic J., Radulovic M., Blank T., Stiedl O., Brauns O., Zeyda T., Spiess J. 2002. Pharmacology and biology of corticotropin-releasing factor (CRF) receptors. Receptors and Channels, 8:163-177.

19. Radulovic M., Spiess J. 2001. Corticotropin releasing factor´s role in the immune response. Recent Research Developments in Immunology, 3:117-126.

20. Kishimoto T., Radulovic J., Radulovic M., Lin C.R., Schrick C., Hooshmand F., Hermanson O., Rosenfeld M.G., Spiess J. 2000. Gene deletion reveals an anxiolytic role for corticotropin-releasing factor receptor 2. Nature Genetics, 24:415-419.

21. Radulovic M., Weber C., Spiess J. 2000. The effect of acute immobilization stress on the abundance of corticotropin –releasing factor receptor in lymphoid organs. Journal of Neuroimmunology, 103:153-164.

22. Radulovic M., Dautzenberg F.M., Sydow S., Radulovic J., Spiess J. 1999. Corticotropin-releasing factor receptor 1 in mouse spleen: expression after immune stimulation and identification of receptor-bearing cells. The Journal of Immunology, 162:3013-3021