

Na osnovu člana 129. Statuta Univerziteta u Beogradu i članova 141 – 143. Statuta Univerziteta u Beogradu – Fakulteta za fizičku hemiju, a po izveštaju Komisije referenata, br. 156/1 od 12.02.2009. godine, Izorno veće Fakulteta, na VI redovnoj sednici, održanoj 28.03.2013. godine, donosi sledeću

O D L U K U

1.- Utvrđuje se predlog za izbor **dr Vladane Vukojević, vanrednog profesora, Medicinski univerzitet, Karolinska institut, Stokholm, Švedska**, u zvanje **gostujući profesor** na Fakultetu za fizičku hemiju.

2.- Ova odluka se dostavlja Senatu Univerziteta u Beogradu radi donošenja odluke o izboru.

Odluku dostaviti:

- Senatu Univerziteta
u Beogradu,
- Arhivi Fakulteta.

D e k a n
Fakulteta za fizičku hemiju

Prof. dr Šćepan Miljanić

ИМЕ И ПРЕЗИМЕ: Vladana Vukojević, Medicinski univerzitet, Karolinska Institut, Štokholm, Švedska

**РАДОВИ У
МЕЂУНАРОДНИМ
ЧАСОПИСИМА**

49 (M21=32, M22=7, M23=10)

1. Lundius EG, Stroth N, **Vukojević V**, Terenius L, Svenningsson P. Functional GPR37 trafficking protects against toxicity induced by 6-OHDA, MPP+ or rotenone in a catecholaminergic cell line. J Neurochem. 2012 124:410-417.
2. Solé-Domènech S, Sjövall P, **Vukojević V**, Fernando R, Codita A, Salve S, Bogdanović N., Mohammed AH, Hammarström P, Nilsson PR, LaFerla FM, Giménez-Llort L, Jacob S, Berggren P-O, Schalling M, Terenius L, Johansson B. Localization of Cholesterol, Amyloid and Glia in Alzheimer's Disease Transgenic Mouse Brain Tissue Using Time-of-Flight Secondary Ion Mass Spectrometry (ToF-SIMS) and Immunofluorescence Imaging. Acta Neuropathologica, 2012 125:145-157
3. Papadopoulos E, Collet JF, **Vukojević V**, Billeter M, Holmgren A, Gräslund A, Vlamis-Gardikas A. Solution structure and biophysical properties of MqsA, a Zn-containing antitoxin from Escherichia coli. Biochim Biophys Acta. Protein and Proteomic 2012 1824:1401-1408
4. Haglund F, Lu M, **Vukojević V**, Nilsson IL, Andreasson A, Džabić M, Bränström R, Höög A, Juhlin CC, Larsson C. Prolactin receptor in primary hyperparathyroidism--expression, functionality and clinical correlations. PLoS One. 2012 7:e36448.
5. Gruol DL, Nelson TE, Michaels S, **Vukojević V**, Ming Y, Terenius L. Ethanol Alters Opioid Regulation of Ca²⁺ Influx through L-type Ca²⁺ Channels in PC12 Cells. Alcoholism.clinical and experimental research, 2011, *in press*.
6. Arzenani MK, Zade AE, Ming Y, Vijverberg SJ, Zhang Z, Khan Z, Sadique S, Kallenbach L, Hu L, **Vukojević V**, Ekström TJ. Genomic DNA hypomethylation by HDAC inhibition implicates DNMT1 nuclear dynamics. Mol Cell Biol. 2011, **31**:4119-4128
7. **Vukojević V**, Bowen AM, Wilhelm K, Ming Y, Ce Z, Schleucher J, Hore PJ, Terenius L, Morozova-Roche LA. Lipo-protein complex of equine lysozyme with oleic acid (ELOA) interactions with the plasma membrane of live cells Langmuir 2010, **26**, 14782-14787
8. **Vukojević V**, Papadopoulos DK, Terenius L, Gehring W, Rigler R Quantitative study of synthetic Hox transcription factor-DNA interactions in live cells Proc Natl Acad Sci USA 2010, **107**, 4087-4092
9. Papadopoulos DK, **Vukojević V**, Adachi J, Terenius L, Rigler R,

	Gehring W Function and specificity of synthetic Hox transcription factors in vivo <i>Proc Natl Acad Sci USA</i> 2010, 107, 4093-4098. 10. Jelić S, Čupić Ž, Kolar-Anić Lj, Vukojević V. Predictive Modelling of the Hypothalamic-Pituitary-Adrenal (HPA) function. Dynamic Systems Theory Approach by Stoichiometric Network Analysis and Quenching Small Amplitude Oscillations <i>Int J Nonlin Sci Num</i>, 2009, 10, 1451-1472 11. Vukojević V, Ming Y, D'Addario C, Rigler R, Johansson B, Terenius L Ethanol/Naltrexone Interactions at the mu-Opioid Receptor. CLSM/FCS Study in Live Cells <i>PLoS ONE</i>, 2008, 3:e4008. 12. Vukojević V, Heidkamp M, Ming Y, Johansson B, Terenius L, Rigler R Quantitative single-molecule imaging by Confocal Laser Scanning Microscopy <i>Proc Natl Acad Sci USA</i>, 2008, 105, 18176-18181. 13. Vukojević V, Ming Y, D'Addario C, Hansen M, Langel Ü, Schulz R, Johansson B, Rigler R, Terenius L μ-opioid receptor activation in live cells <i>FASEB J</i>, 2008, 22, 3537-3548 14. Lu M, Forsberg L, Höög A, Juhlin CC, Vukojević V, Larsson C, Conigrave AD, Delbridge L, Gill A, Bark C, Farnebo LO, Bränström R. Heterogeneous expression of SNARE proteins SNAP-23, SNAP-25, Syntaxin1 and VAMP in human parathyroid tissue <i>Mol Cell Endocrinol</i>, 2008, 287, 72-80 15. Hugonin L, Vukojević V, Bakalkin G, Gräslund A. Calcium influx into phospholipid vesicles caused by dynorphin neuropeptides <i>BBA-Biomembranes</i>, 2008, 1778, 1267–1273 16. Pejić N, Blagojević S, Anić S, Vukojević V, Mijatović M, Ćirić J, Marković Z, Marković S, Kolar–Anić Lj. Kinetic determination of morphine by means of Bray-Liebhafsky oscillatory reaction system using analyte pulse perturbation technique <i>Anal. Chim. Acta</i>, 2007, 582, 367-374 17. Kuntić V, Pejić N, Ivković B, Vujić Z, Ilić K, Mičić S, Vukojević V. Isocratic RP–HPLC method for rutin determination in solid oral dosage forms <i>J. Pharmaceut. Biomed.</i> 2007, 43, 718-721 18. Schmitz G, Kolar-Anić Lj, Anić S, Grozdić T, Vukojević V.
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	Complex and chaotic oscillations in a model for the catalytic hydrogen peroxide decomposition under open reactor conditions <i>J. Phys. Chem. A</i>, 2006, 110, 10361-10368 19. Hugonin L, Vukojević V, Bakalkin G, Gräslund A. Membrane leakage induced by dynorphins <i>FEBS Lett.</i> 2006, 580, 3201-3205. 20. Woods AS, Kaminski R, Wang Y, Ozl M, Hauser KF, Goody R, Wang H-Y J, Zeitz P, Zeitz KP, Zolkowska D, Schepers R, Chang C-F, Shen H. Nold M. Danielson J, Gräslund A, Vukojević V, Bakalkin G, Basbaum A, Shippenberg T. Novel decoy peptides scavenge dynorphin preventing ischemic brain injury and NMDA receptor-mediated neurotoxicity <i>J. Proteome Res.</i> 2006, 5, 1017-1023. 21. Marinova Z, Vukojević V, Surcheva S, Yakovleva T, Cebers G, Pasikova N, Usynin I, Hugonin L, Fang W, Hallberg M, Hirschberg D, Bergman T, Langel U, Hauser KF, Pramanik A, Aldrich JV, Gräslund A, Terenius L, Bakalkin G. Translocation of dynorphin neuropeptides across the plasma membrane. A putative mechanism of signal transmission. <i>J. Biol. Chem.</i> 2005, 280, 26360-26370 22. Popović-Bijelić A, Bijelić G, Kolar-Anić Lj, Vukojević V. Numerically simulated pH induced reactivation of catalytic activity of horseradish peroxidase <i>Ann. NY Acad. Sci.</i> 2005, 1048, 457-460. 23. Pejić N, Blagojević S, Anić S, Vukojević V, Kolar-Anić Lj. Microquantitative determination of hesperidin by pulse perturbation of the oscillatory reaction system <i>Anal. Bioanal. Chem.</i>, 2005, 381, 775-780. 24. Stanisavljev D, Vukojević V. Investigation of the Influence of Heavy Water on Kinetic Pathways in the Bray-Liebhafsky Reaction <i>J. Phys. Chem. A</i>, 2002, 106, 5618-5625. 25. Vukojević V, Anić S, Kolar- Anić Lj. Investigation of the Dynamic Behavior of the Bray-Liebhafsky Reaction in the CSTR. Properties of the System Examined by Pulsed Perturbations with I⁻ <i>Phys. Chem. Chem. Phys.</i>, 2002, 4, 1276-1283 26. Vukojević V, Anić S, Kolar-Anić Lj. Investigation of the Dynamic Behavior of the Bray-Liebhafsky Reaction in the CSTR. Determination of Bifurcation Points <i>J. Phys. Chem. A</i>, 2000, 104, 10731-10739. 27. Vukojević V, Pejić N, Stanisavljev D, Anić S, Kolar-Anić Lj. Determination of Cl⁻, Br⁻, I⁻, Mn²⁺, Malonic Acid and Quercetin by Perturbation of a Nonequilibrium Stationary State in the Bray-Liebhafsky Reaction <i>The Analyst</i>, 1999, 124, 147-153 28. Kuntić V, Malešev D, Radović Z, Kosanić M, Mioč U, Vukojević V.
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	Spectrophotometric Investigation of Uranyl(II)-Rutin Complex in 70% Ethanol <i>J. Agric. Food Chem.</i> 1998, 46, 5139-5142. 29. Stanisavljev D, Begović N, Vukojević V. The Influence of Heavy Water on the Bray-Liebafsky Oscillating Reaction <i>J. Phys. Chem. A</i>, 1998, 102, 6887-6891 30. Vukojević V, Graae Sørensen P, Hynne F. Predictive Value of a Model of the Briggs-Rauscher Reaction Fitted to Quenching Experiments <i>J. Phys. Chem.</i> 1996, 100, 17175-17185 31. Vukojević V, Graae Sørensen P, Hynne F Quenching Analysis of the Briggs-Rauscher Reaction <i>J. Phys. Chem.</i> 1993, 97, 4091-4100. 32. Vukojević V, Pramanik A, Yakovleva T, Rigler R, Terenius L, Bakalkin G. Study of Molecular Events in Cells by Fluorescence Correlation Spectroscopy <i>Cell. Mol. Life. Sci.</i>, 2005, 62, 535-550. (Pregledni rad) 1.2. Rad u istaknutom međunarodnom časopisu M(22) poena 5 1. Marino AM, Sofiadis A, Baryawno N, Johnsen JJ, Larsson C, Vukojević V, Ekström TJ. Enhanced effects by 4-phenylbutyrate in combination with RTK inhibitors on proliferation in brain tumor cell models. <i>Biochem Biophys Res Commun.</i> 2011 411:208-212. 2. Wilhelm K, Darinskas A, Noppe W, Duchardt E, Hun Mok K, Vukojević V, Schleucher J, Morozova-Roche L Protein oligomerisation induced by oleic acid at the solid-liquid interface: equine lysozyme cytotoxic complexes <i>FEBS J</i>, 2009, 276, 3975-3989 3. Kuntić V, Stanojević M, Holclajtner-Antunović I, Uskoković-Marković S, Mioč U, Todorović M, Jovanović T, Vukojević V. Synthesis, characterization and biological activity of amino acid derivatives of the heteropoly tungstophosphate acid <i>Monatsh. Chem.</i> 2006, 137, 803-810. 4. Yakovleva T, Kolesnikova L, Vukojević V, Gileva I, Tan-No K, Austen M, Lüscher B, Ekström TJ, Terenius L, Bakalkin, G. YY1 binding to a subset of p53 DNA-target sites regulates p53-dependent transcription <i>Biochem. Biophys. Res. Commun.</i> 2004, 318, 615-624. 5. Vukojević V, Yakovleva T, Terenius L, Pramanik A, Bakalkin G.
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	Denaturation of dsDNA by p53: fluorescence correlation spectroscopy study <i>Biochem. Biophys. Res. Commun.</i> 2004, 316, 1150-1155. 6. Pejić N, Anić S, Kuntić V, Vukojević V, Kolar-Anić Lj. Kinetic Determination of Microquantities of Rutin by Perturbation of the Bray-Liebhaafsky Reaction in an Open System <i>Microchim. Acta.</i> 2003, 143, 261-267. 7. Kuntić V, Malešev D, Radović Z, Vukojević V. Spectrophotometric Investigation of the Complexing Reaction of Titanyloxalato Anion with Rutin in 50% Ethanol <i>Monatsh. Chem.</i> 2000, 131, 769-777. 1.3 Rad u međunarodnom časopisu M23, poena 3 1. Vukojević V, Gräslund A, Bakalkin G. Fluorescence imaging with single-molecule sensitivity and fluorescence correlation spectroscopy of cell-penetrating neuropeptides. <i>Methods Mol Biol.</i> 2011, 789:147-70. 2. Marković VM, Čupić Ž, Vukojević V, Kolar-Anić L. Predictive modeling of the hypothalamic-pituitary-adrenal (HPA) axis response to acute and chronic stress. <i>Endocr J.</i> 2011 in press PMID:21852742 3. Popović-Bijelić A, Bijelić G, Kolar-Anić Lj, Vukojević V Temperature dependence of oxygen evolution through catalase-like activity of Horseradish Peroxidase <i>Russ. J. Phys. Chem.</i> 2007, 81, 1371-1373 4. Kuntić V, Pejić N, Mičić S, Vukojević V, Vujić Z, Malešev D. Determination of quercetin in pharmaceutical formulations via its reaction with potassium-titanyloxalate. Determination of the stability constants of the quercetin-titanyloxalato complex <i>J. Serb. Chem. Soc.</i> 2005, 70, 753-763. 5. Vukojević V, Pejić N, Stanisavljev D, Anić S, Kolar-Anić Lj. Microquantitative Determination of Quercetin by Perturbation of a Non-equilibrium Stationary State in the Bray-Liebhaafsky Reaction <i>Die Pharmazie</i>, 2001, 56, 897-898. 6. Anić S, Stanisavljev D, Čupić Ž, Radenković M, Vukojević V, Kolar-Anić Lj. The Oscillatory Bray-Liebhaafsky Reaction as a Matrix for Analyzing Enzyme and Polymeric Catalysts for Hydrogen Peroxide <i>Sci. Sinter.</i> 2001, 33, 107-115.. 7. Anić S, Stanisavljev D, Čupić Ž, Radenković M, Vukojević V, Kolar-Anić Lj. Selforganisation Phenomena During Catalytic Decomposition of Hydrogen Peroxide <i>Sci. Sinter.</i> 1998, 30, 49-57 .
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		8. Stanisavljev D, Vukojević V. Thermochemical Effects Accompanying Oscillations in the Bray-Liebhaafsky Reaction <i>J. Serb. Chem. Soc.</i> 1995, 60, 1125-34. 9. Anić S, Veselinović D, Vukojević V, Radenković M. Electrochemical Source of Alternating Current Based on an Oscillating Reaction <i>J. Serb. Chem. Soc.</i> 1994, 59, 457-61. 10. Anić S, Vukojević V, Radenković M, Kolar-Anić Lj New Approach to the Study of the Peroxide Kinetic of the Briggs-Rauscher Reaction <i>J. Serb. Chem. Soc.</i> 1989, 54, 521-525.
РАДОВИ САОПШТЕНИ НА МЕЂУН. СКУПОВИМА		>50
РЕЗУЛТАТИ У РАЗВОЈУ ОБРАЗОВНО- НАУЧНЕ ОБЛАСТИ		Udžbenik: Lj. Kolar-Anić, Ž. Čupić, V. Vukojević, S. Anić <i>Dinamika Nelinearnih Procesa</i> Publisher: University of Belgrade, 2011. Serbian. ISBN 978-86-82139-36-2 Osmislila i formirala novi predmet na Karolinska Institutu, Štokholm, Švedska Naziv predmeta: Functional Fluorescence Microscopy Imaging (fFMI) in Biomedical Research Gostujući professor Brain Gain Program plus (BGP+), World University Service (WUS) Austria
ЦИТИРАНОСТ НАУЧНИХ РЕЗУЛТАТА		525
МЕЂУНАРОДНА РЕПУТАЦИЈА	ГОСТ УРЕДНИК МЕЂУНАРОДНОГ ЧАСОПИСА	Frontiers in Biosciences
	ПРЕДСЕДАВАО МЕЂУНАРОДНИМ НАУЧНИМ КОНФЕРЕНЦИЈАМА	Invited speaker at the Kappa Therapeutics Conference, Cambridge, MA, April 24-27, 2013 Chairperson and Section speaker at Physical Chemistry 2012 – 11th International Conference on Fundamental and Applied Aspects of Physical Chemistry, September 24-28, Belgrade, Serbia Chairperson and Section speaker at the Regional Biophysics Conference 2012, 3-7 September, Kladovo-Belgrade, Serbia Invited speaker at the International Symposium on Photonic Bioimaging, Satellite Symposium of Worldsleap 2011 on Human Circadian Clock - the 50th anniversary of temporal isolation study, 21-23, October, 2011, Sapporo, Japan Invited speaker at the EUROanalysis 16, European Conference on Analytical Chemistry, Challenges in Modern Analytical Chemistry, September 11-15, 2011, Belgrade, Serbia Invited speaker at The 13th Workshop on Fluorescence Correlation Spectroscopy and Related Methods, Oct 25-27, 2010, Singapore

		Invited speaker at the NorMIC Users Meeting on Fluorescence Correlation Spectroscopy and Related Methods, March 10-12, 2010, Jena, Germany Chairperson and Section speaker 9th International Conference on Fundamental and Applied Aspects of Physical Chemistry "Physical Chemistry 2008"; Belgrade, Serbia Chairperson and Section speaker 7th International Conference on Fundamental and Applied Aspects of Physical Chemistry "Physical Chemistry 2006"; Belgrade, Serbia
	ЧЛАНСТВО У УРЕЂИВАЧКИМ ОДБОРИМА МЕЂУНАРОДНИХ НАУЧНИХ ЧАСОПИСА	
	АУТОР МЕЂУНАРОДНЕ МОНОГРАФИЈЕ	Poglavlja u međunarodnim monografijama: 1. Vukojević V, Yakovleva T, Bakalkin G. Modes of p53 interactions with DNA in the chromatin context The p53 pathway, A. Ayed and T. Hupp (Eds), Publisher: Landes Biosciences, 2010, pp127-141, ISBN 978-1-4419-8230-8 http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?CMD=search&DB=Books 2. Vukojević V, Ming Y, Terenius L. Molecular mechanisms underlying opioid receptor function Methods for the Discovery and Characterization of G protein-coupled receptors, Editor Craig W. Stevens, Springer Protocols, Humana Press, 2011, pp359-377 ISBN 978-1-61779-178-9 3. Vukojević V, Ming Y, Terenius L. Opioid receptors Encyclopedia of Signaling Molecules, Editor Sangdun Choi, Springer, 2012, pp1304-1312 ISBN 978-1-4419-0460-7, ISBN 978-1-4419-0461-4 (eBook) 4. Vukojević V, Morozova-Roche LA Structural Origin of ELOA Toxicity – Implication for HAMLET-Type Protein Complexes with Oleic Acid Lipoproteins - Role in Health and Diseases, S. Frank and G. Kostner (Eds), InTech, 2012, pp 663-674. ISBN 978-953-51-0773-6, DOI: 10.5772/2931 663-674
НАПОМЕНА		Gostujući profesor Univerzitet u Beogradu je izabrao Dr Vladanu Vukojević u zvanje gostujući profesor 14. 12. 2011. godine, ali kako Fakultet za fizičku hemiju bira nastavnike u to zvanje samo na godinu dana, procedura je ponovo pokrenuta u jesen 2012. godine. Autor domaće monografije Kolar-Anić Lj, Anić S, Vukojević V <i>Dynamics of Nonlinear Processes. From monotonous to oscillatory evolution</i> Publisher: University of Belgrade, 2005. Serbian.

D e k a n

Fakulteta za fizičku hemiju

Prof. dr Šćepan Miljanić

IZBORNOM VEĆU FAKULTETA ZA FIZIČKU HEMIJU

Na sednici izbornog veća Fakulteta za fizičku hemiju održanoj 17. 01. 2013. godine imenovani smo u komisiju za izbor **dr Vladane Vukojević**, vanrednog profesora Karolinka instituta, Štokholm, Švedska u zvanje *gostujući profesor*, na osnovu člana 141 Statuta Fakulteta za fizičku hemiju.

Na osnovu priložene i prikupljene dokumentacije, podnosimo sledeći

REFERAT

A Biografija

Kandidat dr Vladana Vukojević, rođena 05.08.1965. godine u Beogradu, upisala je 1984/85 godine studije fizičke hemije na Fakultetu za fizičku hemiju, PMF-a, a diplomirala 1989. godine.

Poslediplomske studije na Fakultetu za fizičku hemiju upisala je 1989. godine. U toku 1990-1991 boravila je na stručnom usavršavanju na H. C. Ørsted Institutu, Univerzitet u Kopenhagenu, Danska, gde je uradila deo eksperimentalnih ispitivanja za magistarski rad. Magistarski rad pod naslovom „Eksperimentalna i teorijska analiza Briggs-Rauscher-ovog oscilatornog sistema metodom prigušivanja oscilacija“, odbranila je 1993. godine na Fakultetu za fizičku hemiju.

Primljena je kao asistent na Fakultetu za fizičku hemiju 1992. godine. U toku 1992-1999. godine radila je kao asistent na predmetu Fizička hemija i instrumentalne metode, Farmaceutski fakultet (do 30 % radnog vremena).

Doktorsku tezu pod naslovom: “Bifurkaciona i perturbaciona analiza Bray-Liebhafsky reakcije” odbranila je na Fakultetu za fizičku hemiju u Beogradu 2000. godine.

2001. godine izabrana je u zvanje docenta za predmet Biofizička hemija (za studente četvrte godine) Fakulteta za fizičku hemiju. Nastavu iz ovog predmeta vodila je do 2005. godine.

Od 2005. godine radi na Karolinska Institutu, Štokholm, Švedska, gde je 2011. godine izabrana u zvanje vanrednog profesora biohemije.

B. Disertacija

1. Vladana Vukojević, „Eksperimentalna i teorijska analiza Briggs-Rauscher-ovog oscilatornog sistema metodom prigušivanja oscilacija“, magistarska teza, Beograd 1993.

2. Vladana Vukojević, “Bifurkaciona i perturbaciona analiza Bray-Liebhafsky reakcije”, doktorska disertacija, Beograd, 2000.

C. Nastavna delatnost:

U toku asistentskog staža na Fakultetu za fizičku hemiju je držala studentske vežbe iz predmeta: 1) Opšti kurs fizičke hemije za studente fizičke hemije, 2) Biofizička hemija, 3) Fizička hemija u zaštiti životne sredine, 4) Dinamika nelinearnih procesa, 5) Uvod u laboratorijski rad i 6) Fizička hemija i instrumentalne metode na Farmaceutskom fakultetu.

Na Fakultetu za fizičku hemiju je uvela nove eksperimentalne vežbe, osavremenila predavanja, pripremila interna skripta i uputstva za vežbe iz predmeta Biofizička hemija. U

saradnji sa kolegama učestvovala je u formiranju eksperimentalnih vežbi, numeričkih simulacija i udžbenika za predmet Dinamika nelinearnih procesa.

Na Karolinska Institutu, dr Vladana Vukojević je uvela novi predmet „Functional Fluorescence Microscopy Imaging (fFMI) in Biomedical Research“. Pod pokroviteljstvom programa „Brain Gain Plus“, World University Service (WUS) Austria, deo nastave iz ovog predmeta održala je i na Fakultetu za fizičku hemiju, 6-10. 6. 2011. godine, gde su slušaoci bili iz raznih institucija (Fakultet za fizičku hemiju, Institut za fiziku, Farmaceutski fakultet, Medicinski fakultet i Biološki fakultet).

dr Vladana Vukojević se veoma zalaže da nastava koju drži bude na što višem nivou. U tom cilju uvodi savremene metode u proces nastave i, koristeći svoje iskustvo u laboratorijskom i teorijskom radu, motiviše i značajno pomaže studentima u izradi završnih, diplomskih i doktorskih radova.

dr Vladana Vukojević je trenutno komentor u izradi 2 doktorska rada na Karolinska Institutu i rukovodila je izradu 1 master i 4 diplomskih rada. Na Fakultetu za fizičku hemiju je učestvovala u izradi 1 doktorskog rada, rukovodila je izradu 1 magistarskog rada i učestvovala u izradi 7 završnih radova na osnovnim studijama. Učestvovala je u 1 komisiji za odbranu doktorskih radova na Karolinska Institutu. Na Fakultetu za fizičku hemiju učestvovala je u 2 komisije za odbranu magistarske teze i 6 komisija za odbranu diplomskih (završnih) radova.

D. Udžbenici zbirke zadatka , praktikumi i monografije

Monografija:

1. Ljiljana Kolar-Anić, Slobodan Anić, Vladana Vukojević
Dinamika nelinearnih procesa – Od monotone do oscilatorne evolucije,
Fakultet za fizičku hemiju, Univerzitet u Beogradu, Beograd 2004.
Monografija od 240 strana.
ISBN: 86-82139-12-3
UDK 544.431.8

Udžbenik:

2. Ljiljana Kolar-Anić, Željko Čupić, Vladana Vukojević, Slobodan Anić
Dinamika nelinearnih procesa
Fakultet za fizičku hemiju, Univerzitet u Beogradu, Beograd 2011.
Knjiga od 400 strana
ISBN: 978-86-82139-36-2

E. Naučno-istraživačka delatnost

dr Vladana Vukojević je svoj istraživački rad, inicijalno posvećen ispitivanju dinamike i mehanizama nelinearnih hemijskih sistema, usmerila ka istraživanju složenih bioloških procesa.

U svom naučnoistraživačkom radu publikovala je **50 radova u međunarodnim časopisima** od čega **32** u časopisima kategorije **M21**, **7** u časopisima kategorije **M22** i **11** u časopisima kategorije **M23**. Rezultate istraživanja izložila je na više od **40** skupova međunarodnog značaja, od čega **11** puta kao predavač po pozivu ili plenarni predavač.

Radovi dr Vladane Vukojević su, prema izveštaju Univerzitetske biblioteke, citirani **525** puta.

Publikovani radovi

1.1. Rad u vrhunskom međunarodnom časopisu M21, poena 8

31. Lundius EG, Stroth N, **Vukojević V**, Terenius L, Svenningsson P.
Functional GPR37 trafficking protects against toxicity induced by 6-OHDA, MPP+ or rotenone in a catecholaminergic cell line.
J Neurochem. 2012 124:410-417.
32. Solé-Domènech S, Sjövall P, **Vukojević V**, Fernando R, Codita A, Salve S, Bogdanović N, Mohammed AH, Hammarström P, Nilsson PR, LaFerla FM, Giménez-Llort L, Jacob S, Berggren P-O, Schalling M, Terenius L, Johansson B.
Localization of Cholesterol, Amyloid and Glia in Alzheimer's Disease Transgenic Mouse Brain Tissue Using Time-of-Flight Secondary Ion Mass Spectrometry (ToF-SIMS) and Immunofluorescence Imaging.
Acta Neuropathologica, 2012 125:145-157
33. Papadopoulos E, Collet JF, **Vukojević V**, Billeter M, Holmgren A, Gräslund A, Vlamis-Gardikas A.
Solution structure and biophysical properties of MqsA, a Zn-containing antitoxin from Escherichia coli.
Biochim Biophys Acta. 2012 1824:1401-1408
34. Haglund F, Lu M, **Vukojević V**, Nilsson IL, Andreasson A, Džabić M, Bränström R, Höög A, Juhlin CC, Larsson C.
Prolactin receptor in primary hyperparathyroidism--expression, functionality and clinical correlations.
PLoS One. 2012 7:e36448.
35. **Vukojević V**, Gräslund A, Bakalkin G.
Fluorescence imaging with single-molecule sensitivity and fluorescence correlation spectroscopy of cell-penetrating neuropeptides.
Methods Mol Biol. 2011 789:147-170.
36. Gruol DL, Nelson TE, Michaels S, **Vukojević V**, Ming Y, Terenius L. Ethanol Alters Opioid Regulation of Ca²⁺ Influx through L-type Ca²⁺ Channels in PC12 Cells.
Alcoholism: clinical and experimental research, 2011, *in press*.
37. Arzenani MK, Zade AE, Ming Y, Vijverberg SJ, Zhang Z, Khan Z, Sadique S, Kallenbach L, Hu L, **Vukojević V**, Ekström TJ.
Genomic DNA hypomethylation by HDAC inhibition implicates DNMT1 nuclear dynamics.
Mol Cell Biol. 2011, **31**:4119-4128
38. **Vukojević V**, Bowen AM, Wilhelm K, Ming Y, Ce Z, Schleucher J, Hore PJ, Terenius L, Morozova-Roche LA.
Lipo-protein complex of equine lysozyme with oleic acid (ELOA) interactions with the plasma membrane of live cells
Langmuir 2010, **26**, 14782-14787
39. **Vukojević V**, Papadopoulos DK, Terenius L, Gehring W, Rigler R
Quantitative study of synthetic Hox transcription factor–DNA interactions in live cells
Proc Natl Acad Sci USA 2010, **107**, 4087-4092
40. Papadopoulos DK, **Vukojević V**, Adachi J, Terenius L, Rigler R, Gehring W
Function and specificity of synthetic Hox transcription factors in vivo
Proc Natl Acad Sci USA 2010, **107**, 4093-4098.

41. Jelić S, Čupić Ž, Kolar-Anić Lj, **Vukojević V**.
Predictive Modelling of the Hypothalamic-Pituitary-Adrenal (HPA) function. Dynamic Systems Theory Approach by Stoichiometric Network Analysis and Quenching Small Amplitude Oscillations
Int J Nonlin Sci Num, 2009, **10**, 1451-1472
42. **Vukojević V**, Ming Y, D'Addario C, Rigler R, Johansson B, Terenius L
Ethanol/Naltrexone Interactions at the mu-Opioid Receptor. CLSM/FCS Study in Live Cells
PLoS ONE, 2008, **3**:e4008.
43. **Vukojević V**, Heidkamp M, Ming Y, Johansson B, Terenius L, Rigler R
Quantitative single-molecule imaging by Confocal Laser Scanning Microscopy
Proc Natl Acad Sci USA, 2008, **105**, 18176-18181.
44. **Vukojević V**, Ming Y, D'Addario C, Hansen M, Langel Ü, Schulz R, Johansson B, Rigler R, Terenius L
 μ -opioid receptor activation in live cells
FASEB J, 2008, **22**, 3537-3548
45. Lu M, Forsberg L, Höög A, Juhlin CC, **Vukojević V**, Larsson C, Conigrave AD, Delbridge L, Gill A, Bark C, Farnebo LO, Bränström R.
Heterogeneous expression of SNARE proteins SNAP-23, SNAP-25, Syntaxin1 and VAMP in human parathyroid tissue
Mol Cell Endocrinol, 2008, **287**, 72-80
46. Hugonin L, **Vukojević V**, Bakalkin G, Gräslund A.
Calcium influx into phospholipid vesicles caused by dynorphin neuropeptides
BBA-Biomembranes, 2008, **1778**, 1267–1273
47. Pejić N, Blagojević S, Anić S, **Vukojević V**, Mijatović M, Ćirić J, Marković Z, Marković S, Kolar–Anić Lj.
Kinetic determination of morphine by means of Bray-Liebhaafsky oscillatory reaction system using analyte pulse perturbation technique
Anal. Chim. Acta, 2007, **582**, 367-374
48. Kuntić V, Pejić N, Ivković B, Vujić Z, Ilić K, Mičić S, **Vukojević V**.
Isocratic RP–HPLC method for rutin determination in solid oral dosage forms
J. Pharmaceut. Biomed. 2007, **43**, 718-721
49. Schmitz G, Kolar-Anić Lj, Anić S, Grozdić T, **Vukojević V**.
Complex and chaotic oscillations in a model for the catalytic hydrogen peroxide decomposition under open reactor conditions
J. Phys. Chem. A, 2006, **110**, 10361-10368
50. Hugonin L, **Vukojević V**, Bakalkin G, Gräslund A.
Membrane leakage induced by dynorphins
FEBS Lett. 2006, **580**, 3201-3205.
51. Woods AS, Kaminski R, Wang Y, Oz1 M, Hauser KF, Goody R, Wang H-Y J, Zeitz P, Zeitz KP, Zolkowska D, Schepers R, Chang C-F, Shen H. Nold M. Danielson J, Gräslund A, **Vukojević V**, Bakalkin G, Basbaum A, Shippenberg T.
Novel decoy peptides scavenge dynorphin preventing ischemic brain injury and NMDA receptor-mediated neurotoxicity
J. Proteome Res. 2006, **5**, 1017-1023.

52. Marinova Z, **Vukojević V**, Surcheva S, Yakovleva T, Cebers G, Pasikova N, Usynin I, Hugonin L, Fang W, Hallberg M, Hirschberg D, Bergman T, Langel U, Hauser KF, Pramanik A, Aldrich JV, Gräslund A, Terenius L, Bakalkin G.
Translocation of dynorphin neuropeptides across the plasma membrane. A putative mechanism of signal transmission.
J. Biol. Chem. 2005, **280**, 26360-26370
53. Popović-Bijelić A, Bijelić G, Kolar-Anić Lj, **Vukojević V**.
Numerically simulated pH induced reactivation of catalytic activity of horseradish peroxidase
Ann. NY Acad. Sci. 2005, **1048**, 457-460.
54. Pejić N, Blagojević S, Anić S, **Vukojević V**, Kolar-Anić Lj.
Microquantitative determination of hesperidin by pulse perturbation of the oscillatory reaction system
Anal. Bioanal. Chem., 2005, **381**, 775-780.
55. Stanisavljev D, **Vukojević V**.
Investigation of the Influence of Heavy Water on Kinetic Pathways in the Bray-Liebhafsky Reaction
J. Phys. Chem. A, 2002, **106**, 5618-5625.
56. **Vukojević V**, Anić S, Kolar- Anić Lj.
Investigation of the Dynamic Behavior of the Bray-Liebhafsky Reaction in the CSTR. Properties of the System Examined by Pulsed Perturbations with I⁻
Phys. Chem. Chem. Phys., 2002, **4**, 1276-1283
57. **Vukojević V**, Anić S, Kolar-Anić Lj.
Investigation of the Dynamic Behavior of the Bray-Liebhafsky Reaction in the CSTR. Determination of Bifurcation Points
J. Phys. Chem. A, 2000, **104**, 10731-10739.
58. **Vukojević V**, Pejić N, Stanisavljev D, Anić S, Kolar-Anić Lj.
Determination of Cl⁻, Br⁻, I⁻, Mn²⁺, Malonic Acid and Quercetin by Perturbation of a Nonequilibrium Stationary State in the Bray-Liebhafsky Reaction
The Analyst, 1999, **124**, 147-153
59. Kuntić V, Malešev D, Radović Z, Kosanić M, Mioč U, **Vukojević V**.
Spectrophotometric Investigation of Uranil(II)-Rutin Complex in 70% Ethanol
J. Agric. Food Chem. 1998, **46**, 5139-5142.
60. Stanisavljev D, Begović N, **Vukojević V**.
The Influence of Heavy Water on the Bray-Liebhafsky Oscillating Reaction
J. Phys. Chem. A, 1998, **102**, 6887-6891
61. **Vukojević V**, Graae Sørensen P, Hynne F.
Predictive Value of a Model of the Briggs-Rauscher Reaction Fitted to Quenching Experiments
J. Phys. Chem. 1996, **100**, 17175-17185.

Pregledni rad:

62. **Vukojević V**, Pramanik A, Yakovleva T, Rigler R, Terenius L, Bakalkin G.
Study of Molecular Events in Cells by Fluorescence Correlation Spectroscopy
Cell. Mol. Life. Sci., 2005, **62**, 535-550.

1.2. Rad u istaknutom međunarodnom časopisu M(22) poena 5

8. Marino AM, Sofiadis A, Baryawno N, Johnsen JJ, Larsson C, **Vukojević V**, Ekström TJ. Enhanced effects by 4-phenylbutyrate in combination with RTK inhibitors on proliferation in brain tumor cell models. *Biochem Biophys Res Commun.* 2011 411:208-212.
9. Wilhelm K, Darinskas A, Noppe W, Duchardt E, Hun Mok K, **Vukojević V**, Schleucher J, Morozova-Roche L. Protein oligomerisation induced by oleic acid at the solid-liquid interface: equine lysozyme cytotoxic complexes. *FEBS J*, 2009, **276**, 3975-3989.
10. Kuntić V, Stanojević M, Holclajtner-Antunović I, Uskoković-Marković S, Mioč U, Todorović M, Jovanović T, **Vukojević V**. Synthesis, characterization and biological activity of amino acid derivatives of the heteropolytungstophosphate acid. *Monatsh. Chem.* 2006, **137**, 803-810.
11. Yakovleva T, Kolesnikova L, **Vukojević V**, Gileva I, Tan-No K, Austen M, Lüscher B, Ekström TJ, Terenius L, Bakalkin G. YY1 binding to a subset of p53 DNA-target sites regulates p53-dependent transcription. *Biochem. Biophys. Res. Commun.* 2004, **318**, 615-624.
12. **Vukojević V**, Yakovleva T, Terenius L, Pramanik A, Bakalkin G. Denaturation of dsDNA by p53: fluorescence correlation spectroscopy study. *Biochem. Biophys. Res. Commun.* 2004, **316**, 1150-1155.
13. Pejić N, Anić S, Kuntić V, **Vukojević V**, Kolar-Anić Lj. Kinetic Determination of Microquantities of Rutin by Perturbation of the Bray-Liebafsky Reaction in an Open System. *Microchim. Acta.* 2003, **143**, 261-267.
14. Kuntić V, Malešev D, Radović Z, **Vukojević V**. Spectrophotometric Investigation of the Complexing Reaction of Titanylloxalato Anion with Rutin in 50% Ethanol. *Monatsh. Chem.* 2000, **131**, 769-777.

1.3 Rad u međunarodnom časopisu M23, poena 3

11. **Vukojević V**, Gräslund A, Bakalkin G. Fluorescence imaging with single-molecule sensitivity and fluorescence correlation spectroscopy of cell-penetrating neuropeptides. *Methods Mol Biol.* 2011, 789:147-70.
12. Marković VM, Čupić Ž, **Vukojević V**, Kolar-Anić L. Predictive modeling of the hypothalamic-pituitary-adrenal (HPA) axis response to acute and chronic stress. *Endocr J.* 2011 in press PMID:21852742
13. Popović-Bijelić A, Bijelić G, Kolar-Anić Lj, **Vukojević V**. Temperature dependence of oxygen evolution through catalase-like activity of Horseradish Peroxidase. *Russ. J. Phys. Chem.* 2007, **81**, 1371-1373

14. Kuntić V, Pejić N, Mičić S, **Vukojević V**, Vujić Z, Malešev D.
Determination of quercetin in pharmaceutical formulations via its reaction with potassium-titanyloxalate. Determination of the stability constants of the quercetin-titanyloxalato complex
J. Serb. Chem. Soc. 2005, **70**, 753-763.
15. **Vukojević V**, Pejić N, Stanisavljev D, Anić S, Kolar-Anić Lj.
Microquantitative Determination of Quercetin by Perturbation of a Non-equilibrium Stationary State in the Bray-Liebhaufsky Reaction
Die Pharmazie, 2001, **56**, 897-898.
16. Anić S, Stanisavljev D, Čupić Ž, Radenković M, **Vukojević V**, Kolar-Anić Lj.
The Oscillatory Bray-Liebhaufsky Reaction as a Matrix for Analyzing Enzyme and Polymeric Catalysts for Hydrogen Peroxide
Sci. Sinter. 2001, **33**, 107-115.
17. Anić S, Stanisavljev D, Čupić Ž, Radenković M, **Vukojević V**, Kolar-Anić Lj.
Selforganisation Phenomena During Catalytic Decomposition of Hydrogen Peroxide
Sci. Sinter. 1998, **30**, 49-57.
18. Stanisavljev D, **Vukojević V**.
Thermochemical Effects Accompanying Oscillations in the Bray-Liebhaufsky Reaction
J. Serb. Chem. Soc. 1995, **60**, 1125-34.
19. Anić S, Veselinović D, **Vukojević V**, Radenković M.
Electrochemical Source of Alternating Current Based on an Oscillating Reaction
J. Serb. Chem. Soc. 1994, **59**, 457-61.
20. **Vukojević V**, Graae Sørensen P, Hynne F
Quenching Analysis of the Briggs-Rauscher Reaction
J. Phys. Chem. 1993, **97**, 4091-4100.
21. Anić S, **Vukojević V**, Radenković M, Kolar-Anić Lj
New Approach to the Study of the Peroxide Kinetic of the Briggs-Rauscher Reaction
J. Serb. Chem. Soc. 1989, **54**, 521-525.

1.4. Saopštenja sa medjunarodnog skupa štampano u celini M33, poena 1

1. D.Stanisavljev, Dj.Mišljenović, S.Anić, **V.Vukojević**
Primena kontinuuacije tehnike u ispitivanju modela mehanizma Bray-Liebhaufsky reakcije
in S. Ribnikar, S. Anić (Eds.), *Physical Chemistry '96*, DFHS, Belgrade, 1996, 141-142.
2. **V.Vukojević**, S.Anić, D.Stanisavljev, Lj. Kolar Anić
Comparative analysis of models of the Bray-Liebhaufsky reaction with experiments in CSTR
International Conference on Chemical Reactors, Novosibirsk, June 18-21, 1996, Abstracts-PartII 158-159
3. D. Stanisavljev, **V. Vukojević**, S. Anić, Lj. Kolar-Anić
Kinetic effects of D₂O in the Bray-Liebhaufsky reaction at different temperatures
in S. Ribnikar, S. Anić (Eds.), *Physical Chemistry '98*, DFHS, Belgrade, 1998, 186-188.

4. D. Stanisavljev, Z. Žujović, N. Begović, **V. Vukojević**
 ^1H NMR in monitoring the Bray-Liebhaafsky oscillating reaction
 in S. Ribnikar, S. Anić (Eds.), *Physical Chemistry '98*,
 DFHS, Belgrade, 1998, 189-191.
5. D. Stanisavljev, **V. Vukojević**, S. Anić
 Investigation of the influence of D_2O on kinetic pathways in the Bray-Liebhaafsky reaction
 in S. Ribnikar, S. Anić (Eds.), *Physical Chemistry '2000*, DFHS,
 Belgrade, 2000, 157-159.
6. **V. Vukojević**, A. Popović, Bijelić, D. Stanisavljev, Lj. Kolar-Anić
 Kinetic determination of horseradish peroxidase and catalase by perturbation of the
 Bray-Liebhaafsky oscillatory reaction
*Physical Chemistry 2004, Proceedings of the 7th International Conference on
 Fundamental and Applied Aspects of Physical chemistry, Society of Physical Chemists
 of Serbia, Belgrade, 2002, p. 239-241.*

Usmena izlaganja i predavanja po pozivu:

1. **Vukojević V.**
 Quantitative analysis with single-molecule sensitivity using fluorescence correlation
 Spectroscopy Physical Chemistry 2012 – 11th International Conference on
 Fundamental and Applied Aspects of Physical Chemistry, September 24-28, Belgrade,
 Serbia
2. **Vukojević V.**
 Quantitative study of transcription factor binding kinetics in living cells. Implication
 for homeotic genes regulation
 Regional Biophysics Conference 2012, 3-7 September, Kladovo-Belgrade, Serbia
3. **Vukojević V.**
 Opioid receptor dynamics and organization in the plasma membrane. Live cell study
 by functional Fluorescence Microscopy Imaging (fFMI)
 10th Annual G Protein-Coupled Receptors in Drug Discovery 2012, 20-21 March,
 Berlin, Germany
4. **Vukojević V.**
 Functional Fluorescence Microscopy Imaging (fFMI) in Biomedical Research
 International Symposium on Photonic Bioimaging. Satellite Symposium of
 Worldsleap 2011 on Human Circadian Clock, 21-23 October, 2011, Sapporo, Japan
5. **Vukojević V.**
 Fluorescence Correlation Spectroscopy – Quantitative Analysis with Single-molecule
 sensitivity
 EUROanalysis 16, European Conference on Analytical Chemistry, Challenges in
 Modern Analytical Chemistry, September 11-15, 2011, Belgrade, Serbia
6. **Vukojević V.**
 Quantitative study of molecular interactions in live cells by functional Fluorescence
 Microscopy Imaging (fFMI)
 BIT Life Sciences 4th Annual Protein and Peptide Conference (PepCon-2011),
 March 23-25, 2011, Beijing, China.

7. **Vukojević V**, Papadopoulos DK, Terenius L, Gehring W, Rigler R
Bioimaging of gene regulation by transcription factors
The 13th Workshop on Fluorescence Correlation Spectroscopy and Related Methods,
Oct 25-27, 2010, Singapore
8. **Vukojević V.**
Molecular mechanisms underlying opioid receptor function
Neuro-Talk 2010, June 25-28, 2010, Singapore Expo, Singapore
9. **Vukojević V.**
Gene regulation by transcription factors. Quantitative live cell study by fluorescence
imaging and correlation spectroscopy
NorMIC Users Meeting on Fluorescence Correlation Spectroscopy and Related
Methods, March 10-12, 2010, Jena, Germany
10. **Vukojević V**, Papadopoulos DK, Terenius L, Gehring WJ, Rigler R
Functional synthetic Hox genes: Imaging the activity and quantifying transcription
factor-DNA interactions in live cells
The 12th Workshop on Fluorescence Correlation Spectroscopy and Related Methods,
Oct 12-16, 2009, Cargese, Corsica, France
11. **Vukojević V.**
Fluorescence Correlation Spectroscopy (FCS). Quantitative study of molecular
interactions in live cells
1st Scandinavian Symposium “Molecular Mechanisms of Amyloid Formation and
Causes of Amyloid Degenerative Diseases”, Sep 30-Oct 2, 2009, Hemavan, Sweden
12. **Vukojević, V.**
Functional Fluorescence Microscopy Imaging (fFMI) of Transcription Factor
Dynamics in Live Cells
High Content Analysis East, Cambridge Healthtech Institute, Boston, Massachusetts,
USA, September 21-23, 2009
13. **Vukojević V**, Ming Y, D’Addario C, Johansson B, Rigler R, Terenius L.
Quantitative study of molecular interactions and mobility in live cells by Fluorescence
Correlation Spectroscopy/Confocal Laser Scanning Microscopy
9th International Conference on Fundamental and Applied Aspects of Physical
Chemistry “Physical Chemistry 2004”; Belgrade, Serbia, Proceedings (Volume 1),
(2008) 334-342
14. **Vukojević, V.;** Yakovleva, T.; Terenius, L.; Pramanik, A.; Bakalkin, G.
Denaturation of dsDNA by p53 studied by Fluorescence Correlation Spectroscopy
7th International Conference on Fundamental and Applied Aspects of Physical
Chemistry “Physical Chemistry 2004”; Belgrade, Serbia, Proceedings (Volume 1),
(2004) 331-337

1.6. Monografska studija/poglavlje u knjizi M12 ili rad u tematskom zborniku međunarodnog značaja. M14, poena 4

5. **Vukojević V**, Yakovleva T, Bakalkin G.
Modes of p53 interactions with DNA in the chromatin context
The p53 pathway, A. Ayed and T. Hupp (Eds), Publisher: Landes Biosciences, 2010, pp127-141, ISBN 978-1-4419-8230-8
<http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?CMD=search&DB=Books>
6. **Vukojević V**, Ming Y, Terenius L.
Molecular mechanisms underlying opioid receptor function
Methods for the Discovery and Characterization of G protein-coupled receptors, Editor Craig W. Stevens, Springer Protocols, Humana Press, 2011, pp359-377
ISBN 978-1-61779-178-9
7. **Vukojević V**, Ming Y, Terenius L.
Opioid receptors
Encyclopedia of Signaling Molecules, Editor Sangdun Choi, Springer, 2012, pp1304-1312
ISBN 978-1-4419-0460-7, ISBN 978-1-4419-0461-4 (eBook)
8. **Vukojević V**, Morozova-Roche LA
Structural Origin of ELOA Toxicity – Implication for HAMLET-Type Protein Complexes with Oleic Acid
Lipoproteins - Role in Health and Diseases, S. Frank and G. Kostner (Eds), InTech, 2012, pp 663-674.
ISBN 978-953-51-0773-6, DOI: 10.5772/2931 663-674
<http://www.intechopen.com/books/lipoproteins-role-in-health-and-diseases/structural-origin-of-eloa-toxicity-implication-for-hamlet-type-protein-complexes-with-oleic-acid>

1.7. Nacionalne monografije, tematski zbornici M40 poglavlje u knjizi, ili rad u tematskom zborniku. M45, poena 1.5

1. S. Anić, Lj. Kolar-Anić, **V. Vukojević**, Ž. Čupić, D. Stanisavljev, M. Radenković
BREJ-LIEBHAFSKI OSCILATORNA REAKCIJA
“Profesoru Draganu Veselinoviću” Društvo fizikohemičara Srbije i Fakultet za fizičku hemiju, Editori: S. Anić, D. Marković, Beograd 2001, str175-192

F. Drugi vidovi angažovanja u naučnoistraživačkom radu

Učešće na naučnim projektima

Domaći projekti (osnovni)

Do 1996 projekat Ministarstva za nauku Republike Srbije: “Spektrohemija fizičko-hemijskih procesa i stanja, dinamika sistema”. Rukovodilac Kiro Zmbov, Vinča

1996-2000 projekat Ministarstva za nauku Republike Srbije: Dinamika, stabilnost i samoorganizacija neravnotežnih sistema. Rukovodilac dr Ljiljana Kolar-Anić

2000-2005 projekat ministarstva br 1448: Fizička hemija dinamičkih stanja i struktura neravnotežnih sistema-samoorganizacija multistabilnost i oscilatornost. Rukovodilac dr Ljiljana Kolar-Anić

Od 2005-2010 projekat Ministarstva za nauku i zaštitu životne sredine br. 142025: Fizička hemija dinamičkih stanja i struktura neravnotežnih sistema-od monotone do oscilatorne evolucije i haosa. Rukovodilac dr Ljiljana Kolar-Anić

Od 2011 projekat Ministarstva za nauku i tehnološki razvoj br. 172015: Dinamika nelinearnih fizičkohemijskih i biohemijskih sistema sa modeliranjem i predviđanjem njihovih ponašanja pod neravnotežnim uslovima, Rukovodilac dr Ljiljana Kolar-Anić

Međunarodni projekti:

2004-2005 The Wenner-Gren Foundation

High resolution neurochemical analysis of dynorphins in substance dependence and chronic pain. Grantee, PI Lars Terenius, Karolinska Institutet, Stockholm, Sweden

2008-2010 The Swedish Research Council

CNS peptides, functional importance.

Coapplicant, PI Lars Terenius, Karolinska Institutet, Stockholm, Sweden

2006-2008 European Union Program

Cancerdegradome.

Researcher, PI Lars Terenius, Karolinska Institutet, Stockholm, Sweden

2009-2010 NIAAA (NIH, USA)

Alcohol/naltrexone, neuropeptide interaction with opioid receptor dynamics studie

Senior Researcher, PI Donna Gruol/Lars Terenius, Department of Neuropharmacology, The Scripps Research Institute, La Jolla, California, USA

2008-2010 The Swedish Brain Fond

A nanobiological study of the membrane effects of ethanol

Coapplicant, PI Lars Terenius, Karolinska Institutet, Stockholm, Sweden

2009-2010 Systembolagets råd för alkoholforskning (SRA)

Approaches to personalized treatment of alcohol addiction

Coapplicant, PI Lars Terenius, Karolinska Institutet, Stockholm, Sweden.

2010-2011 NIDA (NIH, USA)

An integrative structure/functional analysis of mu-opioid receptor variants

Senior Researcher, PI Donna Gruol/Lars Terenius, Department of Neuropharmacology, The Scripps Research Institute, La Jolla, California, USA

2013-2015 The Swedish Research Council, Sweden

Therapeutic targets for alcohol and amphetamine abuse

Coapplicant, PI Lars Terenius, Karolinska Institutet, Stockholm, Sweden.

2013-2017 The Knut and Alice Wallenberg Foundation, Sweden

Dynamic nanotechnology for the study of cells and biosurfaces

Principal Investigator, Consortium Director David Haviland

G. Ostale Aktivnosti

Učešće u organizacionim aktivnostima međunarodnih konferencija *Physical chemistry* 2000-2012 koje su održane u Beogradu.

G. Mišljenje referenata

Iz izloženog se vidi da kandidat, dr Vladana Vukojević, vanredni profesor Karolinska Instituta ispunjava sve uslove Zakona o visokom obrazovanju (član 66) i Statuta Fakulteta za fizičku hemiju, Univerziteta u Bogradu, (članovi 141-143), za izbor u zvanje *gostujući profesor*.

Dr Vladana Vukojević ima doktorat nauka, 1 objavljen udžbenik, 1 objavljen monografiju, 1 revijski rad u časopisu kategorije M21, 5 poglavlja u knjigama i ukupno 50 međunarodnih naučnih radova u časopisima sa SCI liste. Od toga 32 rada kategorije M21, 7 radova kategorije M22 i 11 radova kategorije M23. Pored toga, kandidat je izlagala na domaćim i međunarodnim naučnim skupovima više od 40 puta, od čega je 11 puta učestvovala kao predavač po pozivu, sekcijski ili plenarni predavač. Kandidat je rukovodilac jednog naučnog projekta (Švedska) i učestvovala je u više međunarodnih projekata (3) i nacionalnih projekata, kako u Srbiji (5) tako i u Švedskoj (8).

Posebno treba naglasiti da je u periodu od 6. do 10. juna 2011. godine pod pokroviteljstvom programa „Brain Gain Plus“, World University Service (WUS) Austria, držala na Fakultetu za fizičku hemiju ciklus predavanja „Funkcionalna fluorescentna mikroskopija u biomedicinskim istraživanjima“, gde su slušaoci bili iz raznih institucija (Fakultet za fizičku hemiju, Institut za fiziku, Farmaceutski fakultet, Medicinski fakultet i Biološki fakultet). Kao i da je tokom 2011/12 i 2012/13 školske godine na Fakultetu za fizičku hemiju učestvovala u izvođenju nastave iz predmeta Nove fizičko-hemijske metode na poslediplomskim studijama.

Polazeći od analize celokupne nastavne i naučnoistraživačke aktivnosti dr Vladane Vukojević, obima i kvaliteta njenog rada, a posebno njenog naučnog rada iz oblasti deficitarnih na Fakultetu za fizičku hemiju te njenog angažovanja da ih prenese studentima i kolegama u Srbiji, predlažemo *Izbornom veću* Fakulteta za fizičku hemiju, Univerziteta u Beogradu da je izabere u zvanje *gostujući profesor*.

U Beogradu,
04. 02. 2013.

KOMISIJA REFERENATA

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