PERSONAL INFORMATION

Violeta Marković

Kavadar, 35260 Rekovac, Serbia

++381 35 8813411 ++381 63 8389243

markovicvioleta@kg.ac.rs

Sex Female | Date of birth 02/07/1985 | Nationality Serbian

STUDIES APPLIED FOR

The Erasmus Mundus Scholarship under Green-Tech-WB project

WORK EXPERIENCE

July 2013 - present

Research Associate

Faculty of Science, University of Kragujevac, Serbia; www.pmf.kg.ac.rs

- Teaching: organic synthesis, organic chemistry, industrial chemistry, environmental chemistry
- Researching: synthesis, structural characterization and mechanistic studies of new heterocyclic, anthraquinone and adamantyl derivatives applying different spectroscopic techniques and DFT studies. Investigation of cytotoxic activity of newly synthesized compounds against human cancer cells. Total synthesis of natural compounds, as well as their corresponding synthetic analogues further used for the biological essays.

October 2008 - July 2013

Research Assistant

Faculty of Science, University of Kragujevac, Serbia; www.pmf.kg.ac.rs

EDUCATION

2013 - 2014

Postdoctoral study

Sapienza, University of Rome, Department of Chemistry and Technology of Drug, Faculty of Pharmacy, supervised by professor Dr. Bruno Botta

2011 - 2012

PhD exchange program

Sapienza, University of Rome, Department of Chemistry and Technology of Drug, Faculty of Pharmacy, supervised by professor Dr. Bruno Botta

2008 - 2012

PhD in Chemistry – Organic chemistry

Doctoral studies at Faculty of Science, University of Kragujevac, Serbia

- Thesis title: “Synthesis, spectral characterization and mechanistic studies of new pyrazole and pyrazolone derivatives”, supervised by professor Dr. Milan D. Joksović

2004 - 2008

BSc degree in Chemistry

Studies of chemistry at Faculty of Science, University of Kragujevac, Serbia

2000 - 2004

First Grammar School of Kragujevac, Serbia

PERSONAL SKILLS

Mother tongue(s) Serbian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Communicational / organisational skills
- good communication and organisation skills gained through the experience as teaching assistant and researcher
- initiative, persistent, communicative, willing to teamwork, competitive, friendly sociable, responsible, reliable, well-organized

Job-related skills
- good command of general synthetic techniques (including microwave synthesis, preparative chromatography)
- good command of spectroscopic techniques (IR, NMR)

Computer skills
- MS Office
- ChemBioOffice
- SciFinder

Driving licence
- B

ADDITIONAL INFORMATION

Projects

National research projects:
- New Electrochemical and Chemical Methods in the Synthesis of Organic Molecules (12/2008 – 12/2010);
- Synthesis, modelling, physicochemical and biological properties of some organic compounds and corresponding metal complexes (01/2011 -);

Referees

Professor Dr. Milan D. Joksović
Associate Professor at
Department of Chemistry, Organic Chemistry
Faculty of Science
University of Kragujevac
Radoja Domanovića 12
34000 Kragujevac, Serbia
Phone: +(381) 34 300 251
Fax: +(381) 34 335 040
E-mail: mjoksovic@kg.ac.rs

Professor Dr. Bruno Botta
Full Professor at
Dipartimento di Chimica e Tecnologie del Farmaco
Sapienza, Università di Roma
P.le Aldo Moro, 5
00185 Roma (Italy)
Phone: +3906-4991-2781
Fax: +3906-4991-2780
E-mail: bruno.botta@uniroma1.it

Awards

Award from the Serbian Chemical Society for extraordinary success during the studies of chemistry.

ANNEXES

- Publications;
- International Conferences;
- National Conferences.

Publications

1. I. Gutman, B. Furtula, B. Glišić, **V. Marković**, A. Vesel, Estrada index of acyclic molecules, *Indian Journal of Chemistry. Section A: Inorganic, physical, theoretical and analytical chemistry*, **46** (2007) 723-728.
2. I. Gutman, B. Furtula, **V. Marković**, B. Glišić, Alkanes with greatest Estrada index, *Zeitschrift fur naturforschung section A: Journal of physical sciences*, **62** (2007), 495-498.
3. M. D. Joksović, **V. Marković**, Z. D. Juranić, T. Stanojković, Lj. S. Jovanović, I. S. Damljanović, K. Meszaros Szecsenyi, N. Todorović, S. Trifunović, R. D. Vukicević, Synthesis, characterization and antitumor activity of novel N-substituted α-amino acids containing ferrocenyl pyrazole-moiety, *Journal of Organometallic Chemistry,* **694**, (2009), 3935-3942.
4. M. D. Joksović, G. Bogdanović, V. Kojić, K. Meszaros Szecsenyi, V. M. Leovac, D. Jakimov, S. Trifunović, **V. Marković**, Lj. Joksović, Synthesis, cytotoxic activity, and thermal studies of novel N-[(1,3-Diphenylpyrazol-4-yl)methyl] α-amino acids, *Journal of Heterocyclic Chemistry* **47** (2010) 850-856.
5. S. Marković, M. D. Joksović, P. Bombicz, V. M. Leovac, **V. Marković**, Lj. Joksović, Theoretical study on structural and mechanistic aspects of synthesis of a 3-aminopyrazole derivative, *Tetrahedron*, **66**, (2010), 6205-6211.
6. **V. Marković**, S. Erić, Z. D. Juranić, T. Stanojković, Lj. Joksović, B. Ranković, M. Kosanić, M. D. Joksović, Synthesis, antitumor activity and QSAR studies of some 4-aminomethylidene derivatives of edaravone, *Bioorganic Chemistry,* **39**, (2011), 18-27.
7. **V. Marković**, S. Erić, T. Stanojković, N. Gligorijević, S. Aranđelović, N. Todorović, S. Trifunović, N. Manojlović, R. Jelić, M. D. Joksović, Antiproliferative activity and QSAR studies of a series of new 4-aminomethylidene derivatives of some pyrazol-5-ones, *Bioorganic & Medicinal Chemistry Letters*, **21**, (2011), 4416-4421.
8. V. M. Leovac, G. A. Bogdanović, Lj. S. Jovanović, Lj. Joksović, **V. Marković**, M. D. Joksović, S. Misirlić Denčić, A. Isaković, I. Marković, F. W. Heinemann, S. Trifunović, I. Đalović, Synthesis, characterization and antitumor activity of polymeric copper(II) complexes with thiosemicarbazones of 3-methyl-5-oxo-1-phenyl-3-pyrazolin-4-carboxaldehyde and 5-oxo-3-phenyl-3-pyrazolin-4-carboxaldehyde, *Journal of Inorganic Biochemistry*, **105**(**11**), (2011), 1413-1421.
9. **V. Marković**, S. Markovic, A. Janicijevic, M. V. Rodic, V. M. Leovac, N. Todorovic, S. Trifunovic, M. D. Joksovic, Mechanistic investigation and DFT calculation of the new reaction between S-methylisothiosemicarbazide and methyl acetoacetate, *Structural Chemistry*, **24**, (2013), 2127-2136.
10. **V. Marković**, A. Janićijević, T. Stanojković, B. Kolundžija, D. Sladić, M. Vujčić, B. Janović, Lj. Joksović, P. T. Djurdjević, N. Todorović, S. Trifunović, M. D. Joksović, Synthesis, cytotoxic activity and DNA-interaction studies of novel anthraquinone–thiosemicarbazones with tautomerizable methylene group, *European Journal of Medicinal Chemistry*, **64**, (2013), 228-238.
11. S. Marković, **V. Marković**, M. D. Joksović, N. Todorović, Lj. Joksović, V. Divjaković, S. Trifunović, Debromination of *endo*-(+)-3-bromocamphor with primary amines*, Journal of the Brazilian Chemical Society*, **24**(**7**), (2013), 1099-1108.
12. **V. Marković**, M. D. Joksović, S. Marković, I. Jakovljević, Influence of anthraquinone scaffold on *E*/*Z* isomer distribution of two thiosemicarbazone derivatives. 2D NMR and DFT studies, *Journal of Molecular Structure*, 1058, (2014), 291-297.
13. B. Kolundžija, **V. Marković**, T. Stanojković, Lj. Joksović, I. Matić, N. Todorović, M. Nikolić, M. D. Joksović, Novel anthraquinone based chalcone analogues containing an imine fragment: Synthesis, cytotoxicity and anti-angiogenic activity, *Bioorganic & Medicinal Chemistry Letters*, **24**(**1**), (2014), 65-71.
14. **V. Marković**, N. Debeljak, T. Stanojković, B. Kolundžija, D. Sladić, M. Vujčić, B. Janović, N. Tanić, M. Perović, V. Tešić, J. Antić, M. D. Joksović, Anthraquinone-chalcone hybrids: Synthesis, preliminary antiproliferative evaluation and DNA-interaction studies, *European Journal of Medicinal Chemistry*, **89**, (2015), 401-410.
15. V.M. Leovac, M.V. Rodić, Lj.S. Jovanović, M.D. Joksović, T.P. Stanojković, M.T. Vujčić, D.M. Sladić, **V. Marković**, Lj.S. Vojinovic-Ješić, Transition metal complexes with 1-adamantoyl hydrazones - cytotoxic copper(II) complexes of tri- and tetradentate pyridine chelators containing an adamantane ring system, *European Journal of Inorganic Chemistry*, **5**, (2015), 882-895.
16. **V. Marković**, M.D. Joksović, "On water" synthesis of N-unsubstituted pyrazoles: semicarbazide hydrochloride as an alternative to hydrazine for preparation of pyrazole-3-carboxylate derivatives and 3,5-disubstituted pyrazoles, Green Chemistry, **17**, (2015), 842-847.
17. M.V. Rodić, V.M. Leovac, Lj.S. Jovanović, V. Spasojević, M.D. Joksović, T. Stanojković, I.Z. Matić, Lj.S. Vojinović-Ješić, **V. Marković**, Synthesis, characterization, cytotoxicity and antiangiogenic activity of copper(II) complexes with 1-adamantoyl hydrazone bearing pyridine rings, *European Journal of Medicinal Chemistry*, **115**, (2016), 75-81.
18. C. Ingallina, I. D'Acquarica, G. Delle Monache, F. Ghirga, D. Quaglio, P. Ghirga, S. Berardozzi, **V. Markovic**, B. Botta, The Pictet-Spengler reaction still on stage, *Current Pharmaceutical Design,* **22**, (2016), 1808-1850.
19. N. Ivanovic, Lj. Jovanovic, Z. Markovic, **V. Markovic**, M. D. Joksovic, D. Milenkovic, P. T. Djurdjevic, A. Ciric, Lj. Joksovic, Potent 1,2,4-triazole-3-thione radical scavengers derived from phenolic acids: synthesis, electrochemistry, and theoretical study, *ChemistrySelect,* **1**, (2016), 3870 – 3878.
20. M. Z. Milošev, K. Jakovljević, M. D. Joksović, T. Stanojković, I. Z. Matić, M. Perović, V. Tešić, S. Kanazir, M. Mladenović, M. V. Rodić, V. M. Leovac, S. Trifunović, **V. Marković**, Mannich bases of 1,2,4-triazole-3-thione containing adamantane moiety: synthesis, preliminary anticancer evaluation, and molecular modeling studies, *Chemical Biology & Drug Design*, **89**, (2017), 943 – 952.

21. N. Mihailovic, **V. Marković**, I. Z. Matic, N. S. Stanisavljevic, Z. S. Jovanovic, S. Trifunovic, Lj. Joksovic, Synthesis and antioxidant activity of 1,3,4-oxadiazoles and their diacylhydrazine precursors derived from phenolic acids, *RSC Advances*, **7**, (2017), 8550-8560.
22. K. Jakovljević, I. Z. Matić, T. Stanojković, A. Krivokuća, **V. Marković**, M. D. Joksović, N. Mihailović, M. Nićiforović, Lj. Joksović, Synthesis, antioxidant and antiproliferative activities of 1,3,4-thiadiazoles derived from phenolic acids, *Bioorganic & Medicinal Chemistry Letters*, **27**, (2017), 3709-3715.

International Conferences

1. **V. Marković**, S. Erić, T. Stanojković, M. Joksović, Synthesis, antitumor activity and QSAR studies of 4-aminomethylidene derivatives of some pyrazol-5-ones, ***Preclinical testing of active substances and cancer research, Kragujevac, Serbia, March 16-18, 2011, Book of Abstracts P1, p. 53.***
2. K. Jakovljević, **V. Marković**, M. D. Joksović, I. Z. Matić, T. Stanojković, Synthesis and biological activity of 1,3,4-thiadiazoles derived from phenolic acids, ***International Meeting on Medicinal and Bio(in)organic Chemistry, Vrnjačka Banja, Serbia, August 26-31, 2017, Book of Abstracts p. 18.***

National Conferences

1. **V. Marković**, M.D. Joksović, Synthesis of a novel anthrone derivative containing 6-azathiouracyl moiety, ***52nd Meeting of the Serbian Chemical Society, Novi Sad, Serbia, May 29 and 30, 2015, Book of Abstracts OH P 23 p. 137.***
2. K. Jakovljević, **V. R. Marković**, M. D. Joksović, T. Stanojković, Synthesis, characterization and cytotoxicity of novel anthraquinone amides, ***53rd Meeting of the Serbian Chemical Society, Kragujevac, Serbia, June 10-11, 2016, Book of Abstracts OH P10 p. 108.***
3. **V. R. Marković**, K. Jakovljević, M. D. Joksović, I. Matić, Synthesis and biological screening of novel triazole Mannich bases, ***53rd Meeting of the Serbian Chemical Society, Kragujevac, Serbia, June 10-11, 2016, Book of Abstracts OH O1 p. 94.***