



CURRICULUM VITAE

Prof. Dr. Milan Joksović

Family name (Surname): Joksović

First name: Milan

Date of birth: October 28, 1963

Country and place of birth: Yugoslavia, Pljevlja

Marital status: Married

Nationality: Serbian

Home address: Branka Radičevića 12/13
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EDUCATION

Primary School: Pljevlja, Yugoslavia
1970 – 1978

Secondary School: Pljevlja, Yugoslavia
1978 – 1982

BSc in Chemistry: Department of Chemistry
Faculty of Science
University of Kragujevac

Kragujevac, Yugoslavia
1983 - 1987

PhD in Chemistry:
(*Supervisor: Professor S. Konstantinović*)

Department of Chemistry
Faculty of Science
University of Kragujevac
Kragujevac, Serbia
2001, Yugoslavia

PhD thesis title:

Enantioselective reduction of ketones

Postdoctoral study:

Faculty of Chemical Engineering,
University of Technology and
Economics, Budapest (2008)

Number of publications:

52

EMPLOYMENT:

Assistant:

Department of Chemistry
Faculty of Science
University of Kragujevac
Kragujevac, Serbia
1989 – 2008

Associate Professor:

Department of Chemistry
Faculty of Science
University of Kragujevac
Kragujevac, Serbia
2008 – 2018

Full Professor:

Department of Chemistry
Faculty of Science
University of Kragujevac
Kragujevac, Serbia
2018 – present

WORK/RESEARCH EXPERIENCE

Synthesis and structural characterization of new pyrazole, pyrazolone, anthraquinone derivatives, quinoline-4-carboxylic acids and pyrrolo[3,4,c]quinoline-1,3-diones, applying different spectroscopic techniques. Investigation of cytotoxic activity of newly synthesized compounds against human cancer cells as well as pharmacokinetic and toxicological investigation of novel inhibitors of dihydroorotate dehydrogenase.

TECHICAL/RESEARCH SKILLS

Good background in organic, bioorganic chemistry and medicinal chemistry, organic synthesis, NMR and IR spectroscopy, UV-Vis spectrophotometry, chromatography techniques.

LANGUAGES

(a) *Mother tongue:* Serbian

(b) *Other languages:*

Understanding				Speaking		Writing	
Listening		Reading					
1.	English	1.	English	1.	English	1.	English
2.	Italian	2.	Italian	2.	Italian	2.	Italian

COMPUTER SKILLS

Skilled in the use of:

1. The Internet in search and use of pertinent information;
2. Microsoft Office 2007, 2010 (Word, Excel, PowerPoint);
3. Chem Office;

LIST OF SCIENTIFIC PUBLICATIONS

1. Marina G. Dimitrijević, Cornelia Roschger, Kevin Lang, Andreas Zierer, Milica G. Paunović, Ana D. Obradović, Miloš M. Matić, Marijana Pocrnić, Nives Galić, Andrija Ćirić, Milan D. Joksović, **Discovery of a new class of potent pyrrolo[3,4-c]quinoline-1,3-diones based inhibitors of human dihydroorotate dehydrogenase: Synthesis, pharmacological and toxicological evaluation**, *Bioorganic Chemistry*, 147 (2024) 107359.
2. Marina G. Dimitrijević, Goran A. Bogdanović, Snežana Trifunović, Milan D. Joksović, **Rapid access to pyrrolo[3,4-c]quinoline-1,3-diones: An improved synthetic protocol using a precursor prepared by Pfitzinger reaction**, *Tetrahedron*, 132, (2023), 133236.
3. Milena M. Petrović, Cornelia Roschger, Kevin Lang, Andreas Zierer, Milan Mladenović, Snežana Trifunović, Boris Mandić, Milan D. Joksović, **Synthesis and biological evaluation of new quinoline-4-carboxylic acid-chalcone hybrids as dihydroorotate dehydrogenase inhibitors**, *Archiv der Pharmazie*, 356, (2023), 2200374.
4. Milena M. Petrović, Cornelia Roschger, Sidrah Chaudary, Andreas Zierer, Milan Mladenović, Violeta Marković, Snežana Trifunović, Milan D. Joksović, **Low cytotoxic quinoline-4-carboxylic acids derived from vanillin precursors as potential human dihydroorotate dehydrogenase inhibitors**, *Bioorganic and Medicinal Chemistry Letters* 46, (2021), 128194.
5. Milena M. Petrović, Cornelia Roschger, Sidrah Chaudary, Andreas Zierer, Milan Mladenović, Katarina Jakovljević, Violeta Marković, Bruno Botta, Milan D. Joksović, **Potent human dihydroorotate dehydrogenase inhibitory activity of new quinoline-4-carboxylic acids derived from phenolic aldehydes: Synthesis, cytotoxicity, lipophilicity and molecular docking studies**, *Bioorganic Chemistry*, 105, (2020), 104373.
6. Jelena Đorović, Dejan Milenković, Ljubinka Joksović, Milan Joksović, Zoran Marković, **Study of Influence of Free Radical Species on Antioxidant Activity of Selected 1,2,4-Triazole-3-thiones**, *ChemistrySelect*, 4, (2019), 7476-7485.
7. Katarina Jakovljević, Milan D. Joksović, Bruno Botta, Ljiljana S. Jovanović, Edina Avdović, Zoran Marković, Vladimir Mihailović, Marijana Andrić, Snežana Trifunović, Violeta Marković, **Novel 1,3,4-thiadiazole conjugates derived from protocatechuic acid: Synthesis, antioxidant activity, and computational and electrochemical studies**, *Comptes Rendus Chimie*, 22, (2019), 585-598.
8. Tatjana Stanokjović, Violeta Marković, Ivana Z. Matić, Milan P. Mladenović, Nina Petrović, Ana Krivokuća, Miloš Petković, Milan D. Joksović, **Highly selective anthraquinone-chalcone hybrids as potential antileukemia agents**, *Bioorganic and Medicinal Chemistry Letters*, 28, (2018), 2593-2598.

9. Katarina Jakovljević, Milan D. Joksović, Ivana Z. Matić, Nina Petrović, Tatjana Stanojković, Dušan Sladić, Miroslava Vujčić, Barbara Janović, Ljubinka Joksović, Snežana Trifunović and Violeta Marković, **Novel 1,3,4-thiadiazole–chalcone hybrids containing catechol moiety: synthesis, antioxidant activity, cytotoxicity and DNA interaction studies**, *MedChemComm*, 9, (2018), 1679-1697.
10. Katarina Jakovljević, Ivana Z. Matić, Tatjana Stanojković, Ana Krivokuća, Violeta Marković, Milan D. Joksović, Nevena Mihailović, Marija Nićiforović, Ljubinka Joksović, **Synthesis, antioxidant and antiproliferative activities of 1,3,4-thiadiazoles derived from phenolic acids**, *Bioorganic & Medicinal Chemistry Letters*, 27, (2017), 3709-3715.
11. Milorad Z. Milošev, Katarina Jakovljević, Milan D. Joksović, Tatjana Stanojković, Ivana Z. Matić, Milka Perović, Vesna Tešić, Selma Kanazir, Milan Mladenović, Marko V. Rodić, Vukadin M. Leovac, Snežana Trifunović, Violeta Marković, **Mannich bases of 1,2,4-triazole-3-thione containing adamantane moiety: Synthesis, preliminary anticancer evaluation, and molecular modeling studies**, *Chemical Biology and Drug Design*, 89, (2017), 943-952.
12. Marko V. Rodić, Vukadin M. Leovac, Ljiljana S. Jovanović, Vojislav Spasojević, Milan D. Joksović, Tatjana Stanojković, Ivana Z. Matić, Ljiljana S. Vojinović-Ješić, Violeta Marković, **Synthesis, Characterization, cytotoxicity and antiangiogenic activity of copper(II) complexes with 1-adamantoyl hydrazone bearing pyridine ring**, *European Journal of Medicinal Chemistry*, 115, (2016), 75-81.
13. Nevena Ivanović, Ljiljana Jovanović, Zoran Marković, Violeta Marković, Milan D. Joksović, Dejan Milenković, Predrag T. Djurdjević, Andrija Ćirić, Ljubinka Joksović, **Potent 1,2,4-triazole-3-thione radical scavengers derived from phenolic acids: Synthesis, electrochemistry, and theoretical study**, *ChemistrySelect* 1, (2016), 3870-3878.
14. Vukadin M. Leovac, Marko V. Rodić, Ljiljana S. Jovanović, Milan D. Joksović, Tatjana Stanojković, Miroslava Vujčić, Dušan Sladić, Violeta Marković, Ljiljana S. Vojinović-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*, (2015), 882-895.
15. Violeta Marković, Milan 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.
16. Violeta Marković, Nevena Debeljak, Tatjana Stanojković, Branka Kolundžija, Dušan Sladić, Miroslava Vujčić, Barbara Janović, Nikola Tanić, Milka Perović, Vesna Tešić, Jadranka Antić, Milan D. Joksović, **Anthraquinone-chalcone hybrids: Synthesis, preliminary antiproliferative evaluation and DNA-interaction studies**, *European Journal of Medicinal Chemistry*, 89, (2015), 401-410.
17. Ljiljana S. Vojinović-Ješić, Mirjana M. Radanović, Marko V. Rodić, Ljiljana S. Jovanović, Valerija I. Češljević, Milan D. Joksović, **Syntheses, structures and spectral characterization of copper(II) and dioxidovanadium(V) complexes with salicylidene-aminoguanidine**, *Polyhedron*, 80, (2014), 90-96.

18. Violeta Marković, Milan D. Joksović, Svetlana Marković, Ivan 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.
19. Branka Kolundžija, Violeta Marković, Tatjana Stanojković, Ljubinka Joksović, Ivana Matić, Nina Todorović, Marijana Nikolić, Milan D. Joksović, **Novel anthraquinone based chalcone analogues containing an imine fragment: synthesis, cytotoxicity and antiangiogenic activity**, *Bioorganic & Medicinal Chemistry Letters*, 24, (2014), 65-71.
20. Svetlana Marković, Violeta Marković, Milan D. Joksović, Nina Todorović, Ljubinka Joksović, Vladimir Divjaković, Snežana Trifunović, **Debromination of endo-(+)-3-bromocamphor with primary amines**, *Journal of Brazilian Chemical Society*, 24, (2013), 1099-1108.
21. Violeta Marković, Ana Janićijević, Tatjana Stanojković, Branka Kolundžija, Dušan Sladić, Miroslava Vujčić, Barbara Janović, Ljubinka Joksović, Predrag T. Djurdjević, Nina Todorović, Snežana Trifunović, Milan 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.
22. Ljiljana Suvajdzic, Vukadin Leovac, Milan Joksović, Gordana Bogdanović, Vesna Kojić, Nemanja Vujić, Tatjana Mrdja, Branislava Kocić, **Antimicrobial activity of copper(II) complex with 1,2-bis [(1,3-diphenylpyrazol-4-yl)methyl] diaminoethane**, *Acta Scientiae Veterinariae*, 41, (2013), 1123.
23. Violeta Marković, Svetlana Marković, Ana Janićijević, Marko V. Rodić, Vukadin M. Leovac, Nina Todorović, Snežana Trifunović, Milan D. Joksović, **Mechanistic investigation and DFT calculation of the new reaction between S-methylisothiosemicarbazide and methyl acetoacetate**, *Structural Chemistry*, 24, (2013), 2127-2136.
24. Niko Radulović, Milan Dekić, Milan Joksović, Rastko Vukićević, **Chemotaxonomy of serbian Teucrium species inferred from essential oil chemical composition: the case of Teucrium scordium L. Ssp. Scordioides**, *Chemistry & Biodiversity*, 9, (2012), 106-122.
25. Vukadin M. Leovac, Goran A. Bogdanović, Ljiljana S. Jovanović, Ljubinka Joksović, Violeta Marković, Milan D. Joksović, Sonja Misirlić Dencić, Anđelka Isaković, Ivanka Marković, Frank W. Heinemann, Srećko Trifunović, Ivica 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, (2011), 1413-1421.
26. Violeta Marković, Slavica Erić, Tatjana Stanojković, Nevenka Gligorijević, Sandra Arandelović, Nina Todorović, Snežana Trifunović, Nedeljko Manojlović, Ratimir Jelić, Milan 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.
27. Violeta Marković, Slavica Erić, Zorica D. Juranić, Tatjana Stanojković, Ljubinka Joksović, Branislav Ranković, Marijana Kosanić, Milan D. Joksović, **Synthesis, antitumor activity and QSAR studies of some 4-aminomethylidene derivatives of edaravone**, *Bioorganic Chemistry*, 39, (2011), 18-27.

28. Berta Hollo, Vukadin M. Leovac, Petra Bombicz, Attila Kovacs, Ljiljana S. Jovanović, Gordana Bogdanović, Vesna Kojić, Vladimir Divjaković, Milan D. Joksović, Katalin Meszaros Szecsenyi, **Synthesis, Structural, DFT, and Cytotoxicity Studies of CuII and NiII Complexes with 3-Aminopyrazole Derivatives**, *Australian Journal of Chemistry*, 63, (2010), 1557-1564.
29. Vukadin M. Leovac, Vladimir Divjaković, Milan D. Joksović, Ljiljana S. Jovanović, Ljiljana Vojinović-Ješić, Valerija I. S. Češljević, Milena Mlinar, **Transition metal complexes with thiosemicarbazide-based ligands. Part 57. Synthesis, spectral and structural characterization of dioxovanadium(V) and dioxomolybdenum(VI) complexes with pyridoxal S-methylisothiosemicarbazone**, *Journal of the Serbian Chemical Society*, 75, (2010), 1063-1074.
30. Milan D. Joksović, Gordana Bogdanović, Vesna Kojić, Katalin Meszaros Szecsenyi, Vukadin M. Leovac, Dimitar Jakimov, Snežana Trifunović, Violeta Marković, Ljubinka 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.
31. Svetlana Marković, Milan D. Joksović, Petra Bombicz, Vukadin M. Leovac, Violeta Marković, Ljubinka Joksović, **Theoretical study on structural and mechanistic aspects of synthesis of a 3-aminopyrazole derivative**, *Tetrahedron*, 66, (2010), 6205-6211.
32. Ljiljana S. Vojinović-Ješić, Valerija I. Češljević, Goran A. Bogdanović, Vukadin M. Leovac, Katalin Meszaros Szecsenyi, Vladimir Divjaković, Milan D. Joksović, **Transition metal complexes with Girard reagent-based ligands. Part V. Synthesis, characterization and crystal structure of pentagonal-bipyramidal manganese(II) complex with 2,6-diacetylpyridine bis(Girard-T hydrazone)**, *Inorganic Chemistry Communications*, 13, (2010), 1085-1088.
33. Zoran Ratković, Zorica D. Juranić, Tatjana Stanojković, Dragan Manojlović, Rastko D. Vukićević, Niko Radulović, Milan D. Joksović, **Synthesis, characterization, electrochemical studies and antitumor activity of some new chalcone analogues containing ferrocenyl pyrazole moiety**, *Bioorganic Chemistry*, 38, (2010), 26-32.
34. Milan D. Joksović, Violeta Marković, Zorica D. Juranić, Tatjana Stanojković, Ljiljana S. Jovanović, Ivan Damljanović, S. Katalin Meszaros Szecsenyi, Nina Todorović, Snežana Trifunović, Rastko D. Vukićević, **Synthesis, characterization and antitumor activity of novel N-substituted α -amino acids containing ferrocenyl pyrazole-moiety**, *Journal of Organometallic Chemistry*, 694, (2009), 3935-3942.
35. Ivan Damljanović, Klaus Wurst, Gerhard Laus, Milan Joksović, Zoran Ratković, Mirjana Vukićević, Rastko D. Vukićević, **Crystal structure of 3-ferrocenyl-1-phenylpyrazole-4-carbaldehyde 3-pyridinylmethylimine, Fe(C₅H₅)(C₂₁H₁₇N₄)**, *Zeitschrift fuer Kristallographie - New Crystal Structures*, 224, (2009), 313-314.
36. Ivan Damljanović, Marija Čolović, Mirjana Vukićević, Dragan Manojlović, Niko Radulović, Klaus Wurst, Gerhard Laus, Zoran Ratković, Milan Joksović, Rastko D. Vukićević, **Synthesis, spectral characterization and electrochemical properties of 1H-3-(o-, m- and p-ferrocenylphenyl)-1-phenylpyrazole-4-carboxaldehydes**, *Journal of Organometallic Chemistry*, 694, (2009), 1575-1580.
37. Ivan Damljanović, Mirjana Niko Vukićević, Radulović, Radosav Palić, Ernst Ellmerer, Zoran Ratković, Milan D. Joksović, Rastko D. Vukićević, **Synthesis and antimicrobial activity of some new pyrazole**

- derivatives containing a ferrocene unit**, *Bioorganic & Medicinal Chemistry Letters*, 19, (2009), 1093-1096.
38. Vukadin M. Leovac, Svetlana Marković, Vladimir Divjaković, Katalin Meszaros Szecsenyi, Milan D. Joksović, Ivan Leban, **Structural and DFT studies on molecular structure of Ni(II) chloride complex with pyridoxal semicarbazone (PLSC). Unusual coordination mode of PLSC**, *Acta Chimica Slovenica*, 55, (2008), 850-860.
M22, IF₂₀₀₇ = 1.093
39. Vukadin M. Leovac, Zoran D. Tomić, Attila Kovacs, Milan D. Joksović, Ljiljana S. Jovanović, Katalin Meszaros Szecsenyi, **Cobalt(II) complexes with disubstituted 3-aminopyrazole derivative: Mononuclear Co(II) complex with in situ prepared formamidine ligand**, *Journal of Organometallic Chemistry*, 693, (2008), 77-86.
40. Vukadin M. Leovac, Zoran D. Tomić, Katalin Meszaros Szecsenyi, Ljiljana S. Jovanović, Milan D. Joksović, **Transition metal complexes with pyrazole based ligands. Part 27. Structural and thermal characterization of cobalt(II) halide and pseudohalide complexes with 4-acetyl-3-amino-5-methylpyrazole**, *Journal of the Serbian Chemical Society* 72, (2007), 1281-1293.
41. Vukadin M. Leovac, Petra Bombicz, Katalin Meszaros Szecsenyi, Milan D. Joksović, **Copper(II) Complexes with Reduced Schiff Base: Synthesis, Spectroscopic, Thermal, X-Ray, and Cytotoxic Studies of Novel Copper(II) Complexes with an Arylpyrazole Ligand**, *Australian Journal of Chemistry* 60, (2007), 615-620.
42. Vukadin M. Leovac, Sladana B. Novaković, Goran A. Bogdanović, Milan D. Joksović, Katalin Meszaros Szecsenyi, Valerija I. Cesljevic, **Transition metal complexes with thiosemicarbazide-based ligands. Part LVI: Nickel(II) complex with 1,3-diphenylpyrazole-4-carboxaldehyde thiosemicarbazone and unusually deformed coordination geometry**. *Polyhedron* 26, (2007), 3783-3792.
M21, IF₂₀₀₅ = 1.957
43. Vukadin M. Leovac, Sladana B. Novaković, Goran A. Bogdanović, Milan D. Joksović, **Synthesis and reaction of Schiff base 4-(pyridin-3-ylmethylimino)-pent-2-en-2-ol with FeCl₃**. *Structural Chemistry* 18, (2007), 337-341.
44. Vukadin M. Leovac, Milan D. Joksović, Vladimir Divjaković, Ljiljana S. Jovanović, Žana Šaranović, Andrej Pevec, **Synthesis, spectroscopic and x-ray characterization of a copper(II) complex with the Schiff base derived from pyridoxal and aminoguanidine: NMR spectral studies of the ligand**, *Journal of Inorganic Biochemistry* 101, (2007), 1094-1097.
45. Milan Joksović, Zoran Ratković, Mirjana Vukićević, Rastko D. Vukčević, **Synthesis of 1H-3-ferrocenyl-1-phenyl-4-substituted pyrazoles**, *Synlett* (2006), (16), 2581-2584.
46. Verica V. Glodjović, Milan D. Joksović, Srećko R. Trifunović, **The geometrical isomers of oxalato and malonato-(ethylenediamine-N,N'-di-S,S-2-propionato)-chromate(III) complexes**, *Journal of the Serbian Chemical Society* 70, (2005), 1-7.
M23, IF₂₀₀₄ = 0.522
47. Aleksandar V. Teodorović, Milan D. Joksović, Ivan Gutman, Zeljko Tomović, **Amino acid mediated borane reduction of ketones. II**, *Monatshfte fuer Chemie* 133, (2002), 23-29.

48. Zoran D. Matović, Bojan Ristić, Milan Joksović, Srećko R. Trifunović, Giorgio Pelosi, Sandra Ianelli, Gustavo Ponticelli, **Square-planar copper(II) complexes with a novel tetradentate amido-carboxylate ligand. Crystal structure of $[\text{Co}(\text{H}_2\text{O})_6][\text{Cu}(\text{mda})] \cdot 2\text{H}_2\text{O}$** , *Transition Metal Chemistry* (Dordrecht, Netherlands) 25, (2000), 720-726.
49. Aleksandar V. Teodorović, Milan D. Joksović, Stanimir K. Konstantinović, Jovan N. Milovanović, Biljana M. Mojsilović, **Valine-mediated borane reduction of ketones**, *Journal of the Serbian Chemical Society* 65, (2000), 549-553.
50. Aleksandar V. Teodorović, Milan D. Joksović, Stanimir K. Konstantinović, Biljana M. Mojsilović, Mihailo L. Mihailović, **Amino acid mediated borane reduction of ketones**, *Monatshefte fuer Chemie* 131, (2000), 91-95.
51. Jovan N. Milovanović, Milan Joksović, **Relative reactivities of cycloalkanols toward trichloromethyl radical**, *Journal of the Serbian Chemical Society* 63, (1998), 143-147.
52. Predrag Djurdjević, Milan Joksović, Tatjana Maksin, Dragan Veselinović, Gustavo Ponticelli, **Acid-base equilibria in solutions of a derivative of p-aminohippuric acid**, *Gazzetta Chimica Italiana* 123, (1993), 563-8.