

## CURRICULUM VITAE- Sandra Jovičić Milić



### **Contact:**

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### **Education:**

2007 - 2011 - *Bachelor`s degree in Chemistry*, Department of Chemistry, Faculty of Science, University of Kragujevac, Kragujevac, Serbia;

2011 - 2012 - *Master`s degree in Chemistry*, Department of Chemistry, Faculty of Science, University of Kragujevac, Kragujevac, Serbia;

***PhD in Chemistry:*** (*Mentor: Professor Verica V. Jevtić*) Department of Chemistry, Faculty of Sciences, University of Kragujevac, Serbia, 2013 -

### **Scientific Background**

2018 – present – Junior research assistant: Department of Chemistry, Faculty of Science, University of Kragujevac, Kragujevac, Serbia

### **Research interest**

#### **Coordination chemistry**

- Coordination chemistry, synthesis of new ethylenediamine derivatives of amino acids as ligands and their transition metal complexes (palladium(II) and platinum(II)) and synthesis of new transition metal (palladium(II) and platinum(II), platinum (IV), copper(II), silver(I)) complexes with some thiazoles.
- Structural characterization of new ligands and metal complexes by applying different spectroscopic methods (IR and NMR) and X-ray crystallography;

- Testing of biological activity (antitumor-MTT colorimetric technique and antimicrobial-microdilution method with resazurin) of ligands precursors and corresponding transition metal complexes;
- Follow-up of substitution reactions in the presence of guanosine-5'-monophosphate, as well as CT-DNK and in the presence of serum albumin.

**Relevant Publications:**

1. **Jovičić Milić SS**, Jevtić VV, Stojković DLj, Petrović ĐS, Avdović EH, Marković ZS, Radojević ID, Čomić Lj, Mladenović VS, Synthesis, characterization and antimicrobial activity of palladium(II) complexes with *O,O'*-dialkyl esters of (*S,S*)-ethylenediamine-*N,N'*-di-(3,3'-1H-indol-3yl)-propionic acid, *Inorganica Chimica Acta* 2020; 510: 119743.

**Projects:**

- National project of Ministry of Education, Science and Technological Development of the Republic of Serbia OI172016: Synthesis, modelling, physico-chemical and biological properties of organic compounds and corresponding metal complexes;

**Membership:**

- Serbian Crystallographic Society;
- Serbian Chemical Society