

PERSONAL INFORMATIONS

Name Milica Medjedovic Stefanovic
Date and place of birth 23.04.1993. Bor, Serbia
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EDUCATION

2018- Ph.D. in Chemistry, Faculty of Science, University of Kragujevac, Serbia
2017-2018 M.Sc. in Chemistry, Faculty of Science, University of Kragujevac
2012-2017 B.Sc. in Chemistry, Faculty of Science, University of Kragujevac
2008-2012 Medical school, Zajecar
2000-2008 Primary school, Bor

EMPLOYMENT

2019-2021 First stage researcher
2021- Junior Researcher

AWARDS

Awarded by the Kostic fondation

SCIENTIFIC OVERVIEW

Research interests Coordination chemistry

Publications

1. **M. Medjedović**, A. Mijatović, R. Baošić, D. Lazić, Ž. Milanović, Z. Marković, J. Milovanović, D. Arsenijević, B. Stojanović, M. Arsenijević, M. Milovanović, B. Petrović, A. R. Simović,
Synthesis, characterization, biomolecular interactions, molecular docking, and in vitro and in vivo anticancer activities of novel ruthenium(III) Schiff base complexes, *Journal of Inorganic Biochemistry*, 2023, **248**,112363.

2. M. Međedović, D. Čočić, A. Mijatović, V. Simić, Ž. Milanović, M. Kosanić, N. Petrović, S. Sretenović, A. R. Simović

In silico and *in vitro* biological evaluation: distribution of Ru(III) Schiff base complexes through the pancreatic 3D model and immersed blood vessel network.

Journal of Coordination Chemistry, 2024, 1–20.

3. A. Rilak Simović, M. Međedović, D. Lazić, M. Vraneš, G. Mahmoudi, B. Petrović, Biological activitz og thienzl-terpyridine Ru(II) complex in the presence of biocompatibile ionic liquids

2nd International Conference on Chemo and Bioinformatics (ICCBIG_2023), Seštember 28-29, 2023, Kragujevac, Serbia

4. M. Međedović, D. Lazić, M. Vraneš, G. Mahmoudi, B. Petrović, A. Rilak Simović

Kinetic studies of the Ru(II) polypyridyl complex with biologically relevant ligands

2nd International Conference on Chemo and Bioinformatics (ICCBIG_2023), September 28-29, 2023, Kragujevac, Serbia

5. A. Rilak Simović, M. Međedović, B. Petrović
Synthesis, characterization and kinetic studies of new mononuclear ruthenium (II) polypyridyl complexes
II International conference on advances in science and technology (Coast 2023), Herceg Novi, 31 May- 03 June, 2023, Montenegro

6. M. Međedović, A. Rilak Simović, B. Petrović
New ruthenium (II) complexes with quinone diimine and substituted bipyridine as inert ligands: Competitive interactions with DNA and HSA

30th Young Research Fellows Meeting, 1-3 February, Paris, France

7. M. Međedović, A. Rilak Simović, B. Petrović,

Study of the interactions of new ruthenium(II)-
polypyridyl complexes with DNA and HSA
59th Meeting of the Serbian Chemical Society, 1-2 June,
Novi Sad, Serbia

8. B. Petrović, A. Rilak Simović, M. Međedović,
The interactions of new mononuclear ruthenium (III)
complexes with DNA and BSA
I International conference on advances in science and
technology (Coast 2022), Herceg Novi, 26-29 May, 2022,
Montenegro

9. Rilak Simović, D. Lazić, **M. Međedović**, D. Čočić, B.
Petrović
Synthesis and biological activity of the new pincer type
ruthenium(III) complex
1st International Conference on Chemo and
Bioinformatics, 2021, 26-27 October, Kragujevac, Serbia

10. S. Radisavljević, **M. Međedović**, A. Rilak, D. Čočić,
B. Petrović
New mononuclear gold(III) complexes – Study of the
DNA/HSA/BSA binding properties
GP2A 2021-29th Annual Conference, 25-27 August 2021,
Online

11. A. Rilak Simović, **M. Međedović**, D. Čočić. B
Petrović
Synthesis and biological activity of the new heteronuclear
ruthenium(II)/ferrocene complexes
18th Hellenic Symposium on Medicinal Chemistry, 25-27
February 2021, Online Symposium

12. N. Planojević, S. Blagojević, A. Nikezić, M.
Milutinović, J. Jovankić, N. Radenković, S. Radisavljević,
M. Međedović, B. Petrović, P. Arsenijević, N. Jović, S.
Mujković, S. Marković

The influence of newly synthesized Au(III) and Ru(II) complexes on gene expression on primary ovarian cancer cell culture from ascites

Serbian biochemical society tenth conference, 24. September, Kragujevac, Serbia

13. S. Blagojević, N. Planojević, A. Nikezić, M. Milutinović, J. Jovankić, D. Arsenijević, S. Radisavljević, **M. Međedović**, B. Petrović, P. Arsenijević, N. Jović, S. Mujković, S. Marković

Impact of gold(III) and ruthenium(II) complexes on miRNA expression involved in metastasis on primary ovarian cell culture isolated from ascites

Serbian biochemical society tenth conference, 24. September, Kragujevac, Serbia

14. **M. G. Međedović**, D. S. Čočić, A. M. Rilak Simović, B. V. Petrović

Interakcije novosintetisanih rutenijum-tpy kompleksa sa DNK i HSA

57. Savetovanje Srpskog hemijskog društva, 18. i 19. jun 2021, Kragujevac

15. **Milica Međedović**, Dušan Čočić, Ana Rilak Simović, Biljana Petrović

Interakcije novosintetisanih rutenijum-tpy kompleksa sa DNK i HSA

57. Savetovanje Srpskog hemijskog društva, 18. i 19. jun 2021, Kragujevac

16. Ana Rilak Simović, **Milica Međedović**, Dušan Čočić, Biljana Petrović

Synthesis and biological activity of the new heteronuclear ruthenium(II)/ferrocene complexes

18th Hellenic Symposium on Medicinal Chemistry, 25-27 February 2021, Online Symposium

17. S. S. Jovičić Milić, V. V. Jevtić, E. H. Avdović, B. Petrović, **M. Međedović**, Đ. S. Petrović, M. Milovanović,

J. Milovanović, N. Arsenijević, D. Lj. Stojković, G. P. Radić, M. J. Stanković

DNA binding, molecular docking study and antitumor activity of $[PdCl_2(R_2.(S,S)-eddrp)]$ complexes
Monatshefte für Chemie, 2021, 152, 951-958.

18. Milica Mededović, Ana Rilak-Simović, Dušan Čočić, Milan Milutinović, Laura Senft, Stefan Blagojević, Nevena Milivojević, Biljana Petrović

Dinuclear ruthenium(II) polypyridyl complexes:
Mechanistic study with biomolecules, DNA/BSA interactions and cytotoxic activity
Polyhedron, 2020, **178**, 114334

19. Sandra Jovicic Milic, Verica Jevtić, Edina Avdović, Biljana Petrović, **Milica Medjedović**, Djordje Petrović, Marija Milovanović, Jelena Milovanović, Nebojša Arsenijević, Danijela Stojković, Gordana Radić, Miloš Stanković, DNA binding, molecular docking study and antitumor activity of $[PdCl_2(R-2-(S,S)-eddrp)]$ complexes, *MONATSHEFTE FÜR CHEMIE*, 2021, **152**, 951-958.

20. Ana Popović, Miloš V Nikolić, Marina Z Mijajlović, Zoran R Ratković, Verica V Jevtić, Srećko R Trifunović, Gordana P Radić, Milan M Zarić, Petar P Čanović, Marija Z Milovanović, Snežana R Radisavljević, **Milica Mededović**, Biljana V Petrović. Ivan P Jovanović, DNA binding and antitumor activities of zinc(II) complexes with some S-alkenyl derivatives of thiosalicylic acid, *TRANSITION METAL CHEMISTRY*, (2019), vol. 44 br. 3, str. 219-228

21. Milica Mededović, Biljana Petrović (2019)
Litijum- Opšte karakteristike i primena u industriji, medicini i farmaciji; *Hemijski pregled*, 60 br. 6, 139-145

22. Milica Mededović, Ana Rilak Simović, Biljana Petrović, "Synthesis and characterization of new

bifunctional ruthenium(II) polypyridyl complexes", 9th International Conference of the Chemical Societies of the South-Eastern European Countries, Trgovište, Rumunija, 8-11 maja 2019, S2_P_02.

23. Milica Mededović, Dušan Čočić, Snežana Radisavljević, Biljana Petrović, Ispitivanje interakcija novih kompleksa platine(II) i paladijuma(II) sa DNK, Šesta konferencija mladih hemičara Srbije, Beograd, Srbija, 27. oktobar 2018. MH10 PE

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