

Biljana Đ. Glišić, Associate Professor
Faculty of Science, University of Kragujevac
CURRICULUM VITAE



PERSONAL DATA

Date of birth: September 19, 1985

Country and place of birth: Serbia, Kragujevac

Nationality: Serbian

Present citizenship: Serbia

EDUCATION

- PhD in Chemistry (supervisor Miloš I. Djuran): Faculty of Science, University of Kragujevac, Kragujevac, Serbia, 2008 – 2012
- Diploma in Chemistry: Faculty of Science, University of Kragujevac, Kragujevac, Serbia, 2004 – 2008
- Secondary school: Kragujevac, Serbia, 2000 – 2004
- Primary school: Kragujevac, Serbia, 1992 – 2000

POSTDOCTORAL FELLOWSHIP

- Research fellow (c/o. Professor Katharina M. Fromm): Department of Chemistry, University of Fribourg, Switzerland, January – February 2017
- Research fellow (c/o. Professor Urszula Rychlewska and Professor Marcin Hoffmann): Faculty of Chemistry, Adam Mickiewicz University, Poznań, Poland, February – May 2015
- Research fellow (c/o. Professor Peter Comba): Anorganisch-Chemisches Institut, Heidelberg University, Heidelberg, Germany, September 2014 – January 2015

PROFESSIONAL SOCIETIES

- Member of the Serbian Chemical Society
- Member of the Serbian Crystallographic Society

PROFESSIONAL SOCIETY COMMITTEES AND SYMPOSIA

- Member of the Organizing Committee, 53th Meeting of the Serbian Chemical Society, Kragujevac, June 10 – 11, 2016
- Member of the Organizing Committee, International Meeting on Medicinal and Bio(in)organic Chemistry, Vrnjačka Banja, Serbia, August 26 – 31, 2017
- Member of the Scientific Committee, 57th Meeting of the Serbian Chemical Society, Kragujevac, June 18 – 19, 2021

- Member of the Organizing Committee, The First International Conference on Chemo and BioInformatics (ICCBKIG) 2021, Kragujevac, Serbia, October 26 – 27, 2021

REVIEWER OF THE SCIENTIFIC JOURNALS AND INTERNATIONAL PROJECTS

- Polyhedron, Letters in Organic Chemistry, Journal of the Serbian Chemical Society, Journal of the Chemical Society of Pakistan, Serbian Journal of Experimental and Clinical Research, European Journal of Medicinal Chemistry, Iranian Journal of Chemistry and Chemical Engineering, Catalysis Today, Journal of Inorganic and Organometallic Polymers and Materials, Inorganica Chimica Acta, RSC Advances, Journal of Molecular Structure, ChemMedChem, Arabian Journal of Chemistry, Frontiers in Pharmacology, Molecules, BioMetals, Pharmaceutics, Bioinorganic Chemistry and Applications, Journal of Inorganic Biochemistry, Inorganics, International Journal of Molecular Sciences, Polymers, Bulletin of the Chemical Society of Ethiopia, Journal of Biological Inorganic Chemistry, Nutrients, Scientific Reports, Bioorganic Chemistry, Research on Chemical Intermediates, Future Medicinal Chemistry, Biomedicines, Crystals, ChemistrySelect, Open Chemistry, Results in Chemistry, New Journal of Chemistry, Kragujevac Journal of Science, Journal of Coordination Chemistry, Computational Biology and Chemistry, Journal of Molecular Liquids, Biomolecules, FEMS Microbiology Letters, Chemistry & Biodiversity, Chemical Papers, Chemistry, Journal of the Taiwan Institute of Chemical Engineers, Smart Science, Future Microbiology, Inorganic Chemistry Communications, Journal of Materials Chemistry B, Helyion, Dalton Transactions, Chemical Biology and Drug Design
- National Scientific Foundation, Poland (NSF)
- Ministry of Education, Science and Technological Development of the Republic of Serbia (bilateral projects)

INVITED LECTURES

- Faculty of Chemistry, Jagiellonian University, Kraków, Poland, 2015
- Faculty of Chemistry, University of Gdańsk, Gdańsk, Poland, 2015
- International Summer School, Borovets, Bulgaria, 2016
- Institute of Molecular Genetics and Genetic Engineering, University of Belgrade, 2016
- 54th Meeting of the Serbian Chemical Society, Belgrade, Serbia, September 29 – 30, 2017
- Petnica Research Center, Seminar „Chemistry of Complexes”, September 25, 2018
- Meeting of the Section for Medicinal Chemistry of the Serbian Chemical Society, Faculty of Chemistry, University of Belgrade, February 18, 2019
- Faculty of Chemistry, Adam Mickiewicz University, Poznań, Poland, June 28, 2019

SCIENTIFIC PUBLICATIONS

66 publications

LANGUAGES

- Mother tongue: Serbian
- Other languages: English and French

EMPLOYMENT

- Associate Professor: Faculty of Science, University of Kragujevac, Kragujevac, Serbia, 2022 – present
- Assistant Professor: Faculty of Science, University of Kragujevac, Kragujevac, Serbia, 2017 – 2022

- Research Fellow: Faculty of Science, University of Kragujevac, Kragujevac, Serbia, 2013 – 2017
- Research Assistant: Faculty of Science, University of Kragujevac, Kragujevac, Serbia, 2008 – 2013

TEACHING

Chemistry (for biology students), Standards in Environmental Protection, Complexes in Medicine

PROJECTS

- Project title: „Structures of novel transition metal complexes and mechanism of their reactions with biologically important ligands”, 2008 – 2010 (Project No. 142008; Project is funded by the Ministry of Education, Science and Technological Development of the Republic of Serbia)
- Project title: „Synthesis of new metal complexes and investigation of their reactions with peptides”, 2011 – 2019 (Project No. 172036; Project is funded by the Ministry of Education, Science and Technological Development of the Republic of Serbia)
- Bilateral project 2016 – 2017, Project title: „Novel platinum-group metal complexes for biomedical applications” (Faculty of Science, University of Kragujevac, Serbia and Faculty of Chemistry and Chemical Technology, University of Ljubljana, Slovenia; Project No. 24)
- SCOPES 2016 – 2018, Project title: „Biomedical Dimension of Supramolecular Chemistry in the training and research in the Balkans area” (Institutional partnership between Department of Chemistry, University of Fribourg, Switzerland, Department of Chemistry, University of Kragujevac, Serbia and Institute of Organic Chemistry with Centre of Phytochemistry, Bulgarian Academy of Sciences, Sofia, Bulgaria; Project No. IZ74Z0_160515)
- Project title: „Metal complexes as potential therapeutic agents”, 2016 – present (Project No. F128; Project is funded by the Serbian Academy of Sciences and Arts)
- Project title: „Synthesis and application of new chemotherapeutics based on natural products and metal complexes”, 2019 – 2021 (Project No. 01-2019-F65; Project is funded by the Serbian Academy of Sciences and Arts)
- Ministry of Education, Science and Technological Development of the Republic of Serbia, 451-03-68/2020-14/200122, 451-03-68/2021-14/200122, 451-03-68/2022-14/200122, 451-03-47/2023-01/200122, 451-03-65/2024-03/200122
- Project title: „Value-added biologics through eco-sustainable routes”, 2022 – 2024 (Project No. 7730810; Project is funded by the Science Fund of the Republic of Serbia)
- COST 2022 – 2026. Project title: „CA21145 - European Network for diagnosis and treatment of antibiotic-resistant bacterial infections (EURESTOP)” – working group member
- COST 2023 – 2027. Project title: „CA22131 – Supramolecular Luminescent Chemosensors for Environmental Security (LUCES)” – MC and working group member
- Bilateral project Serbia – Slovenia (2023 – 2025), Project title: „Development of metal-azole based therapeutics for the treatment of fungal infections” (Faculty of Science, University of Kragujevac, Serbia and Faculty of Chemistry and Chemical Technology, University of Ljubljana, Slovenia; Project No. 19)

RESEARCH INTERESTS

- Coordination Chemistry and Medicinal Inorganic Chemistry, including the synthesis of various transition metal complexes, their characterization by different spectroscopic, electrochemical and crystallographic methods, as well as evaluation of biological activity of

the synthesized metal complexes for their potential use in medicine by different spectroscopic and crystallographic methods

- Investigation of interactions of metal complexes with biologically important molecules, such as peptides, proteins and nucleic acids by spectroscopic and electrochemical methods

AWARDS

- Diploma „Vuk Karadžić” for all excellent marks through the primary school
- Diploma „Vuk Karadžić” for all excellent marks through the secondary school
- University scholarship for the best students of the University of Kragujevac, 2007/2008
- Award of the Serbian Chemical Society for extraordinary success during the Chemistry studies, 2009
- Award of the Serbian Chemical Society for the best oral presentation on the First International Conference of Young Chemists of Serbia, Belgrade, Serbia, October 19 – 20, 2012
- Medal of the Serbian Chemical Society for success in science, December 7, 2016
- IUPAC poster prize – 54th Meeting of the Serbian Chemical Society, Belgrade, Serbia, September 29 – 30, 2017
- IUPAC poster prize – 55th Meeting of the Serbian Chemical Society, Novi Sad, Serbia, June 8 –9, 2018
- Nenad M. Kostić Foundation, Award for the successful mentorship, Kragujevac, Serbia, September 22, 2020
- The annual award for outstanding scientific results at the University of Kragujevac in the field of natural sciences, Kragujevac, May 21, 2023

CITATION (Scopus)

Total citations: 1047 (Author *h*-index 18); 781 (without self-citations; author *h*-index 15) (October 4th, 2024).

1. LIST OF SCIENTIFIC PUBLICATIONS OF BILJANA Đ. GLIŠIĆ

- 1.1. I. Gutman, B. Furtula, B. Glišić, V. Marković and A. Vesel**
Estrada index of acyclic molecules
Indian Journal of Chemistry. Section A: Inorganic, physical, theoretical and analytical chemistry, **46** (2007) 723-728.
- 1.2. I. Gutman, B. Furtula, V. Marković and B. Glišić**
Alkanes with greatest Estrada index
Zeitschrift für Naturforschung. Section A: Journal of physical sciences, **62** (2007) 495-498.
DOI: 10.1515/zna-2007-0905.
- 1.3. S. Rajković, B. Đ. Glišić, M. D. Živković and M. I. Djuran**
Hydrolysis of the amide bond in methionine-containing peptides catalyzed by various palladium(II) complexes: Dependence of the hydrolysis rate on the steric bulk of the catalyst
Bioorganic Chemistry, **37** (2009) 173-179.
DOI:10.1016/j.bioorg.2009.07.002
- 1.4. U. Rychlewska, B. Warzajtis, B. Đ. Glišić, S. Rajković and M. I. Djuran**
Crystallographic evidence of Gly-D,L-Met oxidation to its sulfoxide in the presence of gold(III): solid solution of the racemic mixture of two diastereoisomers
Acta Crystallographica. Section C: Crystal Structure Communications, **66** (2010) 51-54.
DOI:10.1107/S0108270110001666
- 1.5. B. Đ. Glišić, S. Rajković, M. D. Živković and M. I. Djuran**
A comparative study of the complex formation in the reactions of gold(III) with Gly-Gly, Gly-L-Ala and Gly-L-His dipeptides
Bioorganic Chemistry, **38** (2010) 144-148.
DOI:10.1016/j.bioorg.2010.03.002
- 1.6. U. Rychlewska, B. Warzajtis, B. Đ. Glišić, M. D. Živković, S. Rajković and M. I. Djuran**
Monocationic gold(III) Gly-L-His and L-Ala-L-His dipeptide complexes: crystal structures arising from solvent free and solvent-containing crystal formation and structural modifications tuned by counter-anions
Dalton Transactions, **39** (2010) 8906-8913.
DOI: 10.1039/C0DT00163E
- 1.7. B. Đ. Glišić, S. Rajković, Z. Stanić and M. I. Djuran**
A spectroscopic and electrochemical investigation of the oxidation pathway of glycyl-D,L-methionine and its *N*-acetyl derivative induced by gold(III)
Gold Bulletin, **44** (2011) 91-98.
DOI: 10.1007/s13404-011-0014-9

- 1.8. B. Đ. Glišić, U. Rychlewska and M. I. Djuran**
Reactions and structural characterization of gold(III) complexes with amino acids, peptides and proteins
Dalton Transactions, **41** (2012) 6887-6901.
DOI: 10.1039/C2DT30169E
- 1.9. B. Đ. Glišić, S. Rajković and M. I. Djuran**
The reactions of $[\text{Au}(\text{dien})\text{Cl}]^{2+}$ with L-histidine-containing dipeptides. Dependence of complex formation on the dipeptide structure
Journal of Coordination Chemistry, **66** (2013) 424-434.
DOI: 10.1080/00958972.2012.759652
- 1.10. B. Đ. Glišić, Z. D. Stanić, S. Rajković, V. Kojić, G. Bogdanović and M. I. Djuran**
Solution study under physiological conditions and cytotoxic activity of the gold(III) complexes with L-histidine-containing peptides
Journal of the Serbian Chemical Society, **78** (2013) 1911-1924.
DOI: 10.2298/JSC130920105G
- 1.11. B. Đ. Glišić*, M. I. Djuran, Z. D. Stanić and S. Rajković**
Oxidation of methionine residue in Gly-Met dipeptide induced by $[\text{Au}(\text{en})\text{Cl}_2]^+$ and influence of the chelated ligand on the rate of this redox process
Gold Bulletin, **47** (2014) 33-40.
DOI: 10.1007/s13404-013-0108-7
- 1.12. B. Đ. Glišić and M. I. Djuran**
Gold complexes as antimicrobial agents: an overview of different biological activities in relation to the oxidation state of gold ion and ligand structure
Dalton Transactions, **43** (2014) 5950-5969.
DOI: 10.1039/C4DT00022F
- 1.13. B. Warzajtis, B. Đ. Glišić, N. S. Radulović, U. Rychlewska and M. I. Djuran**
Gold(III) complexes with monodentate coordinated diazines: an evidence for strong electron-withdrawing effect of Au(III) ion
Polyhedron, **79** (2014) 221-228.
DOI: 10.1016/j.poly.2014.05.009
- 1.14. B. Đ. Glišić, B. Warzajtis, N. S. Radulović, U. Rychlewska and M. I. Djuran**
Gold(III) complexes with phenazine and quinoxaline: The role of molecular symmetry in intra- and intermolecular interactions
Polyhedron, **87** (2015) 208-214.
DOI: 10.1016/j.poly.2014.11.011
- 1.15. B. Warzajtis, B. Đ. Glišić*, M. D. Živković, S. Rajković, M. I. Djuran and U. Rychlewska**
Different reaction products as a function of solvent: NMR spectroscopic and crystallographic characterization of the products of the reaction of gold(III) with 2-(aminomethyl)pyridine
Polyhedron, **91** (2015) 35-41.
DOI: 10.1016/j.poly.2015.02.031

- 1.16. **N. D. Savić, B. Đ. Glišić***, H. Wadepohl, A. Pavic, L. Senerovic, J. Nikodinovic-Runic and M. I. Djuran
Silver(I) complexes with quinazoline and phthalazine: synthesis, structural characterization and evaluation of biological activities
MedChemComm, **7** (2016) 282-291.
DOI: 10.1039/C5MD00494B
- 1.17. **B. Đ. Glišić, L. Senerovic, P. Comba, H. Wadepohl, A. Veselinovic, D. R. Milivojevic, M. I. Djuran and J. Nikodinovic-Runic**
Silver(I) complexes with phthalazine and quinazoline as effective agents against pathogenic *Pseudomonas aeruginosa* strains
Journal of Inorganic Biochemistry, **155** (2016) 115-128.
DOI: 10.1016/j.jinorgbio.2015.11.026
- 1.18. **B. Đ. Glišić, M. Hoffmann, B. Warzajtis, M. S. Genčić, P. D. Blagojević, N. S. Radulović, U. Rychlewska and M. I. Djuran**
Selectivity of the complexation reactions of four regioisomeric methylcamphorquinoxaline ligands with gold(III): X-ray, NMR and DFT investigations
Polyhedron, **105** (2016) 137-149.
DOI: 10.1016/j.poly.2015.12.009
- 1.19. **N. D. Savić, D. R. Milivojevic, B. Đ. Glišić***, T. Ilic-Tomic, J. Veselinovic, A. Pavic, B. Vasiljevic, J. Nikodinovic-Runic and M. I. Djuran
A comparative antimicrobial and toxicological study of gold(III) and silver(I) complexes with aromatic nitrogen-containing heterocycles: Synergistic activity and improved selectivity index of Au(III)/Ag(I) complexes mixture
RSC Advances, **6** (2016) 13193-13206.
DOI: 10.1039/C5RA26002G
- 1.20. **B. Đ. Glišić***, N. D. Savić, B. Warzajtis, L. Djokic, T. Ilic-Tomic, M. Antić, S. Radenković, J. Nikodinovic-Runic, U. Rychlewska and M. I. Djuran
Synthesis, structural characterization and biological evaluation of dinuclear gold(III) complexes with aromatic nitrogen-containing ligands: antimicrobial activity in relation to the complex nuclearity
MedChemComm, **7** (2016) 1356-1366.
DOI: 10.1039/C6MD00214E
- 1.21. **B. Đ. Glišić***, I. Aleksic, P. Comba, H. Wadepohl, T. Ilic-Tomic, J. Nikodinovic-Runic and M. I. Djuran
Copper(II) complexes with aromatic nitrogen-containing heterocycles as effective inhibitors of quorum sensing activity in *Pseudomonas aeruginosa*
RSC Advances, **6** (2016) 86695-86709.
DOI: 10.1039/C6RA19902J
- 1.22. **B. Warzajtis, B. Đ. Glišić, N. D. Savić, A. Pavic, S. Vojnovic, A. M Veselinović, J. Nikodinovic-Runic, U. Rychlewska and M. I. Djuran**
Mononuclear gold(III) complexes with L-histidine-containing dipeptides: tuning the structural and biological properties by variation of the N-terminal amino acid and counter anion
Dalton Transactions, **46** (2017) 2594-2608.

- 1.23. **N. S. Drašković, B. Đ. Glišić*, S. Vojnović, J. Nikodinović-Runić and M. I. Djuran**
In vitro antimicrobial activity and cytotoxicity of nickel(II) complexes with different diamine ligands
Journal of the Serbian Chemical Society, **82** (2017) 289-398.
DOI: 10.2298/JSC170113026D
- 1.24. **M. D. Živković, S. Rajković, B. Đ. Glišić, N. S. Drašković and M. I. Djuran**
Hydrolysis of the amide bond in histidine- and methionine-containing dipeptides promoted by pyrazine and pyridazine palladium(II)-aqua dimers: comparative study with platinum(II) analogues
Bioorganic Chemistry, **72** (2017) 190-198.
DOI: 10.1016/j.bioorg.2017.04.008
- 1.25. **A. Pavic, B. Đ. Glišić*, S. Vojnovic, B. Warzajtis, N. D. Savić, M. Antić, S. Radenković, G. V. Janjić, J. Nikodinovic-Runic, U. Rychlewska and M. I. Djuran**
Mononuclear gold(III) complexes with phenanthroline ligands as efficient inhibitors of angiogenesis: A comparative study with auranofin and sunitinib
Journal of Inorganic Biochemistry, **174** (2017) 156-168.
DOI: 10.1016/j.inorgbio.2017.06.009
- 1.26. **I. M. Stanojević, I. Aleksic, N. S. Drašković, B. Đ. Glišić, S. Vojnović and J. Nikodinović-Runić**
Copper(II) complexes with different diamines as inhibitors of bacterial quorum sensing activity
Journal of the Serbian Chemical Society, **82** (2017) 1357-1367.
DOI: 10.2298/JSC170706087S
- 1.27. **S. Radenković, M. Antić, N. Savić and B. Đ. Glišić**
The nature of Au—N bond in gold(III) complexes with aromatic nitrogen-containing heterocycles. The influence of Au(III) ion on the ligand aromaticity
New Journal of Chemistry, **41** (2017) 12407-12415.
DOI: 10.1039/C7NJ02634J
- 1.28. **B. Đ. Glišić*, J. Nikodinovic-Runic, T. Ilic-Tomic, H. Wadepohl, A. Veselinović, I. M. Opsenica and M. I. Djuran**
Synthesis, cytotoxic activity and DNA-binding properties of copper(II) complexes with terpyridine
Polyhedron, **139** (2018) 313-322.
DOI: 10.1016/j.poly.2017.11.008
- 1.29. **N. S. Radulović, N. M. Stojanović, B. Đ. Glišić, P. J. Randelović, Z. Z. Stojanović-Radić, K. V. Mitić, M. G. Nikolić and M. I. Djuran**
Water-soluble gold(III) complexes with N-donor ligands as potential immunomodulatory and antibiofilm agents
Polyhedron, **41** (2018) 164-180.
DOI: 10.1016/j.poly.2017.11.044

- 1.30. S. Rajković, B. Waržajtis, M. D. Živković, B. Đ. Glišić, U. Rychlewska and M. I. Djuran**
Hydrolysis of methionine- and histidine-containing peptides promoted by dinuclear platinum(II) complexes with benzodiazines as bridging ligands: influence of ligand structure on the catalytic ability of platinum(II) complexes
Bioinorganic Chemistry and Applications, **2018** (2018) Article ID 3294948.
DOI: 10.1155/2018/3294948
- 1.31. N. D. Savić, S. Vojnovic, B. Đ. Glišić, A. Crochet, A. Pavic, G. V. Janjić, M. Pekmezović, I. M. Opsenica, K. M. Fromm, J. Nikodinovic-Runic and M. I. Djuran**
Mononuclear silver(I) complexes with 1,7-phenanthroline as potent inhibitors of *Candida* growth
European Journal of Medicinal Chemistry, **156** (2018) 760-773.
DOI: 10.1016/j.ejmech.2018.07.049
- 1.32. T. P. Andrejević, A. M. Nikolić, B. Đ. Glišić*, H. Wadepohl, S. Vojnovic, M. Zlatović, M. Petković, J. Nikodinovic-Runic, I. M. Opsenica and M. I. Djuran**
Synthesis, structural characterization and antimicrobial activity of silver(I) complexes with 1-benzyl-1*H*-tetrazoles
Polyhedron, **154** (2018) 325-333.
DOI: 10.1016/j.poly.2018.08.001
- 1.33. A. Pavic, N. D. Savić, B. Đ. Glišić, A. Crochet, S. Vojnovic, A. Kurutos, D. M. Stanković, K. M. Fromm, J. Nikodinovic-Runic and M. I. Djuran**
Silver(I) complexes with 4,7-phenanthroline efficient in rescuing the zebrafish embryos of lethal *Candida albicans* infection
Journal of Inorganic Biochemistry, **195** (2019) 149-163.
DOI: 10.1016/j.jinorgbio.2019.03.017
- 1.34. I. M. Stanojević, N. D. Savić, A. Crochet, K. M. Fromm, M. I. Djuran and B. Đ. Glišić***
Synthesis and structural analysis of polynuclear silver(I) complexes with 4,7-phenanthroline
Journal of the Serbian Chemical Society, **84** (2019) 689-699.
DOI: 10.2298/JSC190226024S
- 1.35. N. Lj. Stevanović, T. P. Andrejević, A. Crochet, T. Ilic-Tomic, N. S. Drašković, J. Nikodinovic-Runic, K. M. Fromm, M. I. Djuran and B. Đ. Glišić***
Different coordination abilities of 1,7- and 4,7-phenanthroline in the reactions with copper(II) salts: structural characterization and biological evaluation of the reaction products
Polyhedron, **173** (2019) 114112.
DOI: 10.1016/j.poly.2019.114112
- 1.36. S. Đurić, S. Vojnovic, A. Pavic, M. Mojicevic, H. Wadepohl, N. D. Savić, M. Popsavin, J. Nikodinovic-Runic, M. I. Djuran and B. Đ. Glišić***
New polynuclear 1,5-naphthyridine-silver(I) complexes as potential antimicrobial agents: The key role of the nature of donor coordinated to the metal center
Journal of Inorganic Biochemistry, **203** (2020) 110872.
DOI: 10.1016/j.jinorgbio.2019.110872

- 1.37. **S. Ž. Đurić, M. Mojicevic, S. Vojnovic, H. Wadepohl, T. P. Andrejević, N. Lj. Stevanović, J. Nikodinovic-Runic, M. I. Djuran and B. Đ. Glišić***
Silver(I) complexes with 1,10-phenanthroline-based ligands: The influence of epoxide function on the complex structure and biological activity
Inorganica Chimica Acta, **502** (2020) 119357.
DOI: 10.1016/j.ica.2019.119357
- 1.38. **S. Ž. Đurić, S. Vojnovic, T. P. Andrejević, N. Lj. Stevanović, N. D. Savić, J. Nikodinovic-Runic, B. Đ. Glišić* and M. I. Djuran**
Antimicrobial activity and DNA/BSA binding affinity of polynuclear silver(I) complexes with 1,2-bis(4-pyridyl)ethane/ethene as bridging ligands
Bioinorganic Chemistry and Applications, **2020** (2020) Article ID 3812050.
DOI: 10.1155/2020/3812050
- 1.39. **T. P. Andrejević, D. Milivojevic, B. Đ. Glišić, J. Kljun, N. Lj. Stevanović, S. Vojnovic, S. Medic, J. Nikodinovic-Runic, I. Turel and M. I. Djuran**
Silver(I) complexes with different pyridine-4,5-dicarboxylate ligands as efficient agents for the control of cow mastitis associated pathogens
Dalton Transactions, **49** (2020) 6084-6096.
DOI: 10.1039/D0DT00518E
- 1.40. **T. P. Andrejević, B. Warzajtis, B. Đ. Glišić, S. Vojnovic, M. Mojicevic, N. Lj. Stevanović, J. Nikodinovic-Runic, U. Rychlewska and M. I. Djuran**
Zinc(II) complexes with aromatic nitrogen-containing heterocycles as antifungal agents: synergistic activity with clinically used drug nystatin
Journal of Inorganic Biochemistry, **208** (2020) 111089.
DOI: 10.1016/j.jinorgbio.2020.111089
- 1.41. **T. P. Andrejević, B. Đ. Glišić* and M. I. Djuran**
Amino acids and peptides as versatile ligands in the synthesis of antiproliferative gold complexes
Chemistry, **2** (2020) 203-218.
DOI: 10.3390/chemistry2020013
- 1.42. **J. Gitarić, I. M. Stanojević, M. V. Rodić, N. S. Drašković, M. Stevanović, S. Vojnović, M. I. Djuran and B. Đ. Glišić***
Structural characterization and biological evaluation of polynuclear Mn(II) and Cd(II) complexes with 2,2-dimethyl-1,3-propanediamine-*N,N,N',N'*-tetraacetate. The influence of ligand structure and counter cation on the complex nuclearity
Polyhedron, **188** (2020) 114688.
DOI: 10.1016/j.poly.2020.114688
- 1.43. **N. D. Savić, B. B. Petković, S. Vojnovic, M. Mojicevic, H. Wadepohl, K. Olaifa, E. Marsili, J. Nikodinovic-Runic, M. I. Djuran and B. Đ. Glišić***
Dinuclear silver(I) complexes with a pyridine-based macrocyclic type of ligand as antimicrobial agents against clinically relevant species: the influence of the counteranion on the structure diversification of the complexes
Dalton Transactions, **49** (2020) 10880-10894.
DOI: 10.1039/D0DT01272F

- 1.44. **D. P. Ašanin, I. M. Stanojević, T. P. Andrejević, B. Đ. Glišić* and M. I. Djuran**
Reactions of gold(III) complexes with L-histidine-containing dipeptides: Influence of chelated ligand and N-terminal amino acid on the rate of peptide coordination
Journal of Coordination Chemistry, **73** (2020) 2182-2194.
DOI:10.1080/00958972.2020.1817415
- 1.45. **B. Đ. Glišić*, B. Warzajtis, M. Hoffmann, U. Rychlewska and M. I. Djuran**
Mononuclear gold(III) complexes with diazanaphthalenes: the influence of the position of nitrogen atoms in the aromatic rings on the complex crystalline properties
RSC Advances, **10** (2020) 44481-44493.
DOI: 10.1039/d0ra08731a
- 1.46. **N. Lj. Stevanović, I. Aleksic, J. Kljun, S. Skaro Bogojevic, A. Veselinovic, J. Nikodinovic-Runic, I. Turel, M. I. Djuran and B. Đ. Glišić***
Copper(II) and zinc(II) complexes with the clinically used fluconazole: comparison of antifungal activity and therapeutic potential
Pharmaceuticals, **14** (2021) 24.
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2. LIST OF SCIENTIFIC COMMUNICATIONS OF BILJANA Đ. GLIŠIĆ

- 2.1. **M. D. Živković, B. Đ. Glišić, S. Rajković and M. I. Djuran**
Gold(III) complexes with histidine- and methionine-containing peptides: the reactions studies and complexes characterization
6st International Conference of the Chemical Societies of the South-Eastern European Countries, Sofia, September 10 – 14, 2008, 3-P34.
- 2.2. **B. Đ. Glišić, M. D. Živković, S. Rajković and M. I. Djuran**
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47th Meeting of the Serbian Chemical Society, Belgrade, Serbia, March 21, 2009, NH 04.
- 2.3. **M. D. Živković, B. Đ. Glišić, S. Rajković and M. I. Djuran**
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- 2.4. **S. Rajković, B. Đ. Glišić, M. D. Živković and M. I. Djuran**
Hydrolysis of the amide bond in methionine-containing peptides catalyzed by various palladium(II) complexes: dependence of the hydrolysis rate on the steric bulk of the catalyst
10th International Symposium on Applied Bioinorganic Chemistry, Debrecen, September 25 – 28, 2009, P41.
- 2.5. **B. Đ. Glišić, M. D. Živković, S. Rajković, M. I. Djuran, B. Warzajtis and U. Rychlewska**
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- 2.6. **B. Đ. Glišić, S. Rajković and M. I. Djuran**
¹H NMR investigation of the oxidation reactions of glycyl-D,L-methionine and its *N*-acetylated derivate in the presence of gold(III)
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- 2.7. **B. Đ. Glišić, S. Rajković and M. I. Djuran**
¹H NMR study of reactions of the [AuCl(dien)]Cl₂ complex with *N*-acetyl derivatives of some dipeptides
49th Meeting of the Serbian Chemical Society, Kragujevac, Serbia, May 13 – 14, 2011, NH02-O.
- 2.8. **M. I. Djuran, B. Đ. Glišić and U. Rychlewska**
Spectroscopic investigation of reactions and structural characterization of gold(III) complexes with peptides
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- 2.9. **B. Đ. Glišić, S. Rajković and M. I. Djuran**
A study of the reactions of the monofunctional [M(dien)Cl]ⁿ⁺ complexes (M = Au(III), Pt(II) and Pd(II)) with L-histidine-containing dipeptides
First International Conference of the Young Chemists of Serbia, Belgrade, Serbia, October 19 – 20, 2012, HS O5.
- 2.10. **B. Đ. Glišić, S. Rajković, Z. D. Stanić, M. I. Djuran, G. Bogdanović and V. Kojić**
Solution study and cytotoxic activity of gold(III) complexes with L-histidine-containing peptides
8th International Conference of the Chemical Societies of the South-Eastern European Countries, Belgrade, Serbia, June 27 – 29, 2013, BS-CB P06.
- 2.11. **B. Đ. Glišić, S. Rajković, Z. D. Stanić and M. I. Djuran**
A spectroscopic and electrochemical investigation of the reactions of gold(III)-peptide complexes with glutathione under physiologically relevant conditions
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- 2.12. **B. Đ. Glišić, B. Warzajtis, N. S. Radulović, U. Rychlewska and M. I. Djuran**
Gold(III) complexes with monodentate coordinated quinoxaline and phenazine
51th Meeting of the Serbian Chemical Society, Niš, Serbia, June 5 – 7, 2014, NH O 01.
- 2.13. **M. I. Djuran, B. Warzajtis, B. Đ. Glišić, N. S. Radulović and U. Rychlewska**
Synthesis and structural characterization of gold(III) complexes with nitrogen-containing heterocycles
12th European Biological Inorganic Chemistry Conference, Zürich, August 24 – 28, 2014, P0-52.
- 2.14. **N. D. Savić, D. R. Milivojević, J. Nikodinović-Runić, B. Đ. Glišić and M. I. Djuran**
Solution study and biological activity of gold(III) complexes with aromatic nitrogen-containing heterocycles

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Third Conference of the Young Chemists of Serbia, Belgrade, Serbia, October 24, 2015, HS P31.
- 2.16. D. R. Milivojević, N. D. Savić, B. Đ. Glišić, T. Ilić-Tomić, M. I. Djuran and B. Vasiljević**
Silver(I) and gold(III) complexes with aromatic nitrogen-containing heterocycles: Antimicrobial evaluation
Microbiologia Balkanica 2015, Thessaloniki, October 22 – 24, 2015, P9B
- 2.17. N. D. Savić, B. Waržajtis, B. Đ. Glišić, M. Antić, S. Radenković, U. Rychlewska and M. I. Djuran**
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- 2.18. S. Radenković, M. Antić, N. D. Savić, B. Đ. Glišić and M. I. Djuran**
The nature of Au-N bond and aromaticity of N-heterocycles coordinated to Au(III) ion
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- 2.19. N. D. Savić, B. Waržajtis, B. Đ. Glišić, L. Djokić, T. Ilić-Tomić, J. Nikodinović-Runić, U. Rychlewska and M. I. Djuran**
Synthesis and biological evaluation of dinuclear gold(III) complexes with aromatic nitrogen-containing heterocycles
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- 2.20. N. D. Savić, B. Đ. Glišić, B. Waržajtis, J. Nikodinović-Runić, U. Rychlewska and M. I. Djuran**
Synthesis and biological evaluation of gold(III) complexes with some L-histidine-containing dipeptides
13th European Biological Inorganic Chemistry Conference, Budapest, Hungary, August 28 – September 01, 2016, P139.
- 2.21. N. D. Savić, B. Đ. Glišić, M. I. Djuran, A. Crochet and K. Fromm**
Synthesis and characterization of silver(I) complexes with aromatic N-heterocycles
Fourth Conference of the Young Chemists of Serbia, Belgrade, Serbia, November 05, 2016, HS P21.
- 2.22. N. D. Savić, B. Đ. Glišić, A. Crochet, S. Vojnovic, A. Pavic, J. Nikodinovic-Runic, K. M. Fromm and M. I. Djuran**
Silver(I) complexes with phenanthroline ligands: structural characterization and biological evaluation

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- 2.23. S. Rajković, M. D. Živković, B. Đ. Glišić and M. I. Djuran**
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14th International Symposium on Applied Bioinorganic Chemistry, Toulouse, France, June 7 – 10, 2017, P202.
- 2.24. N. Savić, B. Glišić, A. Pavić, M. Đuran, J. Nikodinović-Runić and S. Vojnović**
Metal complexes as a base for new antifungal drugs
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- 2.25. N. D. Savić, B. Đ. Glišić, A. Pavić, B. Warzajtis, S. Vojnović, J. Nikodinović-Runić, U. Rychlewska and M. I. Djuran**
Gold(III) complexes as effective angiogenesis inhibitors
International Meeting on Medicinal and Bio(in)organic Chemistry, Vrnjačka Banja, Serbia, August 26 – 31, 2017, p14.
- 2.26. B. Đ. Glišić, J. Nikodinović-Runić, U. Rychlewska and M. I. Djuran**
Influence of N-terminal amino acid and counter anion in tuning the structure and biological activity of gold(III) complexes with L-histidine-containing dipeptides
54th Meeting of the Serbian Chemical Society, Belgrade, Serbia, September 29 – 30, 2017, MH S - PPP 4, p. 70.
- 2.27. N. D. Savić, B. Đ. Glišić, A. Crochet, K. M. Fromm and M. I. Djuran**
Silver(I) complexes with phenanthrolines: the influence of ligand and silver(I) salt on the complex nuclearity
54th Meeting of the Serbian Chemical Society, Belgrade, Serbia, September 29 – 30, 2017, NH 03, p38.
- 2.28. N. D. Savić, A. Pavić, S. Vojnović, J. Nikodinović-Runić and B. Đ. Glišić**
Metal complexes with potential use in medicine: a case study of gold(III) complexes
8th Conference of the Indian Science Congress Association, Nainital, India, October 14 – 15, 2017, p21.
- 2.29. S. Ž. Đurić, A. Pavić, H. Wadepohl, N. D. Savić, M. Mojićević, S. Vojnović, B. Đ. Glišić, J. Nikodinović-Runić and M. I. Djuran**
Polynuclear silver(I) complexes with 1,5-naphthyridine as efficient antifungal agents
55th Meeting of the Serbian Chemical Society, Novi Sad, Serbia, June 8 – 9, 2018, NH 03, p46.
- 2.30. T. P. Andrejević, N. S. Drašković, B. Đ. Glišić, A. Crochet, K. M. Fromm and M. I. Djuran**
Copper(II) complexes with 4,7-phenanthroline: the influence of the starting copper(II) salt on the complex structure and geometry
55th Meeting of the Serbian Chemical Society, Novi Sad, Serbia, June 8 – 9, 2018, NH 04, p47.

- 2.31. **A. Pavić, S. Ž. Đurić, B. Đ. Glišić, H. Wadepohl, N. D. Savić, M. I. Djuran, M. Mojicevic and J. Nikodinovic-Runic**
Improvement of antifungal potential of itraconazole drug after its coordination to silver(I)
International Summer School, Supramolecular chemistry in Medicine and in Technology, Advances and Challenges, Albena (near Varna), Bulgaria, August 30 – September 3, 2018, poster 1.
- 2.32. **T. P. Andrejević, A. M. Nikolic, B. Đ. Glišić, H. Wadepohl, S. Vojnovic, M. Zlatović, J. Nikodinovic-Runic, I. Opsenica and M. I. Djuran**
Synthesis, structural characterization and biological evaluation of silver(I) complexes with 1-benzyl-1H-tetrazoles
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- 2.33. **N. D. Savić, S. Vojnovic, B. Đ. Glišić, A. Crochet, I. Opsenica, K. M. Fromm, J. Nikodinovic-Runic and M. I. Djuran**
Antifungal silver(I) complexes with 1,7-phenanthroline: possible mechanism of action
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- 2.34. **A. Pavić, B. Glišić, N. D. Savić, S. Vojnović, M. Đuran and J. Nikodinović-Runić**
Uvođenje modela infekcije zebrafish-Candida u početnoj fazi procesa indentifikacije novih antifungalnih jedinjenja
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- 2.35. **A. Pavić, B. Glišić, N. D. Savić, S. Vojnović, M. Đuran and J. Nikodinović-Runić**
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- 2.36. **T. P. Andrejević, S. Ž. Đurić, J. Nikodinović-Runić and B. Đ. Glišić**
Synthesis, structural characterization and antimicrobial activity of silver(I) complexes with aromatic nitrogen-containing heterocycles
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- 2.37. **S. Ž. Đurić, T. P. Andrejević, B. Đ. Glišić and M. I. Đuran**
Polynuclear silver(I) complex with 2,2'-biquinoline: synthesis and structural properties
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- 2.38. **T. P. Andrejević, N. Lj. Stevanović, J. Kljun, S. Vojnović, B. Đ. Glišić, J. Nikodinović-Runić, I. Turel and M. I. Djuran**
Silver(I) complexes with pyridinecarboxylate ligands: synthesis, structural characterization and antimicrobial activity
56th Meeting of the Serbian Chemical Society, Niš, Serbia, June 7 – 8, 2019, NH O 1, p47.

- 2.39. N. S. Drašković, N. Lj. Stevanović, T. P. Andrejević, A. Crochet, B. Đ. Glišić, K. M. Fromm and M. I. Djuran**
Structural characterization of the products formed in the reactions between copper(II) salts and 1,7-phenanthroline
56th Meeting of the Serbian Chemical Society, Niš, Serbia, June 7 – 8, 2019, NH P1, p48.
- 2.40. N. D. Savić, B. Đ. Glišić, B. B. Petković, H. Wadepohl, S. Vojnović, J. Nikodinović-Runić and M. I. Djuran**
Dinuclear silver(I) complexes with *N,N',N'',N'''*-tetrakis(2-pyridylmethyl)-1,4,8,11-tetraazacyclotetradecane: synthesis, characterization and biological evaluation
56th Meeting of the Serbian Chemical Society, Niš, Serbia, June 7 – 8, 2019, NH P5, p52.
- 2.41. N. Lj. Stevanović, B. Warzajtis, T. P. Andrejević, S. Vojnović, B. Đ. Glišić, J. Nikodinović-Runić, U. Rychlewska and M. I. Djuran**
Synthesis and antifungal activity of zinc(II) complexes with aromatic nitrogen-containing heterocycles
56th Meeting of the Serbian Chemical Society, Niš, Serbia, June 7 – 8, 2019, NH P8, p55.
- 2.42. S. Ž. Đurić, M. Mojićević, S. Vojnović, T. P. Andrejević, H. Wadepohl, N. Lj. Stevanović, J. Nikodinović-Runić, M. I. Djuran and B. Đ. Glišić**
Structural analysis and antimicrobial activity of silver(I) complexes with 1,10-phenanthroline based ligands
56th Meeting of the Serbian Chemical Society, Niš, Serbia, June 7 – 8, 2019, NH P9, p56.
- 2.43. T. P. Andrejević, S. Ž. Đurić, N. Lj. Stevanović and B. Đ. Glišić**
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- 2.44. D. Ašanin, B. Glišić, M. Djuran and B. Smit**
A study of the reactions of $[\text{Au}(\text{ethylenediamine})\text{Cl}_2]^+$ complex with L-histidine-containing dipeptides. The influence of N-terminal amino acid on the peptide coordination
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