

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



Family name (Surname): Glišić
First name: Biljana
Date of birth: September 19, 1985
Country and place of birth: Serbia, Kragujevac

Mailing address:

- University of Kragujevac, Faculty of Science, Department of Chemistry,
R. Domanovića 12, 34000 Kragujevac, Serbia
Phone: + 381 34 336 223, ext. 254
Fax: +381 34 335 040
E-mail: biljana.glisic@pmf.kg.ac.rs; bglisic@kg.ac.rs

Nationality: Serbian
Present citizenship: Serbia

EDUCATION

PhD in Chemistry:

- Department of Chemistry, Faculty of Science, University of Kragujevac,
Kragujevac, Serbia, **2008 – 2012.**
- *Supervisor*
Dr. Miloš I. Djuran, Professor of Chemistry, Faculty of Science, University of
Kragujevac and the corresponding member of the Serbian Academy of Sciences
and Arts
- *PhD thesis title:*
„Synthesis and characterization of gold(III) complexes with some dipeptides“
Faculty of Science, University of Kragujevac, **2012.**

BSc in Chemistry:

- Department of Chemistry, Faculty of Science, University of Kragujevac,
Kragujevac, Serbia, **2004 – 2008.**

Secondary School:

- Kragujevac, Serbia, **2000 – 2004.**

Primary School:

- Kragujevac, Serbia, **1992 – 2000.**

POSTDOCTORAL FELLOWSHIPS

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

EMPLOYMENT

Assistant Professor:

- University of Kragujevac, Faculty of Science, Department of Chemistry, **2017 – present.**

Research Fellow:

- University of Kragujevac, Faculty of Science, Department of Chemistry, **2013 – 2017.**

Research Assistant:

- University of Kragujevac, Faculty of Science, Department of Chemistry, **2008 – 2013.**

TEACHING

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

LANGUAGES

- Mother tongue: Serbian
- Other languages:
English (listening, reading, spoken interaction and production, writing)
French (listening, reading)

NATIONAL 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– present.** (Project No. 172036; Project is funded by the Ministry of Education, Science and Technological Development of the Republic of Serbia).
- **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).

INTERNATIONAL PROJECTS

- **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).
- **Bilateral project 2016-2017: Project title:** „Novel platinum-group metal complexes for biomedical applications“ (Department of Chemistry, University of Kragujevac, Serbia and Faculty of Chemistry and Chemical Technology, University of Ljubljana, Slovenia; Project No 24).

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, Molecules, Frontiers in Pharmacology, BioMetals
- 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
- Faculty of Chemistry, University of Gdańsk, Gdańsk, Poland
- International Summer School „Supramolecular Chemistry – Ideas, Design and Methods for Investigations“, Borovets, Bulgaria
- Institute of Molecular Genetics and Genetic Engineering, University of Belgrade
- 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 Medical 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

PROFESSIONAL SOCIETIES

- Serbian Chemical Society
- Serbian Young Chemists Society

PROFESSIONAL SOCIETY COMMITTEES AND SYMPOSIA

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

RESEARCH INTERESTS

- Bioinorganic 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

LIST OF SCIENTIFIC PUBLICATIONS

- **44** publications (see attached list of scientific publications)

CITATIONS (September 30, 2020)

- Google Scholar: **619** (Author *h*-index **14**)
- Scopus: **478** (Author *h*-index **13**)

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 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

REFEREES

1. Professor Dr. Miloš I. Djuran

The corresponding member of the Serbian Academy of Sciences and Arts

University of Kragujevac

Faculty of Science

Department of Chemistry

Radoja Domanovića 12

34000 Kragujevac, Serbia

E-mail: milos.djuran@pmf.kg.ac.rs

2. Professor Dr. Urszula Rychlewska

Faculty of Chemistry

Adam Mickiewicz University

Umultowska 89B

61-614 Poznań, Poland

E-mail: urszular@amu.ed.pl

3. Dr. Jasmina Nikodinović-Runić

Institute of Molecular Genetics and Genetic Engineering

University of Belgrade

Vojvode Stepe 444a, 11000 Belgrade

E-mail: jasmina.nikodinovic@imgge.bg.ac.rs

1. LIST OF SCIENTIFIC PUBLICATIONS OF DR. 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 1.8. **B. Đ. Glišić, U. Rychlewska and M. I. Djuran**
Review article: Reactions and structural characterization of gold(III) complexes with amino acids, peptides and proteins
Dalton Transactions, **41** (2012) 6887-6901.

- 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.
- 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.
- 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.
- 1.12. B. Đ. Glišić and M. I. Djuran**
Review article: 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.
- 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.
- 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.
- 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.
- 1.16. N. D. Savić, B. Đ. Glišić*, H. Wadepohl, A. Pavić, L. Senerović, J. Nikodinović-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.

- 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.
- 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 methylcamphorquinoline ligands with gold(III): X-ray, NMR and DFT investigations
Polyhedron, **105** (2016) 137-149.
- 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.
- 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.
- 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.
- 1.22. **B. Warzajtis, B. Đ. Glišić, N. D. Savić, A. Pavic, S. Vojnovic, A. 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.

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 1.30. S. Rajković, B. Warzajtis, 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
Research Article (12 pages), Article ID 3294948, Volume 2018 (2018)
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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.

- 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
Research Article (12 pages), Article ID 3812050, Volume 2020 (2020)
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.
- 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.
- 1.41. T. P. Andrejević, B. Đ. Glišić* and M. I. Djuran**
Review article: Amino acids and peptides as versatile ligands in the synthesis of antiproliferative gold complexes
Chemistry, **2** (2020) 203-218.
- 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.
- 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.
- 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, DOI:10.1080/00958972.2020.1817415

2. LIST OF SCIENTIFIC COMMUNICATIONS OF DR. 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**
¹H NMR characterization of gold(III) and platinum(II) complexes with tripeptide glycyl-glycyl-L-methionine
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**
¹H NMR study of the reactions of a methionine-containing peptides with different Pd(II) complexes: the selective cleavage of the amide bond and steric effects on the catalyst
47th Meeting of the Serbian Chemical Society, Belgrade, Serbia, March 21, 2009, NH 09.
- 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**
Gold(III) complexes of the histidine-containing peptides: syntheses, spectroscopic and structural characterization
10th International Symposium on Applied Bioinorganic Chemistry, Debrecen, September 25-28, 2009, P42.
- 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)
10th European Biological Inorganic Chemistry Conference, Thessaloniki, June 22-26, 2010, P0-84.
- 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
Golden Jubilee Meeting of the Serbian Chemical Society, Belgrade, Serbia, June 14-15, 2012, PP 2.
- 2.9. B. Đ. Glišić, S. Rajković and M. I. Djuran**
A study of the reactions of the monofunctional $[M(\text{dien})\text{Cl}]^{n+}$ 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
8th International Conference of the Chemical Societies of the South-Eastern European Countries, Belgrade, Serbia, June 27-29, 2013, BS-CB P16.
- 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
52th Meeting of the Serbian Chemical Society, Novi Sad, Serbia, May 29-30, 2015, NH P5.

- 2.15. N. D. Savić, B. Đ. Glišić and M. I. Djuran**
Synthesis and characterization of dinuclear gold(III) complexes with some aromatic nitrogen-containing heterocycles
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. Warzajtis, B. Đ. Glišić, M. Antić, S. Radenković, U. Rychlewska and M. I. Djuran**
Synthesis and characterization of gold(III) complexes with tricyclic aromatic nitrogen-containing heterocycles
53th Meeting of the Serbian Chemical Society, Kragujevac, Serbia, June 10-11, 2016, NH O4.
- 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
53th Meeting of the Serbian Chemical Society, Kragujevac, Serbia, June 10-11, 2016, TH O4.
- 2.19. N. D. Savić, B. Warzajtis, 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
International Summer School, Supramolecular Chemistry, Ideas, Design and Methods for Investigations, Borovets, Bulgaria, June 16-18, 2016, P13.
- 2.20. N. D. Savić, B. Đ. Glišić, B. Warzajtis, 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
International Spring School, Supramolecular Chemistry, Methods, Concepts and Applications, Plovdiv, Bulgaria, April 19-21, 2017, P7.
- 2.23. **S. Rajković, M. D. Živković, B. Đ. Glišić and M. I. Djuran**
Hydrolysis of the amide bond in L-methionine and L-histidine-containing peptides catalyzed by various dinuclear Pt(II) complexes: Dependence of the hydrolysis rate on the nature of the bridging ligand
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
International Meeting on Medicinal and Bio(in)organic Chemistry, Vrnjačka Banja, Serbia, August 26-31, 2017, p10.
- 2.25. **N. D. Savić, B. Đ. Glišić, A. Pavic, B. Warzajtis, S. Vojnovic, J. Nikodinovic-Runic, 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. Nikodinovic-Runic, 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. Pavic, S. Vojnovic, J. Nikodinovic-Runic 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-Runic 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. Nikodinović-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. Vojnović, M. Zlatović, J. Nikodinović-Runic, I. Opsenica and M. I. Djuran**
Synthesis, structural characterization and biological evaluation of silver(I) complexes with 1-benzyl-1*H*-tetrazoles
International Summer School, Supramolecular chemistry in Medicine and in Technology, Advances and Challenges, Albena (near Varna), Bulgaria, August 30 – September 3, 2018, poster 3.
- 2.33. N. D. Savić, S. Vojnović, B. Đ. Glišić, A. Crochet, I. Opsenica, K. M. Fromm, J. Nikodinović-Runic and M. I. Djuran**
Antifungal silver(I) complexes with 1,7-phenanthroline: possible mechanism of action
International Summer School, Supramolecular chemistry in Medicine and in Technology, Advances and Challenges, Albena (near Varna), Bulgaria, August 30 – September 3, 2018, poster 7.
- 2.34. A. Pavić, B. Glišić, N. D. Savić, S. Vojnović, M. Đuran and J. Nikodinović-Runić**
Introduction of infection zebrafish-*Candida* model in the early phase of identification of novel antifungal agents
2nd Congress of Serbian Biologists, Kladovo, Serbia, September 25 – 30, 2018, p231.

- 2.35. A. Pavić, B. Glišić, N. D. Savić, S. Vojnović, M. Đuran and J. Nikodinović-Runić**
Zebrafish model as platform for discovery of novel effective and safe antitumor compounds
2nd Congress of Serbian Biologists, Kladovo, Serbia, September 25 – 30, 2018, p257.
- 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
Sixth Conference of the Young Chemists of Serbia, Belgrade, Serbia, October 07, 2018, HS03 PE 1, p. 49.
- 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
Sixth Conference of the Young Chemists of Serbia, Belgrade, Serbia, October 07, 2018, HS07 PE 5, p. 53.
- 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**
DNA and BSA binding study of polynuclear silver(I) complexes with 1,2-bis(4-pyridyl)ethane/ethene
Seventh Conference of the Young Chemists of Serbia, Belgrade, Serbia, November 2, 2019, MC PP 02, p. 116.
- 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
International Congress on New Trends in Science, Engineering and Technology, Conference of the Young Chemists of Serbia, St. Petersburg, Russia, July 7-9, 2020, p. 12.
- 2.45. **P. Stanić, T. Andrejević, B. Glišić, M. Živković and B. Smit**
Interaction of the silver(I) ion with a ligand of the thiohydantoin moiety
International Congress on New Trends in Science, Engineering and Technology, Conference of the Young Chemists of Serbia, St. Petersburg, Russia, July 7-9, 2020, p. 16.

3. OTHER PUBLICATIONS OF DR. BILJANA Đ. GLIŠIĆ

- 3.1. **B. Đ. Glišić and M. I. Djuran**
Medicinal uses of gold and its compounds. Gold complexes as antiarthritic and antitumor agents
Hemijski pregled, 52 (2011) 71-77.
- 3.2. **B. Đ. Glišić, M. D. Živković, S. Rajković and M. I. Djuran**
Medicinal inorganic chemistry-different aspects of application of the transition metal complexes in medicine
Hemijski pregled, 54 (2013) 30-37.
- 3.3. **B. Đ. Glišić, N. D. Savić and M. I. Djuran**
Medicinal uses of silver and its compounds. Silver(I) complexes as antimicrobial and antitumor agents
Hemijski pregled, 56 (2015) 58-64.

- 3.4. B. Đ. Glišić**
Silver(I) complexes as antimicrobial agents: the influence of the ligand structure on the complex biological activity
Hemijski pregled, **59** (2018) 5-11.
- 3.5. Lj. Z. Bjelović, B. Đ. Glišić, M. D. Živković and T. V. Kanjevac**
Investigation of p-chloroaniline formation in the reactions between different endodontic irrigants
Kragujevac Journal of Science, **41** (2019) 43-52.
- 3.6. J. Gitarić and B. Đ. Glišić**
Chelation therapy – the use of metal chelating agents in medicine
Hemijski pregled, **60** (2019) 54-60.
- 3.7. N. Lj. Stevanović, J. Pavlović, B. Đ. Glišić and M. I. Djuran**
Gold complexes as potential antimalarial agents
Hemijski pregled, **60** (2019) 133-139.
- 3.8. D. M. Gurešić, S. Ž. Đurić, T. P. Andrejević, M. M. Popsavin and B. Đ. Glišić**
Synthesis and spectroscopic characterization of polynuclear silver(I) complex with 2,2'-biquinoline
The University Thought - Publication in Natural Sciences, **10** (2020) 26-30.