

## Dr Ivanka Jerić

### Personal information

Born September 30, 1970, Zagreb, Croatia; maiden name Žigrović; married, one child (2003).

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<https://www.irb.hr/eng/About-RBI/People/Ivanka-Jeric>



### Education

2000 - PhD in chemistry/organic chemistry at the Faculty of Science, University of Zagreb

1997 - M. Sc in chemistry/organic chemistry at the Faculty of Science, University of Zagreb

1994 - B. Sc. degree in chemistry at the Faculty of Science, University of Zagreb

### Current position

2023 – Tenured Senior Scientist (equivalent to Full professor), Ruđer Bošković Institute, Division of Organic Chemistry and Biochemistry

2018 – Assistant Director of the Ruđer Bošković Institute

2016 – Head of the Laboratory for Biomimetic Chemistry, Division of Organic Chemistry and Biochemistry, Ruđer Bošković Institute

### Previous positions

2017-2023: Senior Scientist (equivalent to Full professor), Ruđer Bošković Institute, Division of Organic Chemistry and Biochemistry

2011-2017: Senior Research Associate, Ruđer Bošković Institute, Division of Organic Chemistry and Biochemistry. Work field: organic chemistry, synthesis and characterization of peptidomimetics

2002-2011: Research Associate, Ruđer Bošković Institute, Division of Organic Chemistry and Biochemistry. Work field: organic chemistry, synthesis and characterization of peptidomimetics

2000-2002: Senior Assistant - Scientific Novice, Ruđer Bošković Institute, Division of Organic Chemistry and Biochemistry. Work field: organic chemistry, synthesis and characterization of peptidomimetics

1997-2000: Assistant- Scientific Novice - Ruđer Bošković Institute, Division of Organic Chemistry and Biochemistry. Work field: organic chemistry, synthesis and characterization (NMR spectroscopy and mass spectrometry) of peptides and glycopeptides

1994-1997: Young Assistant- Scientific Novice - Ruđer Bošković Institute, Division of Organic Chemistry and Biochemistry. Work field: organic chemistry, synthesis and characterization of peptides and glycopeptides

### Professional activities and duties

2018 - Assistant Director of the Ruđer Bošković Institute

**2016 – 2018** Assistant Director for structural funds

**2012 –** Coordinator of the RBI Steering committee for structural funds (2012-2018): Dr Jerić coordinates the preparation and implementation of Institute's key infrastructural project "Open scientific infrastructural platforms for innovative applications in economy and society" (O-ZIP) financed by the European Regional Development Fund (ERDF) (value approx. 100 MEUR).

**2009 – 2011** Member of the RBI Committee for evaluation and reorganization: initiated by the RBI Director and aimed to help RBI transformation into scientifically more prominent and coherent institute.

**2008 – 2013** Treasurer of the Croatian Chemical Society

**2010.** Coordinator of the Organizing Committee of RBI "Open days"

**2007-2009** Organizer of the Division OCB seminars

### **Fellowships and awards**

2015. RBI Special award for outstanding contribution and excellent results

2014. Golden Award for patent at the 12<sup>th</sup> International Innovation Exhibition

2012. RBI Annual Award for granted patent.

2010. RBI Annual Award for paper published in journal with high impact factor.

2001. Krka Prize Winner (International award given by pharmaceutical company Krka, Novo Mesto, Slovenia)

2001 University of Science and Technology, Department of Organic Chemistry and Biochemistry, Hong Kong, China (visiting scientist)

1995 Utrecht Institute for Pharmaceutical Sciences, Department for Medicinal Chemistry, Utrecht, The Netherlands (fellowship)

### **Supervision of doctoral and postdoctoral students**

**2016-2020** Doctoral student Mladena Glavaš (organic chemistry); Doctoral Thesis „Enediynes compounds in multicomponent reactions”. Currently PostDoc at the RBI

**2011-2018** Doctoral student Lidija Brkljačić (analytical chemistry); Doctoral Thesis „Synthesis and evaluation of peptide-based hydrazines for derivatization of carbonyl compounds; development of HPLC-MS/MS method”. Currently Professional Advisor at the RBI

**2012-2016** Doctoral student Josipa Suć Sajko (organic chemistry); Doctoral Thesis „Synthesis of peptidomimetics based on hydrazino derivatives of natural amino acids”. Currently Professional Advisor at the RBI

**2005-2010** Doctoral student Matija Gredičak (organic chemistry); Doctoral Thesis „Design and synthesis of enediynes-peptide conjugates”. Currently Group Leader at the RBI

**2016-2018** Postdoc student Kristina Vlahoviček Kahlina; Development of carbohydrate-based building blocks and synthesis of glycomimetics by multicomponent reactions. Currently Professional Advisor at the Faculty of Agronomy, University of Zagreb

**2010-2012** Postdoc student Matija Gredičak; Development of enediynes-based tweezers and cyclic compounds. Currently Group Leader at the RBI

Currently supervisor of 3 PhD students

2004-2023 Supervisor of 11 Diploma Theses: Faculty of Science, Faculty of Chemical Engineering and Technology, Faculty of Food Technology and Biotechnology, University of Zagreb

### Teaching activities

**Teaching title:** Full professor at the University of Rijeka (2021-).

**2010-today:** Postgraduate PhD Study in Organic Chemistry, *Course (elective):* Synthesis of peptides/proteins and their conjugates, University of Zagreb

**2011-today:** PhD Study in Medicinal Chemistry (organized by RBI, University of Rijeka and Fidelta Zagreb. *Course (mandatory):* Methods in peptide, carbohydrate and nucleoside synthesis.

*Course (elective):* Synthesis of peptides/proteins and their conjugates

### Organization of scientific meetings

**2017, June 25-28:** Xth Joint Meeting of Medicinal Chemistry, Dubrovnik, Croatia. Dr. Jerić was member of the Organizing Committee.

**2016, May 11-12:** New Platforms for Molecular Solutions in Research and Development. Dr. Jerić was Coordinator of the Organizing Committee. 2-Days workshop; 106 participants, 22 lectures

**2016, April 24-28:** The 'Game of Epigenomics' Conference, Dubrovnik, Croatia. Dr. Jerić was Coordinator of the Organizing Committee. 5-Days workshop; 98 participants, 34 lectures.

**2015, November 16-18:** The InnoMol Genomics & Bioinformatics Workshop, Zagreb, Croatia. Dr. Jerić was Coordinator of the Organizing Committee. 3-Days workshop; 93 participants, 11 lectures and hands-on session.

**2015, June 1-3:** The InnoMol Molecular Interactions Workshop, Zagreb, Croatia. Dr. Jerić was Coordinator of the Organizing Committee. 3-Days workshop; 87 participants, 8 lectures and hands-on session.

**2015, April 26-29:** 3rd Croatian Microscopy Congress, Zadar, Croatia. Dr. Jerić was Coordinator of the Organizing Committee. 4 Days conference; 94 participants, 32 lectures.

**2014, October 22-24:** The InnoMol Bioimaging Workshop, Zagreb, Croatia. Dr. Jerić was Coordinator of the Organizing Committee. 3-Days workshop; 120 participants, 9 lectures and hands-on session.

**2014, April 7-9:** The InnoMol Proteomics Workshop, Zagreb, Croatia. Dr. Jerić was Coordinator of the Organizing Committee. 3-Days workshop; 82 participants, 11 lectures and hands-on session.

**2003, September 10-15:** 13th European Symposium on Organic Chemistry (ESOC 2003), Cavtat, Croatia. Dr. Jerić was a member of the Organizing Committee. The symposium has brought together more than 400 participants; 13 plenary lectures, 23 invited lectures and 46 oral presentations, 251 poster presentations.

### Memberships

Member of the European Peptide Society: *scientific association (1998-)*

Member of the Croatian Chemical Society: *scientific association (1998-)*

### Additional trainings

RER/0/031 Regional Workshop on Communication the Relevance of Research and Development for Stakeholders' Priorities, 29. 3.-1. 4. 2011. Vienna, Austria

Innovation and Entrepreneurship Workshop, 8. 3. 2012. Zagreb, Croatia (Presenter: Dr Lisa Cowey MBA PG Cert IP T3I Oxford UK)

### Projects

**2023-2027** HRZZ project: "Increasing the conformational diversity of peptides with non-proteinogenic amino acids" **principal investigator**

**2020-2027** ERDF project "Open Scientific Infrastructural Platforms for Innovative Applications in Economy and Society" (O-ZIP) **project coordinator**

**2020-2023** RDI project: "Development of innovative formulations of clinical nutrition" is conducted in collaboration with pharmaceutical company Belupo, **project coordinator**

**2020-2023** RDI project: "ONE – Research and development of the new generation meals for the survival" **associate**

**2016-2018** RDI project: "Cedevita Healthy OTG – Development of a new, healthier and low-calorie vitamin instant drink" **associate**

**2016-2017** CRO-AUT bilateral project: "Expanding the chemical space by glycomimetic structures" **principal investigator**

**2015-2019** HRZZ project: "The assembly of peptidomimetics by multicomponent reactions" **principal investigator**

**2013-2016** FP7- REGPOT-2012-2013-1 project: "Enhancement of the Innovation Potential in SEE through new Molecular Solutions in Research and Development", **WP leader**

**2013-2015** HRZZ project " Nonlinear sparse component analysis with applications in chemometrics and pathology", **associate**

**2007- 2012** MSES project "Chemical modifications of natural compounds", associate; (PI Dr. Lidija Varga Defterdarović (Dr. Štefica Horvat))

**2002-2006** MSES project "Design and synthesis of biologically active peptides, glycopeptides and biomarkers", associate; (PI Dr. Štefica Horvat)

**1996-2002** MSES project "Development of receptor-selective analogs of bioactive peptides", associate (PI Dr. Štefica Horvat)

**1994-1996** MSES project "Synthesis and properties of bioactive glycoconjugates", associate; (PI Dr. Štefica Horvat)

MSES = Ministry of Science, Education and Sports

HRZZ = Croatian Science Foundation

### Invited talks

2024: "Synthesis of non-proteinogenic amino acids, Organska kemija u Hrvatskoj, Croatian Academy of Sciences and Arts, Zagreb, Croatia

2023: "Synthesis of non-proteinogenic amino acids", 8<sup>th</sup> Symposium of chemistry students, Zagreb, Croatia

2021: "Multicomponent reactions towards new amino acid scaffolds", Institute of Chemistry, Technology and Metallurgy, Belgrade, Serbia.

2021 "NMR spectroscopy in elucidation of stereoselectivity of multicomponent reactions" Adriatic NMR, Primošten, Croatia.

2019: "How to mimic Nature" Summer School of Science, Požega, Croatia.

2018. TAIEX Workshop on Amino Acid Analysis in Different Products, Cairo, Egypt.

2017: "Multicomponent approach to natural product-like compounds" XXV. Croatian Meeting of Chemists and Chemical Engineers. Poreč, Croatia.

2016: "Tailoring peptidomimetics for different functions" 22. Slovenian chemical days, Ljubljana, Slovenia

2016: „Functional Peptidomimetics: From Catalysis to Interactions with Biomolecules“ Shanghai Institute of Organic Chemistry, Shanghai, China

2009: "Application of HPLC-MS in biotechnology research" 1st International Symposium of Biotech Students, Zagreb, Croatia

2007: "Enediynes peptidomimetics" XX. Croatian Meeting of Chemists and Chemical Engineers. Zagreb, Croatia

2001: "Glycopeptide mimetics as "puzzles" in understanding the biological phenomena" XXXI. Krka Prize. XI. International symposium. Novo mesto, Slovenia

### List of publications

1. I. Colić, B. Bogović, **I. Jerić\***. The synthesis of oligomers containing alternating C-glycosyl  $\alpha$ -amino acids and proteinogenic  $\alpha$ -amino acids. *New J. Chem.* **48** (2024) 12584 – 12590
2. Luka Kavčič, Gregor Ilc, Baifan Wang, Kristina Vlahoviček-Kahlina, **Ivanka Jerić**, and Janez Plavec,  $\alpha$ -Hydrazino Acid Insertion Governs Peptide Organization in Solution by Local Structure Ordering. *ACS Omega*, **9** (2024), 22175-22185
3. Šijaković Vujičić, Nataša; Suć Sajko, Josipa; Brkljačić, Lidija; Radošević, Petra; **Jerić, Ivanka**; Kurečić, Ivona. Self-Healing Oxalamide Organogelators of Vegetable Oil. *Gels*, **9** (2023), 699
4. Jakas, A., Ayyalasomayajula, R., Cudic, M., **Jerić, I.\*** Multicomponent reaction derived small di- and tri-carbohydrate-based glycomimetics as tools for probing lectin specificity. *Glycoconjugate J.* **39** (2022) 587-597.
5. Suć Sajko, J., **Jerić, I.\*** Synthesis of N $\beta$ -Substituted 1,2-Diazetid-3-ones by the Ugi Reaction Comprising Chiral  $\alpha$ -Hydrazino Acids. *J. Org. Chem.* **87** (2022), 7076-7084.
6. Glavaš, M., Gredičak, M., Štefanić, Z., **Jerić, I.\*** Synthesis of 14-membered enediyne-embedded macrocycles. *Org. Biomol. Chem.* **20** (2022) 3823-3834.
7. Andreas Puškarić, Marko Dunatov, **Ivanka Jerić**, Igor Sabljic, Lidija Androš Dubraja, Room temperature ferroelectric copper(II) coordination polymers based on amino acid hydrazide ligands. *New J. Chem.* **46** (2022) 3504–3511.
8. Kopriva, Ivica; **Jerić, Ivanka**; Popović Hadžija, Marijana; Hadžija, Mirko; Vučić Lovrenčić, Marijana. Nonnegative Least Squares Approach to Quantification of  $^1\text{H}$  Nuclear Magnetic Resonance Spectra of Human Urine. *Anal. Chem.* **93** (2021), 745-751.
9. Jakas, A., Višnjevac, A., **Jerić, I.\*** Multicomponent Approach to Homo- and Hetero- Multivalent Glycomimetics Bearing Rare Monosaccharides. *J. Org. Chem.* **85** (2020), 3766-3787.
10. Glavač, D., **Jerić, I.**, Gredičak, M. Organocatalytic Synthesis of  $\alpha,\alpha$ -Diaryl Substituted  $\alpha$ -Amino Acid Derivatives by an Interrupted Three-Component Ugi Reaction. *Croat. Chem. Acta*, **92** (2019), 203-209.

11. Vlahoviček-Kahlina, K., Štefanić, Z., Vazdar, K., **Jerić, I.**\* N-Alkylated C-Glycosyl Amino Acid Derivatives: Synthesis by a One-Pot Four-Component Ugi Reaction. *Chempluschem*, **85** (2020), 838–844.
12. Čehić, M., Suć Sajko, J., Karačić, Z., Piotrowski, P., Šmidlehner, T., **Jerić, I.**, Schmuck, C., Piantanida, I., and Tomić, S. (2019) The guanidiniocarbonylpyrrole–fluorophore conjugates as theragnostic tools for dipeptidyl peptidase III monitoring and inhibition. *J. Biomol. Struct. Dyn.* (2019) 10.1080/07391102.2019.1664936.
13. Kopriva, I., **Jerić, I.**, Hadžija, M.P., Hadžija, M., Lovrenčić, M.V., Brkljačić, L. Library-assisted nonlinear blind separation and annotation of pure components from a single <sup>1</sup>H nuclear magnetic resonance mixture spectra. *Anal. Chim. Acta*, **1080** (2019) 55–65.
14. K. Vlahoviček-Kahlina, J. Suć Sajko, **I. Jerić,\*** C-Linked Glycomimetic Libraries Accessed by the Passerini Reaction. *Int. J. Mol. Sci.*, **20** (2019) 6236.
15. J. Suć Sajko, V. Ljoljić Bilić, I. Kosalec, **I. Jerić,\*** Multicomponent Approach to a Library of N-Substituted  $\gamma$ -Lactams. *ACS Comb. Sci.* **21** (2019) 28–34.
16. K. Vazdar, **I. Jerić**, Amino- $\beta$ -lactams in Ugi reaction: An efficient method for preparation of functionalized peptidomimetics. *Tetrahedron* **74** (2018) 7495e7506.
17. K. Vlahoviček-Kahlina, M. Vazdar, A. Jakas, V. Smrečki, **I. Jerić,\*** Synthesis of Glycomimetics by Diastereoselective Passerini Reaction. *J. Org. Chem.* **83** (2018) 13146-13156.
18. L. Androš Dubraja, **I. Jerić**, A. Puškarić, J. Bronić, E. Moreno- Pineda, Coordination ability of amino acid hydrazide ligands and their influence on magnetic properties in copper(II) coordination polymers. *CrystEngComm*, **20** (2018) 2396-2403.
19. L. Belužić, I. Grbeša, R. Belužić, J. H. Park, H. K. Kong, N. Kopjar, G. Espadas, E. Sabidó, A. Lepur, F. Rokić, **I. Jerić**, L. Brkljačić, Oliver Vugrek, Knock-down of AHCY and depletion of adenosine induces DNA damage and cell cycle arrest. *Sci. Rep.* **8** (2018) 14012.
20. L. Brkljačić, **I. Jerić,\*** Glutamic acid-related hydrazine reagent for the derivatization of carbonyl compounds. *J. Mass Spectrom.* **53** (2018) 649–654.
21. M. Glavaš, M. Gredičak, **I. Jerić,\*** (2018) Enediyne-Comprising Amino Aldehydes in the Passerini Reaction. *ACS Comb. Sci.* **20** (2018) 151 -155.
22. J. Suć, D. Barić, **I. Jerić\***, Multicomponent synthesis of hydrazino depsipeptides. *RSC Adv.* **6** (2016) 99664-99675.
23. J. Suć, L.-M. Tumor, Lj. Glavaš-Obrovac, M. Jukić, I. Piantanida, **I. Jerić,\*** Impact of  $\alpha$ -hydrazino acids embedded in short fluorescent peptides on peptide interaction with DNA and RNA. *Org. Biomol. Chem.* **14** (2016) 4865–4874.
24. J. Suć, **I. Jerić,\*** Synthesis of hybrid hydrazino peptides: protected vs unprotected chiral  $\alpha$ -hydrazino acids, *SpringerPlus*, **4** (2015) 507-518.
25. I. Kopriva, **I. Jerić**, L. Brkljačić, "Explicit-Implicit Mapping Approach to Nonlinear Blind Separation of Sparse Nonnegative Dependent Sources from a Single-Mixture: Pure Components Extraction from Nonlinear Mixture Mass Spectra," *J. Chemometrics* **29** (2015) 615-626.
26. Z. Kokan, Z. Glasovac, M. Majerić Elenkov, M. Gredičak, **I. Jerić**, S. Kirin, "Backdoor Induction" of Chirality: Asymmetric Hydrogenation with Rhodium(I) Complexes of Triphenylphosphane-Substituted  $\beta$ -Turn Mimetics. *Organometallics* **33** (2014) 4005-4015.
27. I. Kopriva, **I. Jerić**, Blind Separation of Analytes in Nuclear Magnetic Resonance Spectroscopy: New Model for Nonnegative Matrix Factorization. *Chemometr. Intell. Lab. Syst.* **137** (2014) 47–56.
28. M. Ukrainczyk, M. Gredičak, **I. Jerić**, D. Kralj, Interactions of scalenohedral calcite crystals with acidic amino acid derivatives of salicylic acid. *Crystal Growth & Design* **4** (2014) 4335–4346.

29. I. Kopriva, **I. Jerić**, M. Filipović, L. Brkljačić, Empirical Kernel Map Approach to Nonlinear Underdetermined Blind Separation of Sparse Nonnegative Dependent Sources: Pure Components Extraction from Nonlinear Mixtures Mass Spectra. *J. Chemometrics* **28** (2014) 704–715.
30. I. Kopriva, **I. Jerić**, L. Brkljačić, Nonlinear mixture-wise expansion approach to underdetermined blind separation of nonnegative dependent sources, *J. Chemometrics* **27** (2013) 189-197.
31. M. Gredičak, N. Bregović, D. Carić, **I. Jerić**,\* Amino acid-based tweezers: the role of turn-like conformation in the binding of copper(II). *J. Inorg. Biochem.* **116** (2012) 45-52.
32. M. Gredičak, M. Abramić, **I. Jerić**,\* Cyclic Enediynes-Amino Acid Chimeras as New Aminopeptidase N Inhibitors. *Amino Acids* **43** (2012) 2087-2100.
33. M. Ukrainczyk, M. Gredičak, **I. Jerić**, D. Kralj, Interactions of salicylic acid derivatives with calcite crystals, *J. Colloid Interface Sci.* (2012) 296-307.
34. A. Radman, M. Gredičak, I. Kopriva, **I. Jerić**,\* Predicting antitumor activity of peptides by consensus of regression models trained on a small data sample. *Int. J. Mol. Sci.* **12** (2011) 8415-8430.
35. L. Brkljačić, M. Sabalić, I. Salarić, **I. Jerić**, I. Alajbeg, I. Nemet, Development and validation of a liquid chromatography – tandem mass spectrometry method for the quantification of opiorphin in human saliva, *J. Chromatograph. B* **879** (2011) 3920– 3926.
36. M. Gredičak, I. Matanović, B. Zimmermann, **I. Jerić**,\* Bergman cyclization of acyclic amino acid-derived enediynes leads to the formation of 2,3-dihydro-benzo[f]isoindoles. *J. Org. Chem.* **75** (2010) 6219-6228.
37. I. Kopriva, **I. Jerić**, Blind Separation of Analytes in Nuclear Magnetic Resonance Spectroscopy and Mass Spectrometry: Sparseness-Based Robust Multicomponent Analysis. *Anal. Chem.* **82** (2010) 1911-1920.
38. I. Kopriva, **I. Jerić**, Multi-component analysis: Blind extraction of pure components mass spectra using sparse component analysis. *J. Mass Spectrom.* **44** (2009) 1378-1388.
39. I. Kopriva, **I. Jerić**, V. Smrečki, Extraction of multiple pure component H-1 and C-13 NMR spectra from two mixtures: Novel solution obtained by sparse component analysis-based blind decomposition. *Anal. Chim. Acta* **653** (2009) 143-153.
40. **I. Jerić**, Š. Horvat, Screening for glucose-triggered modifications of glutathione, *J. Pept. Sci.* **15** (2009) 540-547.
41. I. Kopriva, **I. Jerić**, A. Cichocki, Blind Decomposition of Infrared Spectra Using Flexible Component Analysis *Chemometr. Intell. Lab. Syst.* **97** (2009) 170-178,
42. M. Gredičak, **I. Jerić**,\* The Sonogashira Cross-Coupling Reaction of Alkenyl Chlorides with Aliphatic Acetylenes, *Synlett.* (2009) 1063-1066.
43. Š. Horvat, M. Kralj, M. Perc, **I. Jerić**, L. Varga-Defterdarović, A. Jakas, M. Roščić, L. Šuman, M. Gredičak, Novel side-chain glucosylated and adamantylated [Asp<sup>2</sup>/Glu<sup>2</sup>]enkephalin analogs: synthesis and in vitro growth inhibition of human tumor cells, *Chem. Biol. Drug. Des.* **73** (2009), 253-257.
44. Gredičak, Matija; Kolonić, Anita; **Jerić, Ivanka**\* Novel chloroenyne-modified amino acid derivatives. *Amino Acids* **35** (2008) 185-194.
45. **Jerić, Ivanka**,\* Chen, Hueih-Min, Synthetic route to enediyne-bridged amino acids. *Tetrahedron Lett.* **48** (2007) 4687-4690.
46. **Jerić, Ivanka**; Momčilović, Marko; Bratoš, Igor; Horvat, Štefica, Synthesis of Trehalose-Centered Dipeptide Esters. *Croat. Chem. Acta* **79** (2006) 261-272.

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48. Horvat, Štefica; **Jerić, Ivanka;** Varga-Defterdarović, Lidija; Roščić, Maja; Horvat, Jaroslav, Ester-linked Glycopeptides as Tools for Studies of Biological Phenomena. *Croat. Chem. Acta* **74** (2001) 787-799.
49. **Jerić, Ivanka;** Horvat, Štefica, Novel Ester-Linked Carbohydrate-Peptide Adducts: Effect of the Peptide Substituent on the Pathways of Intramolecular Reactions. *Eur. J. Org. Chem.* (2001) 1533-1539.
50. **Jerić, Ivanka,\*** Novak, Predrag; Vinković, Mladen; Horvat, Štefica, Conformational analysis of sugar-peptide adducts in the solution state by NMR spectroscopy and molecular modelling. *J. Chem. Soc., Perkin Trans. 2.* **2** (2001) 1944-1950.
51. **Jerić, Ivanka;** Šimičić, Lidija; Stipetić, Marina; Horvat, Štefica, Synthesis and reactivity of the monosaccharide esters of amino acids as models of teichoic acid fragment. *Glycoconjugate J.* **17** (2000) 273-282.
52. Kojić-Prodić, Biserka; Antolić, Snježana; Kveder, Marina; **Žigrović, Ivanka;** Kidrič, Jurka; Horvat, Štefica, Conformational studies in solid state and solution of protected C-terminal dipeptide fragment (Boc-Phe-Pro-HN<sub>2</sub>) of morphiceptin. *Croat. Chem. Acta* **72** (1999) 259-277.
53. **Žigrović, Ivanka;** Kidrič, Jurka; Horvat, Štefica, Influence of glycation on cis/trans isomerization and tautomerization in novel morphiceptin-related Amadori compounds. *Glycoconjugate J.* **15** (1998) 563-570.
54. **Žigrović, Ivanka,\*** Versluis, Cornelis; Horvat, Štefica; Heerma, Wigger, Mass Spectrometric Characterization of Amadori Compounds Related to the Opioid Peptide Morphiceptin. *Rapid Commun. Mass Spectrom.* **12** (1998) 181-187.
55. Heerma, W.; Versluis, C.; de Koster, C.G.; Kruijtzter, J.A.W.; **Žigrović, Ivanka;** Liskamp, R. M. J, Comparing Mass Spectrometric Characteristics of Peptides and Peptoides. *Rapid Commun. Mass Spectrom.* **10** (1996) 459-464.
56. Kamenar, B.; Stefanović, A.; **Žigrović, I.** Crystal structure of bis(N-methyl-3-etoxy-salicylideneiminato)copper (II). *Z. Kristallogr.* **210** (1995) 662-664.