CURRICULUM VITAE

Personal details:

Name and Surname: Marija Nišavić

Address: St. St. Blichers Gade, 8000 Aarhus, Denmark

Telephone number: +45 5031 9000

Birth Date: 25.12.1985.

E-mail: marija.nisavic@gmail.com

Education:

2000 – 2004	Gymnasium Lazarevac
2004 – 2011	Faculty of Chemistry, Department of Biochemistry, University of Belgrade, Serbia (**MSc** equivalent)
2011 – 2017	**PhD** at Faculty of Chemistry, Department of Biochemistry, University of Belgrade, Serbia
March 2018 – March 2020	**Postdoc** at Department of Biochemistry and Molecular Biology, University of Southern Denmark
March 2020 - present	**Postdoc** at Department of Chemistry, Aarhus University, Denmark

Relevant working experience:

2012 – 2018	Research Associate at "Vinča" Institute of Nuclear Sciences
2018 – 2020	Postdoctoral Researcher at Department of Biochemistry and Molecular Biology, University of Southern Denmark, Odense Postdoctoral Researcher at Department of

2020 - present Chemistry, Aarhus University, Denmark

Professional Society Affiliations:

Serbian Biochemical Society, Serbian Chemical Society, Serbian Biophysics Society, Croatian Biophysics Society

Publications:

1. **Nišavić M.**, Janjć G., Hozić A., Petković M., Milčić M., Vujčić Z. and Cindrić M. Positive and negative nano-electrospray mass spectrometry of ruthenated serum albumin supported by docking studies: an integrated approach towards defining metallodrug binding sites on proteins. *Metallomics* (2018) doi: 10.1039/C7MT00330G

2. Cocić D., Jovanović S.**, Nišavić M.**, Baskić D., Todorović D., Popović S., Bugarčić Ž., Petrović B., New dinuclear palladium(II) complexes: studies of the nucleophilic substitution reactions, DNA/BSA interactions and cytotoxic activity. *Journal of Inorganic Biochemistry,* 175 (2017) pp. 67-79 .

3. Dimkić I., Stanković S.**, Nišavić M.**, Petković M., Ristivojević P., Fira D. and Berić T., The Profile and Antimicrobial Activity of *Bacillus* Lipopeptide Extracts of Five Potential Biocontrol Strains. *Frontiers in Microbiol*ogy, (2017) 8:925. doi: 10.3389/fmicb.2017.00925

4. **Nišavić M*.,** Hozic A.*, Hameršak Z., Radić M., Butorac A., Duvnjak M., Cindrić M., High-efficiency microflow and nanoflow negative electrospray ionization of peptides induced by gas-phase proton transfer reactions, *Analytical Chemistry,* 89 (2017) pp. 4847-4854.

5. Butorac A., Solak-Mekić M., Hozić A., Diminić J., Gamberger D., **Nišavić M.**, Cindrić M., Benefits of selective peptide derivatization with sulfonating reagent at acidic pH for facile matrix-assisted laser desorption/ionization de novo sequencing, *Rapid Communications in Mass Spectrometry*, 30 (2016), pp. 1687-1694.

6. Rakić-Kostić T., Bogojeski J., Popović I., Nešić M., Rajčić B., **Nišavić M.**, Petković M., Veličković S., Experimental design for optimizing MALDI-TOF-MS analysis of palladium complexes, *Hemijska Industrija,* pp 38-38. DOI: 10.2298/HEMIND160614038R, Paper accepted (2016).

7. **Nišavić M.**, Stoiljković M., Crnolatac I., Milošević M., Rilak A., Masnikosa R., Highly water-soluble ruthenium(II) terpyridine coordination compounds form stable adducts with blood-borne metal transporting proteins, *Arabian Journal of Chemistry*, In press, DOI: 10.1016/j.arabjc.2016.07.021, (2016).

8. **Nišavić M.**, Masnikosa R., Butorac A., Perica K., Rilak A., Korićanac L., Hozić A., Petković M., Cindrić M., Elucidation of the binding sites of two novel Ru(II) complexes on bovine serum albumin, *Journal of Inorganic Biochemistry*, 159 (2016), pp. 89–95.

9. Vukićević I., Nešić M., **Nišavić M.**, Vranješ M., Radetić T., Šaponjić Z., Masnikosa R., Petković M., Suitability of TiO2 nanoparticles and prolate nanospheroids for laser desorption/ionization mass spectrometric characterization of bipyridine-containing complexes. *Materials Letters* 150 (2015): 84 - 88.

10. Radisavljević M., Kamčeva T., Vukićević I., **Nišavić M**., Milovanović M., Petković M. Sensitivity and accuracy of organic matrix-assisted laser desorption and ionisation of $FeCl_3$ is higher than in matrix-free aproach. *European Journal of Mass Spectrometry* 19 (2013): 77 - 89.

11. Rajić B., Dimitrijević S., Petković M., **Nišavić M.**, Cindrić M., Veljković F. and Veličković S. Gold chloride cluster ions generated by laser ablation. *Optical and Quantum Electronics* 50:218 (2018)

12. Gulicovski J., Nenadović S., Kljajević J., Mirković M., **Nišavić M.**, Kragović M., Stojmenović M. Geopolymer/CeO2 as solid electrolyte for IT-SOFC. *Polymers* 12 1 (2020): 248.

13. SDU paper 1

14. SDU paper 2

15. SDU paper 3

Conferences:

1. **Nišavić M.**, Hozić A., Popović I., Petković M. and Cindrić M., (2016) Positive/negative ion mode nano-electrospray ionization mass spectrometry of metallated peptides, 13th International school of biophysics, Croatia, 2016, pp125.

2. Popović I., Nešic M., **Nišavić M.**, Petković M., (2016) Testing the best matrix/analyte combination for MALDI TOF mass spectrometric detection of steroid hormones, amino acids, vitamins and carbohydrates, 41st FEBS Congress, P-MIS-006, Kusadasi, Turkey.

3. Rajčić B., Rakić-ć T., Bogojeski J., Popović I., Nešić M., **Nišavić M.**, Petković M., Veličković S., Design experiments methodology in the optimization of MALDI-TOF-MS instrumental parameters for the analysis of [Pd(terpy)Cl]Cl · 2H2O, 53rd Meeting of the Serbian Chemical Society, Kragujevac.

4. **Nišavić M.**, Masnikosa R., Petković M., Cindrić M. (2015) HPLC, ESI qTOF and MALDI TOFTOF reveal target sequence and binding stoichiometry of novel Ru (II) complexes to serum albumin. FEBS3+ Meeting Molecules of Life, Portorož, Slovenia. PI-26, p 148.

5. Masnikosa R., **Nišavić M.**, Rilak A., Matković M., Crnolatac I. (2015) The binding of novel water-soluble terpyridine complexes with anticancer activity to human serum transport proteins as

seen through spectroscopy and calorimetry. 9th Summer Course for Mass Spectrometry in Biotechnology and Medicine, CAAS Dubrovnik, Croatia. P31, p 75.

6. Dimkić I., **Nišavić M**., Petković M., Berić T., Fira D., Stanković S., (2015). Identification of antimicrobial lipopeptides of *Bacillus* strains obtained by different ways of extraction using MALDI-TOF mass spectrometry. 6th FEMS Congress of European Microbiologists, Maastricht, Netherlands, e-Abstracts Book, FEMS-0908.

7. Nešić M., Drakulić D., Rilak A., **Nišavić M.**, Popović I., Radoičić M., Šaponjić Z., Petković M., (2015). Preparation of nanosystem for fast screening of serum protein which bind metallo-drugs. 9th CEEPC, Poznan, Poland.

8. Rajcic B., Dimitrijević S., Petković M., **Nišavić M**., Cindrić M., Veljković F. and Veličković S. (2017). Gold chloride cluster ions generated by vacuum laser ablation. VI International School and Conference on Photonics, Belgrade, Serbia. LMI3, p 171.

Courses/Short-term Missions Attended:

25 – 26.07.2013.	COST Training Course on Hystopathology and Clinical Aspects of MALDI Imaging, Helmholtz Zentrum, Munich, Germany
26 – 28.05.2014.	2nd EU-COST seed course on Imaging Mass Spectrometry, FOM Institute AMOLF, Amsterdam, Netherlands
01 – 30.06.2014.	Short Scientific Mission on MALDI Imaging at FOM Institute AMOLF, Amsterdam, Netherlands
13.02 – 13.03.2015.	Visiting scholar at Laboratory for System Biomedicine and Centre for Proteomics and Mass spectrometry, Rudjer Boskovic Institute, Zagreb, Croatia
01.05 – 01.07.2015.	Short Scientific Mission at Laboratory for System Biomedicine and Centre for Proteomics and Mass spectrometry, Rudjer Boskovic Institute, Zagreb, Croatia
01.12.2015 – 15.02.2016	Apli-Meta Pharma project at Laboratory for System Biomedicine and Centre for Proteomics and Mass spectrometry, Rudjer Boskovic Institute, Zagreb,Croatia
01.05 – 15.07.2016	Visiting scholar at Laboratory for System

01 – 10.09.2016.	Biomedicine and Centre for Proteomics and Mass spectrometry, Rudjer Boskovic Institute, Zagreb, Croatia 13th Greta Pifat Mrzljak School of Biophysics, Croatia
01.10 – 15.12.2016.	Part-time volunteer at Institute of Court Medicine, Belgrade, Serbia

Stipends/grants:

One FEBS, one EBSA and five COST stipends.

Approved Lundbeck 2 years postdoc grant for project "Characterization of the pathology-inducing alpha-synuclein aggregates in diseased human brain" (I returned it)

Teaching:

Teaching instructor - laboratory course Physical Biochemistry – SDU, Odense, November 2018 and 2019
Help in supervising: - three bachelor student theses – SDU, Odense, Feb – June 2019, Sep – Dec 2019
- two master student theses – SDU, Odense, 2019/2020
- co-supervising one master student ISA project, Sept – Dec 2020
Invited lecture for PhD course in proteomics – Department of Molecular Medicine, Aarhus University, March 2020

Relevant hands-on experience: LC – Waters (UPLC/HDX manager), Thermo easy n-LC, MS: Synapt G2, MALDI - Voyager and AB Sciex 4800, Orbitraps -QEHF and Lumos; FAIMS

Other activities:

- Participation in "Otvorena vrata Instituta Vinča" manifestation for promoting science.
- Participation in workshops, organized for high school talents at Vinča Institute.
- Participation in workshop at 13th Greta Pifat Mrzljak School of Biophysics, as a demonstrator.
- Reviewer for *Journal of Inorganic Biochemistry*.

Languages:

Serbian (native), English and Danish (beginner level)

Referees:

1. Prof. Thomas Poulsen, Department of Chemistry, Aarhus University, E-mail: thpou@chem.au.dk (postdoc 2 PI)
2. Prof. Johan Palmfeldt, Department of Molecular Medicine, Aarhus University, E-mail: johan.palmfeldt@clin.au.dk
3. Prof. Thomas J.D. Jørgensen, Department for Biochemistry and Molecular Biology, University of Southern Denmark. E-mail: tjdj@bmb.sdu.dk (postdoc 1 PI)
4. Prof. Peter Højrup, Department for Biochemistry and Molecular Biology, University of Southern Denmark. E-mail: php@bmb.sdu.dk (postdoc 1 PI)
5. Dr Mario Cindrić, Centre for Proteomics and Mass Spectrometry, „Rudjer Bošković“ Institute, Zagreb, Croatia. E-mail: mcindric@irb.hr (PhD supervisor)
6. Dr Marijana Petković, Laboratory of Atomic Physics, „Vinča“ Institute of Nuclear Sciences, Belgrade, Serbia; CQM - Centro de Química da Madeira, Portugal. E-mail: marijana.petkovic.71@gmail.com (Group leader at „Vinča“ Institute)