

## PERSONAL INFORMATION

## Marija Genčić (maiden name Denić)



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Sex Female | Date of birth 01/09/1985 | Nationality Serbian

## WORK EXPERIENCE

- June 2016 – Assistant Professor and Researcher  
Faculty of Science and Mathematics, University of Niš, Serbia; [www.pmf.ni.ac.rs](http://www.pmf.ni.ac.rs)
- Teaching: lectures on *Preparative Organic Chemistry*, *Nomenclature of Organic Compounds*, *Medicinal Chemistry*, *Organic Chemistry in Everyday Life* and *Organic Pollutants*
  - Research: isolation/synthesis, spectral characterization and evaluation of biological activities of natural products; development of new analytical methods for structure elucidation of natural products in inseparable complex mixtures; chemotaxonomy; synthesis of potentially bioactive ferrocene-containing molecules
- April 2014 – June 2016 Teaching Assistant and Researcher  
Faculty of Science and Mathematics, University of Niš, Serbia; [www.pmf.ni.ac.rs](http://www.pmf.ni.ac.rs)
- Teaching: laboratory practice in *Organic Synthesis*, *Preparative Organic Chemistry* and *Organic Chemistry*
- February 2013 – April 2014 Research Associate  
Faculty of Science and Mathematics, University of Niš, Serbia; [www.pmf.ni.ac.rs](http://www.pmf.ni.ac.rs)
- February 2011 – February 2013 Junior Researcher  
Faculty of Science and Mathematics, University of Niš, Serbia; [www.pmf.ni.ac.rs](http://www.pmf.ni.ac.rs)
- February 2010 – January 2011 PhD Student - Researcher  
Faculty of Science and Mathematics, University of Niš, Serbia; [www.pmf.ni.ac.rs](http://www.pmf.ni.ac.rs)  
Scholarship of the Ministry of Education and Science of the Republic of Serbia for the inclusion of PhD students in research projects
- October 2004 – September 2009 Student associate  
Petnica Science Center, Valjevo, Serbia; [www.petnica.rs](http://www.petnica.rs)

## EDUCATION

- August 2016 – January 2017 Postdoc in Chemistry – Organic and medicinal chemistry  
Postdoctoral studies at SynBioC Research Group, Faculty of Bioscience Engineering, Ghent University, Belgium; [www.ugent.be/bw/doct/en/research-groups/synbioc](http://www.ugent.be/bw/doct/en/research-groups/synbioc)  
Scholarship of the Ministry of Education, Science and Technological Development of the Republic of Serbia for postdoctoral
- Research project title: "New 2-azetidinone-ferrocene hybrid-based  $\beta$ -lactamase inhibitors", supervised by professor Dr. Matthias D'hooghe
- 2009 – 2015 PhD in Chemistry – Organic chemistry and biochemistry  
Doctoral studies at Faculty of Science and Mathematics, University of Niš, Serbia
- Thesis title: "Isolation, synthesis and biological activity of secondary metabolites from selected plant species from the genera *Lycopus* (Lamiaceae) and *Inula* (Asteraceae)", supervised by professor Dr. Niko Radulović; Average grade: 10.00/10.00
- 2004 – 2009 BSc degree in Chemistry  
Studies of chemistry at Faculty of Science and Mathematics, University of Niš, Serbia
- Thesis title: "2-Pentylpiperidine, a new alkaloid in *Conium maculatum* L: synthesis and spectral characterization", supervised by professor Dr. Niko Radulović; Average grade: 9.96/10.00
- 2000 – 2004 High School "Bora Stanković", Niš, Serbia

## PERSONAL SKILLS

Mother tongue(s) Serbian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Communicational / organisational skills

- Good communication skills acquired through experience as a assistant professor, teaching assistant and researcher, as a mentor of summer research projects of high-school students at the Chemistry programme at “Petnica Science Center”, as well as, in training Serbian high-school students for the “International Chemistry Olympiad”
- Good organisation skills gained through the organisation of:
  - popular science lectures and summer research internships under the auspices of “Serbian Young Chemists' Club”
  - state and local competitions in chemistry for high-school students
- Responsible, dependable, teachable, initiative, persistent, dedicated, cooperative, people-oriented, communicative, well-organized, multitasking, optimistic

Job-related skills

- Good command of general synthetic, separation, isolation and purification techniques
- Good command of methods for the elucidation of the structure of organic compounds (UV-Vis, GC-MS, IR and NMR)
- Good expertise in the analysis of essential oils and plant waxes (using GC-MS, GC-FID and 1D- and 2D-NMR)
- Good skills in biological activity evaluation (e.g. inhibition of acetylcholinesterase, anti-inflammatory, antinociceptive and anxiolytic activity)

Computer skills

- Good computer expertise with MS Office tools (Word, Excel, Power Point, etc) and chemistry dedicated software (ChemBioOffice, MestReNova, WinDNMR, AMDIS/NIST, Origin)
- Good command of web research tools (SciFinder, Scopus)
- Good command in multivariate statistical analysis (XLSTAT)

Driving licence

- B

## ADDITIONAL INFORMATION

Projects

- National research projects:
- Secondary Metabolites: Chemical Composition, Antimicrobial and Antioxidant Activity (02/2010 – 12/2010);
  - Combinatorial Libraries of Heterogeneous Catalysts, Natural Products, Modified Natural Products and Analogues: The Approach to New Biologically Active Agents (01/2011 – 12/2019).

Memberships

- Serbian Young Chemists' Club
- Serbian Society for Phytochemistry and Phytomedicine

## ANNEXES

- Publications in international SCI-journals with peer review;
- Other Publications;
- Honours and Awards.

**Publications in international SCI-journals with peer review**

1. Stojanović-Radić Z, Dimitrijević M, **Genčić M**, Pejić M, Radulović N (2020) Anticandidal activity of *Inula helenium* root essential oil: Synergistic potential, anti-virulence efficacy and mechanism of action. *Ind Crop Prod* 149: 112373. ISSN 0926-6690; DOI: [10.1016/j.indcrop.2020.112373](https://doi.org/10.1016/j.indcrop.2020.112373); IF<sub>2019</sub>: 4.244; M21 (rank: 2/13).
2. Pejić M, Stojanović-Radić Z, **Genčić M**, Dimitrijević M, Radulović N (2020) Anti-virulence potential of basil and sage essential oils: Inhibition of biofilm formation, motility and pyocyanin production of *Pseudomonas aeruginosa* isolates. *Food Chem Toxicol* 141: 111431. ISSN 0278-6915; DOI: [10.1016/j.fct.2020.111431](https://doi.org/10.1016/j.fct.2020.111431); IF<sub>2019</sub>: 4.679; M21 (rank: 14/139).
3. Denić M, Sunarić S, **Genčić M**, Živković J, Jovanović T, Kocić G, Jonović M (2019) Maternal age has more pronounced effect on breast milk retinol and  $\beta$ -carotene content than maternal dietary pattern. *Nutrition* 65: 120-125. ISSN: 0899-9007; DOI: [10.1016/j.nut.2019.02.019](https://doi.org/10.1016/j.nut.2019.02.019); IF<sub>2017</sub>: 3.591; M21 (rank: 22/83).
4. Radulović NS, **Genčić MS**, Stojanović NM, Randjelović PJ, Baldovini N, Kurteva V (2018) Prenylated  $\beta$ -diketones, two new additions to the family of biologically active *Hypericum perforatum* L. (Hypericaceae) secondary metabolites. *Food Chem Toxicol* 118: 505-513. ISSN: 0278-6915; DOI: [10.1016/j.fct.2018.05.009](https://doi.org/10.1016/j.fct.2018.05.009); IF<sub>2017</sub>: 3.977; M21a (rank: 10/133).
5. Schneider O, Ilić-Tomić T, Rückert C, Kalinowski J, **Genčić MS**, Živković MZ, Stanković N, Radulović NS, Vasiljević B, Nikodinović-Runić J, Zotchev SB (2018) Genomics-based insights into the biosynthesis and unusually high accumulation of free fatty acids by *Streptomyces* sp. NP10. *Front Microbiol* 9: 1302. ISSN: 1664-302X; DOI: [10.3389/fmicb.2018.01302](https://doi.org/10.3389/fmicb.2018.01302); IF<sub>2018</sub>: 4.259; M21 (rank: 32/133).
6. Radulović NS, **Genčić MS**, Stojanović NM, Randjelović PJ, Stojiljković NI (2017) Toxic essential oils. Part V: Behaviour modulating and toxic properties of thujone and thujone-containing essential oils of *Salvia officinalis* L., *Artemisia absinthium* L., *Thuja occidentalis* L. and *Tanacetum vulgare* L. *Food Chem Toxicol* 105: 355-369. ISSN: 0278-6915; DOI: [10.1016/j.fct.2017.04.044](https://doi.org/10.1016/j.fct.2017.04.044); IF<sub>2017</sub>: 3.977; M21a (rank: 10/133).
7. Glišić BD, Hoffmann M, Warzajtis B, **Genčić MS**, Blagojević PD, Radulović NS, Rychlewska U, Djuran MI (2016) Selectivity of the complexation reactions of four regioisomeric methylcamphorquinoxaline ligands with gold(III): X-ray, NMR and DFT investigations. *Polyhedron* 105: 137-149. ISSN: 0277-5387; DOI: [10.1016/j.poly.2015.12.009](https://doi.org/10.1016/j.poly.2015.12.009); IF<sub>2015</sub>: 2.108; M22 (rank: 19/46).
8. Vukićević DR, Stevanović DD, **Genčić MS**, Blagojević PD, Radulović NS (2016) Essential-Oil Constituents and Alkanes of *Cephalaria ambrosioides* Roem. & Schult. (Family Caprifoliaceae, Subfamily Dipsacaceae) and (Chemo)taxonomic Discernment of the Subfamilies Dipsacaceae and Morinaceae. *Chem Biodivers* 13(2): 198-209. ISSN: 1612-1872; DOI: [10.1002/cbdv.201500050](https://doi.org/10.1002/cbdv.201500050); IF<sub>2014</sub>: 1.515; M22 (rank: 76/157).
9. **Genčić MS**, Radulović NS (2015) A note on the biosynthesis of long-chain 3-methyl-2-alkanones from the essential oil of *Inula helenium* L. (Asteraceae). *Facta Universitatis, Series: Physics, Chemistry and Technology* 13(2): 83-89. ISSN: 0354-4656; DOI: [10.2298/FUPCT1502083G](https://doi.org/10.2298/FUPCT1502083G); M51.
10. **Genčić MS**, Radulović NS (2015) Lanthanide-induced shift reagents enable structural elucidation of natural products in inseparable complex mixtures - The case of elemental from *Inula helenium* L. (Asteraceae). *RSC Adv* 5: 72670-72682. ISSN: 2046-2069; DOI: [10.1039/C5RA13109J](https://doi.org/10.1039/C5RA13109J); IF<sub>2014</sub>: 3.840; M21 (rank: 33/157).
11. Ilić-Tomić T, **Genčić MS**, Živković MZ, Vasiljević B, Djokić L, Nikodinović-Runić J, Radulović NS (2015) Structural diversity and possible functional roles of free fatty acids of the novel soil isolate *Streptomyces* sp. NP10. *Appl Microbiol Biot* 99(11): 4815-4833. ISSN: 0175-7598; DOI: [10.1007/s00253-014-6364-5](https://doi.org/10.1007/s00253-014-6364-5); IF<sub>2015</sub> = 3.376; M21 (rank: 41/161).
12. Mihajlov-Krstev TM, **Denić MS**, Zlatković BK, Stankov-Jovanović VP, Mitić, VD, Stojanović GS, Radulović NS (2015) Inferring the origin of rare fruit distillates from compositional data using multivariate statistical analyses and the identification of new flavor constituents. *J Sci Food Agr* 95(6): 1217-1235. ISSN: 0022-5142; DOI: [10.1002/jsfa.6810](https://doi.org/10.1002/jsfa.6810); IF<sub>2015</sub>: 2.076; M21 (rank: 6/57).
13. Pejović A, **Denić MS**, Stevanović D, Damljanović I, Vukićević M, Kostova K, Tavlinova-Kirilova M, Randjelović P, Stojanović NM, Bogdanović GA, Blagojević P, D'hooghe M, Radulović NS, Vukićević RD (2014) Discovery of anxiolytic 2-ferrocenyl-1,3-thiazolidin-4-ones exerting GABA<sub>A</sub> receptor interaction via the benzodiazepine-binding site. *Eur J Med Chem* 83: 57-73. ISSN: 0223-5234; DOI: [10.1016/j.ejmech.2014.05.062](https://doi.org/10.1016/j.ejmech.2014.05.062); IF<sub>2014</sub>: 3.447; M21 (rank: 11/59).
14. Radulović NS, **Denić MS**, Stojanović-Radić ZZ (2014) Synthesis of small combinatorial libraries of natural products: Identification and quantification of new long-chain 3-methyl-2-alkanones from the root essential oil of *Inula helenium* L. (Asteraceae). *Phytochem Analysis* 25(1): 75-80. ISSN: 0958-0344; DOI: [10.1002/pca.2466](https://doi.org/10.1002/pca.2466); IF<sub>2013</sub>: 2.450; M21 (rank: 53/199).
15. Denić MS, Sunarić SM, Kesić LJ, Minić IZ, Obradović RR, **Denić MS**, Petrović MS (2013) RP-HPLC assay of doxycycline in human saliva and gingival crevicular fluid in patients with chronic periodontal disease. *J Pharmaceut Biomed* 78-79: 170-175. ISSN: 0731-7085; DOI: [10.1016/j.jpba.2013.02.009](https://doi.org/10.1016/j.jpba.2013.02.009); IF<sub>2012</sub>: 2.947; M21 (rank: 19/75).
16. Radulović NS, **Denić MS** (2013) Essential oils from the roots of *Echinops bannaticus* Rochel ex Schrad. and *Echinops sphaerocephalus* L. (Asteraceae): Chemotaxonomic and biosynthetic aspects. *Chem Biodivers* 10(4): 658-676. ISSN: 1612-1872; DOI: [10.1002/cbdv.201200330](https://doi.org/10.1002/cbdv.201200330); IF<sub>2012</sub>: 1.808; M22 (rank: 59/152).

17. Stevanović DD, Pejović AZ, Damljanović IS, Vukicević MD, Dobrikov G, Dimitrov V, **Denić MS**, Radulović NS, Vukićević RD (2013) Electrochemical phenylselenoetherification as a key step in the synthesis of ( $\pm$ )-curcumene ether. *Helv Chim Acta* 96(6): 1103-1110. ISSN: 0018-019X; DOI: [10.1002/hlca.201200610](https://doi.org/10.1002/hlca.201200610); IF<sub>2013</sub>: 1394; M22 (rank: 75/148).
18. **Denić M**, Blagojević P, Radulović N (2013) Synthetic approaches to coniine and other 2-alkyl piperidines. *Facta Universitatis, Series: Physics, Chemistry and Technology* 11(1): 1-26. ISSN: 0354-4656; DOI: [10.2298/FUPCT1301001D](https://doi.org/10.2298/FUPCT1301001D); M52.
19. Radulović N, Đorđević N, **Denić M**, Martins Gomes Pinheiro M, Dias Fernandes P, Boylan F (2012) A novel toxic alkaloid from poison hemlock (*Conium maculatum* L., Apiaceae): Identification, synthesis and antinociceptive activity. *Food Chem Toxicol* 50(2): 274-279. ISSN: 0278-6915; DOI: [10.1016/j.fct.2011.10.060](https://doi.org/10.1016/j.fct.2011.10.060); IF<sub>2012</sub>: 3.010; M21a (rank: 12/124).
20. Stojanović-Radić Z, Čomić Lj, Radulović N, Blagojević P, **Denić M**, Miltojević A, Rajković J, Mihajilov-Krstev T (2012) Antistaphylococcal activity of *Inula helenium* L. root essential oil: eudesmane sesquiterpene lactones induce cell membrane damage. *Eur J Clin Microbiol* 31(6): 1015-1025. ISSN: 0934-9723; DOI: [10.1007/s10096-011-1400-1](https://doi.org/10.1007/s10096-011-1400-1); IF<sub>2012</sub>: 3,024; M22 (rank: 25/70).
21. Radulović NS, **Denić M**, Stojanović-Radić Z, Skropeta D (2012) Fatty and volatile oils of the gypsywort *Lycopus europaeus* L. and the Gaussian-like distribution of its wax alkanes. *J Am Oil Chem Soc* 89(12): 2165-2185. ISSN: 0003-021X; DOI: [10.1007/s11746-012-2118-7](https://doi.org/10.1007/s11746-012-2118-7); IF<sub>2011</sub>: 1.773; M22 (rank: 41/128).
22. Radulović NS, **Denić M**, Stojanović-Radić Z (2010) Antimicrobial phenolic abietane diterpene from *Lycopus europaeus* L. (Lamiaceae). *Bioorg Med Chem Lett* 20(17): 4988-4991. ISSN: 0960-894X; DOI: [10.1016/j.bmcl.2010.07.063](https://doi.org/10.1016/j.bmcl.2010.07.063); IF<sub>2010</sub>: 2.661; M22 (rank: 19/56).
23. Gutman I, Arsić B, **Denić M**, Stojanović I (2006) Benzoid isomers with greatest and smallest Kekulé structure counts. *J Serb Chem Soc* 71(7): 785-791. ISSN: 0352-5139; DOI: [10.2298/JSC0607785G](https://doi.org/10.2298/JSC0607785G); IF<sub>2006</sub>: 0.423; M23 (rank: 101/124).

#### Other Publications

1. **Genčić MS**, Radulović NS (2015) A note on the biosynthesis of long-chain 3-methyl-2-alkanones from the essential oil of *Inula helenium* L. (Asteraceae). *Facta Universitatis, Series: Physics, Chemistry and Technology* 13(2): 83-89. ISSN: 0354-4656; DOI: [10.2298/FUPCT1502083G](https://doi.org/10.2298/FUPCT1502083G); M51.
2. **Denić M**, Blagojević P, Radulović N (2013) Synthetic approaches to coniine and other 2-alkyl piperidines. *Facta Universitatis, Series: Physics, Chemistry and Technology* 11(1): 1-26. ISSN: 0354-4656; DOI: [10.2298/FUPCT1301001D](https://doi.org/10.2298/FUPCT1301001D); M52.

#### Honours and Awards

- Supervisor of Jelena Aksić's MS thesis that won Nenad M. Kostić Foundation Award for the best university degree or master's thesis in chemistry at the universities in Serbia in 2019
- 2017 L'Oréal-UNESCO for Women in Science national scholarships, 15/12/2017
- Annual Award of the Serbian Chemical Society for outstanding success during the studies, 03/12/2010
- Silver Sign of the University of Niš, as the best-graduated student of the University for the 2008/09 school year in the field of Mathematics and Natural Sciences, 15/06/2010
- Nenad M. Kostić Foundation Award for the best master's thesis in chemistry at the universities in Serbia for the 2009/10 school year, 18/05/2010
- Award – "The Best Student at Faculty of Science and mathematics in 2009" given by The City of Niš, 01/11/2010
- The Eurobank EFG Scholarship for one hundred top undergraduate students of Serbian state universities, 15/12/2008
- Scholarship of the Foundation of Republic of Serbia for Development of Young Talents in Science and Arts (2004-2010)
- Award – "The Best Student at Faculty of Science and mathematics in 2007" given by The City of Niš, 01/11/2008
- The Second Prize at the First Pilot Regional Contest for Young Talents in the Field of Natural Sciences, Sofia, Bulgaria, 07/11/2005
- One Year Scholarship for the most talented primary and secondary students in Serbia given by Galenika Company with cooperation of Center for Child Care in action "Serbia tomorrow", 10/12/2003
- Gold Medal at State Competition in Chemistry [test + research project], Subotica, Serbia, 05/23/2004
- Bronze Medal at State Competition in Chemistry [test + experimental practice], Subotica, Serbia, 05/23/2004
- Gold Medal at the State Competition in Chemistry [test + experimental practice], Niš, Serbia, 05/25/2003
- Silver Medal at the State Competition in Chemistry [test + research project], Niš, Serbia, 05/25/2003
- Bronze Medal at the State Competition in Chemistry [test + experimental practice], Kraljevo, Serbia, 05/26/2002
- Gold Medal at the State Competition in Chemistry [test + experimental practice], Kragujevac, Serbia, 05/20/2001