

# ANA B. MILTOJEVIĆ

## PERSONAL DATA

PLACE AND DATE OF BIRTH: Niš, Serbia, 19 June 1985  
E-MAIL: ana.miltojevic@znrfak.ni.ac.rs, anamiltojevic@yahoo.com

## EDUCATION

- 2009 – 2016      **PhD in Chemistry** – Organic chemistry and biochemistry  
Doctoral Studies at Faculty of Science and Mathematics, University of Niš, Serbia  
GPA: 10.00/10.00  
Thesis title: “Secondary Metabolites of *Choisya ternata* Kunth (Rutaceae): Isolation, Synthesis, Spectral Characterization and Biological Activity”, supervised by professor Dr. Niko Radulović
- 2004 – 2009      **BSc degree in Chemistry**  
Studies of Chemistry at Faculty of Science and Mathematics, University of Niš, Serbia  
GPA: 9.76/10.00
- 1999 – 2004      High School “Svetozar Marković”, Niš, Serbia

## WORK EXPERIENCE

- December 2014 – present      **Teaching Assistant**  
Faculty of Occupational Safety, University of Niš, Serbia  
*Teaching: laboratory practice in Chemistry, Toxicology, Biochemical and Biotechnological Principles, Environmental Chemistry, Chemical parameters of the living and working environment*
- January 2014 – December 2014      **Teaching Associate**  
Faculty of Medicine, University of Niš, Serbia  
*Teaching: laboratory practice in Pharmaceutical Chemistry and Basics of General and Analytical Chemistry*
- February 2013 – January 2014      **Research Associate**  
Faculty of Science and Mathematics, University of Niš, Serbia
- February 2011 – February 2013      **Junior Researcher**  
Faculty of Science and Mathematics, University of Niš, Serbia
- February 2010 – January 2011      **PhD Student – Researcher**  
Faculty of Science and Mathematics, University of Niš, Serbia  
*Scholarship of the Ministry of Education and Science of the Republic of Serbia for the inclusion of PhD students in research projects*
- September 2012 – June 2015      **Chemistry teacher in bilingual French-Serbian class**  
High School “Svetozar Marković”, Niš, Serbia

## ADDITIONAL INFORMATION

### RESEARCH PROJECTS:

#### National research projects:

- Combinatorial Libraries of Heterogeneous Catalysts, Natural Products, Modified Natural Products and Their Analogues: A Path to Biologically Active Agents (01/2011 – present);
- Secondary Metabolites: Chemical Composition, Antimicrobial and Antioxidant Activity (02/2010 – 12/2010).

### PROFESSIONAL DEVELOPMENT:

- One Month Internship at Max Planck Institute for Chemical Physics of Solids, Dresden, Germany, 2011;
- One Month Internship at Max Planck Institute for Chemical Physics of Solids, Dresden, Germany, 2010;
- 8<sup>th</sup> Mass Spectrometry School entitled The Mass Spectrometry in Environmental and Biochemical Analysis, organized by Faculty of Science and Mathematics, University of Niš, Serbia and Pierre and Marie Curie University, Paris, France, held in Niš, Serbia, 2013;
- 7<sup>th</sup> Mass Spectrometry School entitled The Mass Spectrometry in Environmental Pollutants Detection, organized by Faculty of Science and Mathematics, University of Niš, Serbia and Pierre and Marie Curie University, Paris, France, held in Niš, Serbia, 2012;
- International Training Workshop on Physical-Chemical Aspects of Environmental Health, organized by Michigan State University (USA), the Institute of International Health (Serbia) and the Fogarty International Center Program on Environmental Health (Serbia), held in Niš, Serbia, 2008.

### HONORS AND AWARDS:

- L'Oréal-UNESCO Award for Women in Science, 2016;
- IUPAC Poster Prize Certificate at the 51<sup>th</sup> Meeting of the Serbian Chemical Society, Niš, Serbia, 2014;
- Young Scientists Registration Fellowship at the 43<sup>rd</sup> International Symposium on Essential Oils (ISEO 2012), Lisbon, Portugal, 2012;
- Special Award of the Serbian Chemical Society for outstanding success during the studies, 2010.
- The Eurobank EFG Scholarship for One Hundred Top Undergraduate Students of Serbian State Universities, 2008.

## PERSONAL SKILLS AND COMPETENCES

### MOTHER TONGUE:

Serbian

### OTHER LANGUAGES:

Reading skills  
Writing skills  
Verbal skills

English  
excellent  
excellent  
excellent

French  
excellent  
excellent  
excellent

### TECHNICAL SKILLS AND COMPETENCES:

*Operating Systems:* Windows  
*Microsoft Office:* Word, Excel, PowerPoint, Access  
*Chemistry dedicated software:* ChemBioOffice, MestReNova, WinDNMR, AMDIS/NIST  
*Good command of web research tools:* SciFinder, Scopus

### DRIVING LICENCE

B category

- MEMBERSHIPS:**
- Serbian Chemical Society
  - Serbian Young Chemists' Club
  - Serbian Phytochemical and Phytomedicinal Society
- EXTRA-CURRICULAR ACTIVITIES:**
- Member of the Chemical Laboratory at the Faculty of Occupational Safety;
  - Member of the Air Pollution Control Laboratory at the Faculty of Occupational Safety;
  - Member of the team for the promotion of the Faculty of Occupational Safety;
  - Participated in the organization and realization of the two interactive exhibitions Lessons of Marie Curie and Water in the heart of science, Niš, 2013. and 2014, respectively;
  - Participated in the organization and realization of the Serbian State Competition in Chemistry, Niš, 2011, and Niš's Local Competition in Chemistry 2009, 2010. and 2012;
  - Participated at the Festival of Science „Nauk nije bauk“, Niš, 2010, 2011, 2012, 2013;
  - Participated at the Researchers' Night, Niš, 2014.
- REFERENCE:**
- Dr. Niko S. Radulović  
Full Professor at University of Niš, Faculty of Sciences and Mathematics, Department of Chemistry  
Višegradska 33, 18000 Niš, Serbia  
Tel (fax) +381 18 533014  
e-mail: [nikoradulovic@yahoo.com](mailto:nikoradulovic@yahoo.com)
- ANNEXES:**
- Publications in international SCI-journals with peer review;
  - Other Publications;
  - International Conferences;
  - National Conferences.

## Publications in international SCI-journals with peer review:

1. Radulović, N. S.; Miltojević, A. B.; Stojković, M. B.; Blagojević, P. D. New volatile sulfur-containing compounds from wild garlic (*Allium ursinum* L., Liliaceae), *Food Research International*, **2015**, *78*, 1–10. ISSN 0963-9969. doi: 10.1016/j.foodres.2015.11.019. **IF5 (2015): 3,871**  
<https://doi.org/10.1016/j.foodres.2015.11.019>
2. Radulović, N. S.; Miltojević, A. B.; Stojanović, N. M.; Randjelović, P. J. Distinct urinary metabolite profiles of two pharmacologically active *N*-methylantranilates: Three approaches to xenobiotic metabolite identification, *Food and Chemical Toxicology*, **2017**, *109* (1), 341-355. ISSN 0278-6915. doi: 10.1016/j.fct.2017.09.006. **IF5 (2016): 3,628**  
<https://doi.org/10.1016/j.fct.2017.09.006>
3. Miltojević, A. B.; Radulović, N. S. Structural elucidation of thermolysis products of methyl *N*-methyl-*N*-nitrosoantranilate, *RSC Advances*, **2015**, *5* (66), 53569-53585. ISSN 2046-2069. doi: 10.1039/C5RA07612A. **IF5 (2015): 3,485**  
<https://doi.org/10.1039/C5RA07612A>
4. Gomes Pinheiro, M. M.; Miltojević, A. B.; Radulović, N. S.; Abdul-Wahab, I. R.; Boylan, F.; Fernandes, P. D. Anti-inflammatory activity of *Choisya ternata* Kunth essential oil, ternanthranin, and its two synthetic analogs (methyl and propyl *N*-methylantranilates), *PLoS One*, **2015**, *10* (3), e0121063. ISSN 1932-6203. doi: 10.1371/journal.pone.0121063. **IF5 (2015): 3,535**  
<https://doi.org/10.1371/journal.pone.0121063>
5. Radulović, N. S.; Blagojević, P. D.; Miltojević, A. B.  $\alpha$ -Linalool—a marker compound of forged/synthetic Sweet Basil (*Ocimum basilicum* L.) essential oils, *Journal of the Science of Food and Agriculture*, **2013**, *93* (13), 3292–3303. ISSN 0022-5142. doi: 10.1002/jsfa.6175. **IF5 (2013): 1,983**  
<https://doi.org/10.1002/jsfa.6175>
6. Radulović, N. S.; Miltojević, A. B.; McDermott, M.; Waldren, S.; Parnell, J. A.; Pinheiro, M. M. G.; Fernandes, P. D.; Menezes, F. d. S. Identification of a new antinociceptive alkaloid isopropyl *N*-methylantranilate from the essential oil of *Choisya ternata* Kunth. *Journal of Ethnopharmacology*, **2011**, *135* (3), 610-619. ISSN 0378-8741. doi: 10.1016/j.jep.2011.03.035. **IF5 (2011): 3,728**  
<https://doi.org/10.1016/j.jep.2011.03.035>
7. Radulović, N. S.; Randjelović, P. J.; Stojanović, N. M.; Ilić, I. R.; Miltojević, A. B.; Stojković, M. B.; Ilić, M. Effect of two esters of *N*-methylantranilic acid from Rutaceae species on impaired kidney morphology and function in rats caused by CCl<sub>4</sub>, *Life Sciences*, **2015**, *135*, 110-117. ISSN 0024-3205. doi: 10.1016/j.lfs.2015.05.022. **IF5 (2015): 2,627**  
<https://doi.org/10.1016/j.lfs.2015.05.022>
8. Gomes Pinheiro, M. M.; Radulović, N. S.; Miltojević, A. B.; Boylan, F.; Fernandes, P. D. Antinociceptive esters of *N*-methylantranilic acid: Mechanism of action in heat-mediated pain. *European Journal of Pharmacology*, **2014**, *727*, 106-114. ISSN 0014-2999. doi: 10.1016/j.ejphar.2013.12.042. **IF5 (2014): 2,672**  
<https://doi.org/10.1016/j.ejphar.2013.12.042>
9. Radulović, N. S.; Jovanović, I.; Ilić, I. R.; Randjelović, P. J.; Stojanović, N. M.; Miltojević, A. B. Methyl and isopropyl *N*-methylantranilates attenuate diclofenac- and ethanol-induced gastric lesions in rats, *Life Sciences*, **2013**, *93* (22), 840-846. ISSN 0024-3205. doi: 10.1016/j.lfs.2013.10.002. **IF5 (2013): 2,538**  
<https://doi.org/10.1016/j.lfs.2013.10.002>

10. Radulović, N. S.; Miltojević, A. B.; Randjelović, P. J.; Stojanović, N. M.; Boylan, F. Effects of methyl and isopropyl *N*-methylantranilates from *Choisya ternata* Kunth (Rutaceae) on experimental anxiety and depression in mice, *Phytotherapy Research*, **2013**, 27 (9), 1334–1338. ISSN 0951-418X. doi: 10.1002/ptr.4877. **IF5 (2013): 2,480**  
<https://doi.org/10.1002/ptr.4877>
11. Radulović, N. S.; Miltojević, A. B.; Vukićević, R. D. Simple and efficient one-pot solvent-free synthesis of *N*-methyl imines of aromatic aldehydes, *Comptes Rendus Chimie*, **2013**, 16 (3), 257-270. ISSN 1631-0748. doi: 10.1016/j.crci.2013.01.010. **IF5 (2013): 1,646**  
<https://doi.org/10.1016/j.crci.2013.01.010>
12. Stojanović-Radić, Z.; Čomić, L.; Radulović, N.; Blagojević, P.; Denić, M.; Miltojević, A.; Rajković, J.; Mihajilov-Krstev, T. Antistaphylococcal activity of *Inula helenium* L. root essential oil: eudesmane sesquiterpene lactones induce cell membrane damage. *European Journal of Clinical Microbiology and Infectious Diseases*, **2012**, 31 (6), 1015-1025. doi: 10.1007/s10096-011-1400-1. ISSN 0934-9723. **IF5 (2012):**  
<http://www.kobson.nb.rs.proxy.kobson.nb.rs:2048/servisi.131.html?jid=3666032,863>  
<https://doi.org/10.1007/s10096-011-1400-1>
13. Radulović, N.; Miltojević, A. Alkanes of *Jurinea mollis*, a Pannonian subendemic species. *Chemistry of Natural Compounds*, **2012**, 47 (6), 963-965. ISSN 0009-3130. doi: 10.1007/s10600-012-0114-7. **IF5 (2012): 0,745**  
<https://doi.org/10.1007/s10600-012-0114-7>
14. Miltojević, A.; Radulović, N.; Vukićević, R. D.; Trifunović, S.; Borrmann, H. Crystal structure of 3-cyclohexyl-1,3-oxazin-2-one, C<sub>10</sub>H<sub>17</sub>NO<sub>2</sub>. *Zeitschrift fur Kristallographie - New Crystal Structures*, **2011**, 226 (4), 651-652. ISSN 1433-7266. doi: 10.1524/ncrs.2011.0292. **IF5 (2011): 0,259**  
<https://doi.org/10.1524/ncrs.2011.0292>

### Other Publications:

15. Miltojević, A. B.; Radulović, N. S. Complete assignment of <sup>1</sup>H- and <sup>13</sup>C-NMR spectra of anthranilic acid and its hydroxy derivatives and salicylic acid and its amino derivatives. *Facta Universitatis, Series: Physics, Chemistry and Technology*, **2015**, 13 (2), 121-132. ISSN 0354-4656. doi: 10.2298/FUPCT1502121M  
<https://dx.doi.org/10.2298/FUPCT1502121M>
16. Radulović, N. S.; Randjelović, P. J.; Stojanović, N. M.; Ilić, I. R.; Miltojević, A. B. Influence of methyl and isopropyl *N*-methyl antranilates on carbon tetrachloride-induced changes in rat liver morphology and function. *Facta Universitatis, Series: Physics, Chemistry and Technology*, **2013**, 11 (1), 67-73. ISSN 0354-4656. doi: 10.2298/FUPCT1301067R.  
<https://dx.doi.org/10.2298/FUPCT1301067R>

## International Conferences:

1. Miltojević, A. B.; Radulović, N. S. Complete NMR assignement of 1H- and 13C-resonances of methyl 5-methyl-6-oxo-(5H)-phenanthridine-4-carboxylate. In: *Book of Abstracts of the 19<sup>th</sup> Central and Eastern European NMR Symposium & Bruker Users' Meeting, CEUM 2017, Timișoara (Romania)*, 05 - 08. 09. 2017, pp 19.
2. Miltojević, A. B.; Radulović, N. S.; Stojanović, N. M.; Randjelović, P. J.; Stojanović, M. T. Metabolites of two essential-oil constituents, methyl and isopropyl *N*-methylantranilates, in rat urine. In: *Program, Book of Abstracts and Participants of the 47<sup>th</sup> International Symposium on Essential Oils List, ISEO 2016, Nice (France)*, 11 - 14. 09. 2016, pp. 104.
3. Miltojević, A. B.; Radulović, N. S.; Blagojević, P. D.; Golubović, T. D. Quantitative structure–property relationship modeling of GC retention indices of organosulfur compounds. In: *Program, Book of Abstracts and Participants of the 47<sup>th</sup> International Symposium on Essential Oils List, ISEO 2016, Nice (France)*, 11 - 14. 09. 2016, pp. 105.
4. Ilić, I. R.; Stojanović, N. M.; Randjelović, P. J.; Miltojević, A. B.; Ilić, M.; Živković, V. V.; Ilić, R. S.; Radulović, N. S. Effects of two volatile esters of *N*-methylantranilic acid in CCl<sub>4</sub>-induced acute nephrotoxicity rat model. In: *Program, Book of Abstracts and Participants of the 47<sup>th</sup> International Symposium on Essential Oils List, ISEO 2016, Nice (France)*, 11 - 14. 09. 2016, pp. 83.
5. Radulović, N. S.; Miltojević, A. B.; Stojković, M. B.; Blagojević, P. D. Allyl hexyl sulfide and allyl octyl sulfide are new bioactive compounds from wild garlic (*Allium ursinum* L., Liliaceae). Identification of additional new sulfur-containing volatiles through simple QSPR modeling of GC retention data. In: *Book of abstracts of the 2<sup>nd</sup> International Conference on Natural Products Utilization: From Plants to Pharmacy Shelf, Plovdiv (Bulgaria)*, 14 - 17. 10. 2015, pp. 55.
6. Stojanović, N. M.; Radulović, N. S.; Randjelović, P. J.; Ilić, I. R.; Miltojević, A. B.; Mitić, K. V.; Krstić, V.; Blagojević, P. D. Effects of methyl and isopropyl *N*-methylantranilates from *Choisya ternata* Kunth (Rutaceae) in rat models of different diseases. In: *Book of abstracts of the 2<sup>nd</sup> International Conference on Natural Products Utilization: From Plants to Pharmacy Shelf, Plovdiv (Bulgaria)*, 14 - 17. 10. 2015, pp. 293.
7. Stojanović, N. M.; Blagojević, P. D.; Randjelović, P. J.; Mitić, K. V.; Miltojević, A. B.; Radulović, N. S. Polypharmacological properties of *Choisya ternata* Kunth essential oil constituents. Esters of *N*-methylantranilic acid - a new panacea? In: *Natural Volatiles and Essential Oils (NVEO)*, Vol. 1, Special Issue 2014 (45<sup>th</sup> International Symposium on Essential Oils, ISEO 2014 Abstracts), Istanbul (Turkey), 07 - 10.09.2014, pp. 203.
8. Radulović, N. S.; Miltojević, A. B.; Randjelović, P. J.; Stojanović N. M., Boylan, F. Effects of methyl and isopropyl *N*-methylantranilates from the essential oil of *Choisya ternata* Kunth (Rutaceae) on experimental anxiety and depression in mice. In: *Programme, Book of Abstracts and Participants List of the 43<sup>rd</sup> International Symposium on Essential Oils, ISEO 2012, Lisboa (Portugal)*, 05 - 08. 09. 2012, pp. pp. 82.
9. Radulović, N. S.; Miltojević, A. B. Identification of methyl 2-hydroxy-3-methylhexanoate - a new headspace constituent of *Galanthus nivalis* L. (Amaryllidaceae). In: *Programme, Book of Abstracts and Participants List of the 43<sup>rd</sup> International Symposium on Essential Oils, ISEO 2012, Lisboa (Portugal)*, 05 - 08. 09. 2012, pp. 90.

10. Aleksić, S. B.; Radulović, N.; Stojanović, N.; Randelović, P.; Miltojević, A.; Blagojević, P.; Milenković, I. Hepatoprotective/-toxic properties of flavoring agents: the case of the naturally occurring methyl and isopropyl *N*-methylantranilates. In: *Abstracts of the 18<sup>th</sup> WONCA Europe Conference*, Vienna (Austria), 04 - 07. 07. 2012, pp. 256.
11. Milošević, V.; Stojanović, S.; Najman, S.; Miltojević, A.; Randelović, J.; Najdanović, J. Effects of *Chelidonium majus* ethanolic extracts on viability and proliferation of different cell types in vitro. In: *6<sup>th</sup> Young European Scientist Meeting (YES meeting) Guide*, Porto (Portugal), 16 – 18. 09. 2011, pp. 72.
12. Radulović, N.; Blagojević, P.; Miltojević, A. α-Linalool as a constituent of sweet basil (*Ocimum basilicum* L.) essential oil: the first report. In: *Programme and Book of Abstracts of the 41<sup>th</sup> International Symposium on Essential Oils, ISEO 2010*, Wroclaw (Poland), 05 - 08. 09. 2010, pp. 123.
13. McDermott, M.; Waldren, S.; Sales Alviano, D.; Sales Alviano, C.; Miltojević, A.; Radulović, N.; de Sousa Menezes, F. Chemical constituents and antibacterial activity of *Choisya ternata* Kunth essential oil. In: *Programme and Book of Abstracts of the 40<sup>th</sup> International Symposium on Essential Oils, ISEO 2009*, Savigliano (Italy), 06 - 09. 09. 2009, pp. 120.

### National Conferences:

1. Krstić, M.; Miltojević, A.; Radulović, N. Wax alkanes of *Galanthus nivalis* L. (Amaryllidaceae). In: *Abstracts of the 12<sup>th</sup> Symposium on the Flora of Southeastern Serbia and Neighboring Regions*, Kopaonik, 16 -19. 06. 2016, pp. 115-116.
2. Radulović, N. S.; Miltojević, A. B. Structural elucidation of thermolysis products of methyl *N*-methyl-*N*-nitrosoantranilate. In: *Program and Book of Abstracts of the 53<sup>rd</sup> Meeting of the Serbian Chemical Society*, Kragujevac. 10 - 11. 06. 2016, pp. 104. ISBN 978-86-7132-056-6. COBISS.SR-ID 223816204.
3. Miltojević, A. B.; Radulović, N. S. Unexpected second-order effects in proton-coupled <sup>13</sup>C NMR spectra of 3-aminosalicylic acid. In: *Book of Abstracts of the 3<sup>rd</sup> Conference of Young Chemists of Serbia*, Belgrade, 24.10.2015, pp. 15. ISBN 978-86-7132-059-7. COBISS.SR-ID 218304012.
4. Miltojević, A. B.; Radulović, N. S.; Živković, M. Z.; Vukićević, R. D. Simple and efficient one-pot solvent-free synthesis of *N*-methyl imines of aromatic aldehydes. In: *Proceedings of the 51<sup>st</sup> Meeting of the Serbian Chemical Society and the 2<sup>nd</sup> Conference of the Young Chemists of Serbia*, Niš, 05 - 07. 06. 2014, pp. 94. ISBN 978-86-7132-055-9. COBISS.SR-ID 207456524.
5. Blagojević, P. D.; Veljković, D.; Dekić, V. S.; Dekić, B. R.; Miltojević, A. B.; Zarić, S.; Borrmann, H.; Radulović, N. S. Thiazole-coumarin hybrids: crystal packing determines tautomeric form. In: *Proceedings of the 51<sup>st</sup> Meeting of the Serbian Chemical Society and the 2<sup>nd</sup> Conference of the Young Chemists of Serbia*, Niš, 05 - 07. 06. 2014, pp. 88. ISBN 978-86-7132-055-9. COBISS.SR-ID 207456524.
6. Radulović, N.; Miltojević, A. Alkanes of *Jurinea mollis* L., a pannonian subendemic species. In: *Book of Abstracts of the 11<sup>th</sup> Symposium on the Flora of Southerneastern Serbia and Neighboring Regions*, Vlasina, 13 - 15. 06. 2013, pp. 88.

7. Radulović, N. S.; Miltojević, A. B. Identification of methyl esters of 2-hydroxy-3-methylcarboxylic acids – headspace constituents of intact *Galanthus nivalis* L. (Amaryllidaceae) flowers. In: *Programme and Book of Abstracts of the 1<sup>st</sup> Conference of Young Chemists of Serbia*, Belgrade, 19 - 20. 10. 2012, pp. 26. ISBN 978-86-7132-050-4. COBISS.SR-ID 194007308.
8. Radulović, N. S.; Borrmann, H.; Miltojević, A. B.; Dekić, B. R.; Dekić, V. S.; Blagojević, P. D. An unexpected product of the condensation reaction between 4-chloro-3-nitrocoumarin and 4-methylbenzenesulfonamide in the presence of triethylamine. In: *Programme and Book of Abstracts of the 50<sup>th</sup> Golden Jubilee Meeting of the Serbian Chemical Society*, Belgrade, 14 - 15. 06. 2012, pp. 161. ISBN 978-86-7132-048-1. COBISS.SR-ID 191196940.
9. Radulović, N. S.; Miltojević, A. B.; McDermott, M.; Waldren, S.; Adrian Parnell, J.; Gomes Pinheiro, M. M.; Dias Fernandes, P.; de Sousa Menezes, F. Identification of a new antinociceptive alkaloid isopropyl *N*-methylantranilate from the essential oil of *Choisya ternata* Kunth (Rutaceae). In: *Programme and Book of Abstracts of the 49<sup>th</sup> Meeting of the Serbian Chemical Society*, Kragujevac, 13 - 14. 05. 2011, pp. 87. ISBN 978-86-7132-045-0. COBISS.SR-ID 183591692.
10. Miltojević, A.; Denić, M. Nitrates from fertilizers – Environmental and health effects. In: *Book of Abstracts of the 1<sup>th</sup> Congress of Students of Environmental Protection of South Eastern Europe, COSEP*, Kopaonik, 23 - 28. 04. 2008, pp. III-6.