



## Личне информације

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## Образовање

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Назив докторске дисертације „Биолошка активност изолованих нафтохинона и екстраката ризома биљке *Onosma visianii* Clem“

*Постдокторско усавршавање:* (2022-тренутно) Факултет за хортикултуру и пејзажно инжењерство, Словачки Пољопривредни Универзитет у Нитри

## Радно искуство

(2015-2018) **Истраживач приправник**, Институт за хемију, Природно-математички факултет, Универзитет у Крагујевцу

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## Језици

*Матерњи:* Српски  
*Остали језици:* Енглески

## Истраживачки рад

Предмет истраживања су састав биљних екстраката и етарских уља, као и изоловање флавоноида и нафтохинонских деривата (применом различитих хроматографских техника: класичне стубне хроматографије, препаративне танкослојне хроматографије, течне хроматографије под високим притиском), њихова идентификација (помоћу UV/Vis, IR и NMR спектроскопије), структурна модификација биолошки активних једињења и испитивање различитих нивоа биолошке активности истих.

## Наставни рад

На Институту за хемију, Природно-математичког факултета, Универзитет у Крагујевцу, као истраживач приправник и истраживач сарадник била је ангажована на извођењу практичне наставе на предметима Основи органске и биохемијске спектроскопије 1, Основи органске и биохемијске спектроскопије 2, Основи токсиколошке анализе 1, Основи токсиколошке анализе 2 и Методе анализе токсичних супстанци.

Као научни сарадник на Институту за хемију, Природно-математичког факултета, Универзитет у Крагујевцу, ангажована је на извођењу практичне наставе на предмету Основи форензичке и екотоксиколошке анализе.

## Учешће на пројектима

1. Учесник на пројекту број ИО 172016, „Синтезе, моделовање, физичко-хемијске и биолошке особине органских једињења и одговарајућих комплекса метала“, финансираног од Министарства просвете, науке и технолошког развоја.
2. Руководилац пројекта „Епигенетски потпис COVID-19: Алел-специфична и глобална метилација као детерминанте тежине и исхода болести– EPIGENOVID-19“, у оквиру програма за научно-истраживачке односно уметничке пројекте младих истраживача и уметника који се финансирају из средстава Центра за научно-истраживачки рад САНУ и Универзитета у Крагујевцу.
3. Учесник на пројекту број 7749739, „Генетске и епигенетске детерминанте заражавања, тежине и исход SARS-CoV-2 инфекције - SVETOVID-19“, у оквиру програма ИДЕЈЕ Фонда за науку Републике Србије.

## Научно-истраживачки рад

### Списак публикованих научних радова

1. Nenad L. Vukovic, Ana D. Obradovic, **Milena D. Vukic**, Danijela Jovanovic, Predrag M. Djurdjevic, Cytotoxic, proapoptotic and antioxidative potential of flavonoids isolated from propolis against colon (HCT-116) and breast (MDA-MB-231) cancer cell lines. *Food Research International*, (2017) vol 106, 71-80; **DOI:** <https://doi.org/10.1016/j.foodres.2017.12.056>; **ISSN:** 0963-9969
2. **Milena D. Vukic**, Nenad L. Vukovic, Gorica T. Djelic, Ana Obradovic, Miroslava M. Kacaniova, Snezana Markovic, Suzana Popović, Dejan Baskić, Phytochemical analysis, antioxidant, antibacterial and cytotoxic activity of different plant organs of *Eryngium serbicum* L. *Industrial Crops & Products*, (2018) vol 115, 88–97; **DOI:** <https://doi.org/10.1016/j.indcrop.2018.02.031>; **ISSN:** 0926-6690
3. Sanja Matic, Dragan Milovanovic, Zeljko Mijailovic, Predrag Djurdjevic, Predrag Sazdanovic, Srdjan Stefanovic, Danijela Todorovic, Suzana Popovic, Vladimir Vukicevic, Milena Vukic, Nenad Vukovic, Nevena Milivojevic, Marko Zivanovic, Vladimir Jakovljevic, Nenad Filipovic, Dejan Baskic, Natasa Djordjevic. IFNL3/4polymorphisms as a two-edged sword: an association with COVID-19 outcome. *Journal of medical virology*. (2023), vol 95 no 2, e28506, **DOI:** <https://doi.org/10.1002/jmv.28506>; **ISSN:** 0146-6615
4. Edina H. Avdović, Dejan Milenković, Jasmina M. Dimitrić Marković, Jelena Đorović, Nenad Vuković, **Milena D. Vukić**, Verica V. Jevtić, Srećko R. Trifunović, Ivan Potočňák, Zoran Marković, Synthesis, spectroscopic characterization (FT-IR, FT-Raman, and NMR), quantum chemical studies and molecular docking of 3-(1-(phenylamino)ethylidene)-chroman-2,4-dione. *Spectrochimica Acta. Part A: Molecular and Biomolecular Spectroscopy*, (2018) vol 195, 31-40; **DOI:** <https://doi.org/10.1016/j.saa.2018.01.023>; **ISSN:** 1386-1425
5. **Milena D Vukic**, Nenad L Vukovic, Gorica T Djelic, Suzana Lj Popovic, Milan M Zaric, Dejan D Baskic, Gordana B Krstic, Vele V Tesevic, Miroslava M Kacaniova, Antibacterial and cytotoxic activities of

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6. **Milena D. Vukic**, Nenad L. Vukovic, Suzana Lj. Popovic, Danijela V. Todorovic, Predrag M. Djurdjevic, Sanja D. Matic, Marina M. Mitrovic, Ana M. Popovic, Miroslava M. Kacaniova, Dejan D. Baskic, Effect of  $\beta$ -cyclodextrin encapsulation on cytotoxic activity of acetylshikonin against HCT-116 and MDA-MB-231 cancer cell lines. *Saudi Pharmaceutical Journal*, (2020), vol 28, pp 136-146; DOI: <https://doi.org/10.1016/j.jsps.2019.11.015>; ISSN: 1319-0164
  7. Zeljko Todorovic, Jelena Milovanovic, Dragana Arsenijevic, Nenad Vukovic, **Milena Vukic**, Aleksandar Arsenijevic, Predrag Djurdjevic, Marija Milovanovic, Nebojsa Arsenijevic, Shikonin Derivatives from *Onosma visianii* Decrease Expression of Phosphorylated STAT3 in Leukemia Cells and Exert Antitumor Activity. *Nutrients*, (2021), vol 13 no 4, pp 1147; DOI: <https://doi.org/10.3390/nu13041147>; ISSN: 2072-6643
  8. Edina H. Avdović, Isidora P. Petrović, Milena J. Stevanović, Luciano Saso, Jasmina M. Dimitrić Marković, Nenad D. Filipović, Miroslav Ž. Živić, Tijana N. Cvetić Antić, Milan V. Žižić, Nataša V. Todorović, **Milena Vukić**, Srećko R. Trifunović and Zoran S. Marković, Synthesis and Biological Screening of New 4-Hydroxycoumarin Derivatives and Their Palladium(II) Complexes. *Oxidative Medicine and Cellular Longevity*, (2021), vol 2021, Article ID 8849568, 18 pages; DOI: <https://doi.org/10.1155/2021/8849568>; ISSN: 1942-0900
  9. Lucia Galovicova, Petra Borotová, Veronika Valková, Nenad L. Vukovic, **Milena Vukic**, Margarita Terentjeva, Jana Štefániková, Hana Ďúranová, Przemysław Łukasz Kowalczewski and Miroslava Kacaniova. *Thymus serpyllum* Essential Oil and Its Biological Activity as a Modern Food Preserver. *Plants*, (2021), vol 10, no 7, pp 1416; DOI: <https://doi.org/10.3390/plants10071416>; ISSN: 2223-7747
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  11. Miroslava Kačániová, Lucia Galovičová, Petra Borotová, Veronika Valková, Hana Ďúranová, Przemysław Łukasz Kowalczewski, Hussein A. H. Said-Al Ahl, Wafaa Hikal, **Milena Vukic**, Tatsiana Savitskaya, Dmitry Grinspan, Nenad L. Vukovic. Chemical Composition, In Vitro and In Situ Antimicrobial and Antibiofilm Activities of *Syzygium aromaticum* (clove) Essential Oil. *Plants*, (2021), vol 10, no 10, 2185; DOI: <https://doi.org/10.3390/plants10102185>; ISSN: 2223-7747
  12. Simona Kunová, Esther Sendra, Peter Haščík, Nenad L. Vukovic, **Milena Vukic** and Miroslava Kačániová. Influence of Essential Oils on the Microbiological Quality of Fish Meat during Storage. *Animals*, (2021) vol 11, no 11, pp 3145; DOI: <https://doi.org/10.3390/ani11113145>; ISSN: 2076-2615
  13. Veronika Valková, Hana Ďúranová, Lucia Galovicová, Petra Borotová, Nenad L. Vukovic, **Milena Vukic** and Miroslava Kačániová. *Cymbopogon citratus* Essential Oil: Its Application as an Antimicrobial Agent in Food Preservation. *Agronomy (Basel)*, (2022) vol 12, 155; DOI: <https://doi.org/10.3390/agronomy12010155>; ISSN: 2073-4395
  14. Dejan Simic, Milan Zaric, Ivana Nikolic, Radica Zivkovic Zaric, Petar Canovic, Aleksandar Kocovic, Ivana Radojevic, Ivana Rakovic, Sandra Jovicic Milic, Djordje Petrovic, Danijela Stojkovic, Nenad Vukovic, Miroslava Kačániová, **Milena Vukic** and Verica Jevtic. Newly synthesized palladium(II) complexes with aminothiazole derivatives: In vitro study of antimicrobial activity and antitumor activity on human prostate cancer cell line. *Dalton Transactions*, (2021) vol 51, pp 1191-1205; DOI: <https://doi.org/10.1039/D1DT03364F>; ISSN: 1477-9226
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  18. Miroslava Kacaniova, Nenad L. Vukovic, Natália Čmiková, Lucia Galovicová, Marianna Schwarzová, Veronika Šimora, Przemysław Łukasz Kowalczewski, Maciej Ireneusz Kluz, Czesław Puchalski, Ladislav Bakay and **Milena D. Vukic**. *Salvia sclarea* Essential Oil Chemical Composition and Biological Activities. *International*

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  20. Lucia Galovicová, Natália Cmíková, Marianna Schwarzová, **Milena D. Vukic**, Nenad L. Vukovic, Przemysław Łukasz Kowalczewski, Ladislav Bakay, Maciej Ireneusz Kluz, Czesław Puchalski, Ana D. Obradovic, Miloš M. Matic and Miroslava Kacániová. Biological Activity of *Cupressus sempervirens* Essential Oil. *Plants*, (2023), vol. 12, 1097, 1-22. DOI: <https://doi.org/10.3390/plants12051097>; ISSN: 2223-7747
  21. Natália Cmíková, Lucia Galovicová, Marianna Schwarzová, **Milena D. Vukic**, Nenad L. Vukovic, Przemysław Łukasz Kowalczewski, Ladislav Bakay, Maciej Ireneusz Kluz, Czesław Puchalski and Miroslava Kacániová. Chemical Composition and Biological Activities of *Eucalyptus globulus* Essential Oil. *Plants*, (2023), vol. 12, 1076, 1-18. DOI: <https://doi.org/10.3390/plants12051076>; ISSN: 2223-7747
  22. Lucia Galovicová, Petra Borotová, Nenad L. Vukovic, **Milena Vukic**, Simona Kunová, Paweł Hanus, Przemysław Łukasz Kowalczewski, Ladislav Bakay and Miroslava Kacániová. The Potential Use of *Citrus aurantifolia* L. Essential Oils for Decay Control, Quality Preservation of Agricultural Products, and Anti-Insect Activity. *Agronomy*, (2022) vol. 12(3), 735, 1-12; DOI: <https://doi.org/10.3390/agronomy12030735>; ISSN: 2073-4395
  23. Miroslava Kacániová, Lucia Galovicová, Petra Borotová, Nenad L. Vukovic, **Milena Vukic**, Simona Kunová, Pavel Hanus, Ladislav Bakay, Edyta Zagrobelna, Maciej Kluz and Przemysław Łukasz Kowalczewski. Assessment of *Ocimum basilicum* Essential Oil Anti-Insect Activity and Antimicrobial Protection in Fruit and Vegetable Quality. *Plants*, (2022), vol. 11, 1030, 1-14; DOI: <https://doi.org/10.3390/plants11081030>; ISSN: 2223-7747
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  27. **Milena D. Vukic**, Nenad L. Vukovic, Milan Mladenovic, Nevena Tomašević, Sanja Matic, Snežana Stanic, Filippo Sapienza, Rino Ragno, Mijat Božovic and Miroslava Kacániová. Chemical Composition of Various *Nepeta cataria* Plant Organs' Methanol Extracts Associated with In Vivo Hepatoprotective and Antigenotoxic Features as well as Molecular Modeling Investigations. *Plants*, (2022), vol. 11, 2114, 1-31; DOI: <https://doi.org/10.3390/plants11162114>; ISSN: 2223-7747
  28. Edina H. Avdovic, Danijela L.J. Stojkovic, Verica V. Jevtic, Milica Kosic Biljana Ristic, Ljubica Harhaji-Trajkovic, **Milena Vukic**, Nenad Vukovic, Zoran S. Markovic, Ivan Potocnják, Srecko R. Trifunovic. Synthesis, characterization and cytotoxicity of a new palladium(II) complex with a coumarin-derived ligand 3-(1-(3-hydroxypropylamino) ethylidene)chroman-2,4-dione. Crystal structure of the 3-(1-(3-hydroxypropylamino)ethylidene)-chroman-2,4-dione. *Inorganica Chimica Acta*, (2017) vol 466, 188-196; DOI: <https://doi.org/10.1016/j.ica.2017.06.015> ; ISSN: 0020-1693
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