

PERSONAL INFORMATION

Milena Vukić



📍 Faculty of Science, University of Kragujevac,
Radoja Domanovića 12, 34000 Kragujevac, Serbia

✉ milena.vukic@pmf.kg.ac.rs; milena.vukic@kg.ac.rs

Sex Female | Date of birth 23/03/1990

WORK EXPERIENCE

(2021- currently)

Research Associate

Department of Chemistry, Faculty of Science, University of Kragujevac, Serbia

(2018-2021)

Research Assistant

Department of Chemistry, Faculty of Science, University of Kragujevac, Serbia

(2015-2018)

Junior Researcher

Department of Chemistry, Faculty of Science, University of Kragujevac, Serbia

Researching work:

The composition of plant extracts and essential oils, as well as the isolation of flavonoids and naphthoquinone derivatives (using various chromatographic techniques: classic column chromatography, preparative thin-layer chromatography, high-pressure liquid chromatography, gas chromatography), their identification (using UV/Vis, IR and NMR spectroscopy as well as gas chromatography-mass spectrometry), structural modification of biologically active compounds and examination of different levels of their biological activity.

Educational work:

Researching and educational performance of exercises with students on the fourth year of chemistry, and master students of chemistry.

EDUCATION

(2022- 2023)

Postdoctoral study

Faculty of Horticulture and Landscape Engineering, Slovak University of Agriculture in Nitra
Supervised by prof. Ing. Miroslava Kačániová, PhD

(2014-2020)

PhD in chemistry - Biochemistry

Department of Chemistry, Faculty of Science, University of Kragujevac, Serbia

(2013-2014)

Master degree

Department of Chemistry, Faculty of Science, University of Kragujevac, Serbia

(2009-2013)

Bachelor degree

Department of Chemistry, Faculty of Science, University of Kragujevac, Serbia

PERSONAL SKILLS

Communication skills

- Good communication skills gained through my collaboration with colleagues and through my work with students at almost every level of studies (undergraduate/master studies).

Computer skills

- Excellent command of Microsoft Office™ tools
- Good command of Chemistry and Statistic software

Mother tongue

Serbian

Other language

English

ADDITIONAL INFORMATIONS

- Projects:**
- (2015-2019) Participant of the projects entitled "Synthesis, modelling, physicochemical and biological properties of some organic compounds and corresponding metal complexes" No. OI172016, funded by the Ministry of Education, Science and Technological Development of the Republic of Serbia
 - (2021-2022) Principal investigator of the project "Epigenetic signature of COVID-19: Allele-specific and global methylation as determinants of the severity and outcome of the disease - EPIGENOVID-19", within the program for scientific research and artistic projects of young researchers and artists financed from the funds of the Center for scientific research work of SANU and the University of Kragujevac.
 - (2021-currently) Participant of the project No. 7749739, "Genetic and epigenetic determinants of infection, severity and outcome of SARS-CoV-2 infection - SVETOVID-19", within the IDEJE program of the Science Fund of the Republic of Serbia.
- Publications:**
- 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
 - **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
 - 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
 - Sanja Matic, Dragan Milovanovic, Zeljko Mijailovic, Predrag Djurdjevic, Predrag Sazdanovic, Srdjan Stefanovic, Danijela Todorovic, Suzana Popovic, Katarina Vitošević, Vladimir Vukicevic, **Milena Vukic**, Nenad Vukovic, Nevena Milivojevic, Marko Zivanovic, Vladimir Jakovljevic, Nenad Filipovic, Natasa Djordjevic, Dejan Baskic. Its all about IFN- λ 4: Protective role of IFNL4 polymorphism against COVID-19-related pneumonia in females. *Journal of Medical Virology*, (2023), vol 95 no 10, e29152; DOI: <https://doi.org/10.1002/jmv.29152>; ISSN: 0146-6615
 - Nenad L. Vuković, **Milena Vukić**, Jovica Branković, Vladimir Petrović, Lucia Galovičova, Natalia Čmikova, Miroslava Kačaniova. The antimicrobial and antibiofilm potential of the **Piper nigrum** L. essential oil: in vitro, in situ, and in silico study. *Industrial Crops & Products*, (2024), vol 209, 118075; DOI: <https://doi.org/10.1016/j.indcrop.2024.118075>; ISSN: 0926-6690
 - 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
 - **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 naphthoquinone pigments from *Onosma visianii* Clem. *Excli Journal*, (2017) vol 16, 73-78; DOI: <http://dx.doi.org/10.17179/excli2016-762>; ISSN: 1611-2156
 - **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 β -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
 - 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
 - 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
- Lucia Galovicova, Petra Borotová, Veronika Valková, Nenad L. Vukovic, **Milena Vukic**, Margarita Terentjeva, Jana Štefániková, Hana Dúranová, 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
 - Lucia Galovičová, Petra Borotová, Veronika Valková, Nenad L. Vukovic, **Milena Vukic**, Jana Štefániková, Hana Dúranová, Przemysław Łukasz Kowalczewski, Natália Čmiková and Miroslava Kačániová. *Thymus vulgaris* Essential Oil and Its Biological Activity. *Plants*, (2021), vol 10, no 9, pp 1959; DOI: <https://doi.org/10.3390/plants10091959>; ISSN: 2223-7747
 - Miroslava Kačániová, Lucia Galovičová, Petra Borotová, Veronika Valková, Hana Dúranová, 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
 - 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
 - Veronika Valková, Hana Dúranová, Lucia Galovicová, Petra Borotová, Nenad L. Vukovic, **Milena Vukic** and Miroslava Kacániová. *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
 - 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
 - Miroslava Kačániová, Lucia Galovičová, Veronika Valková, Hana Dúranová, Jana Štefániková, Natália Čmiková, **Milena Vukic**, Nenad L. Vukovic and Przemysław Łukasz Kowalczewski. Chemical Composition, Antioxidant, In Vitro and In Situ Antimicrobial, Antibiofilm, and Anti-Insect Activity of Cedar atlantica Essential Oil. *Plants*, (2022), vol. 11, 358, 1-21; DOI: <https://doi.org/10.3390/plants11030358>; ISSN: 2223-7747
 - Lucia Galovicova, Petra Borotova, Veronika Valkova, Hana Duranova, Jana Stefanikova, Nenad L. Vukovic, **Milena Vukic** and Miroslava Kacaniova. Biological activity of *Pogostemon cablin* essential oil and its potential use for food preservation. *Agronomy*, (2022) vol. 12(2), 387, 1-20; DOI: <https://doi.org/10.3390/agronomy12020387>; ISSN: 2073-4395
 - Petra Borotová, Lucia Galovičová, Nenad L. Vukovic, **Milena Vukic**, Eva Tvrďá and Miroslava Kačániová. Chemical and Biological Characterization of *Melaleuca alternifolia* Essential Oil. *Plants*, (2022), vol. 11, 558, 1-18; DOI: <https://doi.org/10.3390/plants11040558>; ISSN: 2223-7747
 - 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 Journal of Molecular Sciences*, (2023), vol 24 (6), pp 5179, 1-22. DOI: <https://doi.org/10.3390/ijms24065179>; ISSN: 1422-0067
 - Petra Borotová, Natália Čmiková, Lucia Galovicová, Nenad L. Vukovic, **Milena D. Vukic**, Eva Tvrďá, Przemysław Łukasz Kowalczewski, Maciej Ireneusz Kluz, Czesław Puchalski, Marianna Schwarzová, Ladislav Bakay and Miroslava Kacániová. Antioxidant, Antimicrobial, and Anti-Insect Properties of *Boswellia carterii* Essential Oil for Food Preservation Improvement. *Horticulturae*, (2023) vol. 9, 333, 1-19; DOI: <https://doi.org/10.3390/horticulturae9030333>; ISSN: 2311-7524
 - Lucia Galovicová, Natália Čmiková, 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
 - Natália Čmiková, Lucia Galovicová, Marianna Schwarzová, **Milena D. Vukic**, Nenad L. Vukovic, Przemysław Łukasz Kowalczewski, Ladislav Bakay, Maciej Ireneusz Kluz, Czesław

- Puchalski and Miroslava Kacáňiová. 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
- Lucia Galovicová, Petra Borotová, Nenad L. Vukovic, **Milena Vukic**, Simona Kunová, Pawel Hanus, Przemysław Łukasz Kowalczewski, Ladislav Bakay and Miroslava Kacáňiová. 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
 - Miroslava Kacáňiová, 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
 - Sandra S. Jovičić Milić, Verica V. Jevtić, Snežana R. Radisavljević, Biljana V. Petrović, Ivana D. Radojević, Ivana R. Raković, Đorđe S. Petrović, Danijela L.J. Stojković, Milena Jurišević, Nevena Gajović, Anđela Petrović, Nebojša Arsenijević, Ivan Jovanović, Olivera R. Klisurić, Nenad L. Vuković, **Milena Vukić**, Miroslava Kačáňiová. Synthesis, characterization, DNA interactions and biological activity of new palladium(II) complexes with some derivatives of 2-aminothiazoles. *Journal of Inorganic Biochemistry*, (2022), vol. 233, 111857; DOI: <https://doi.org/10.1016/j.jinorgbio.2022.111857>; ISSN: 0162-0134
 - Petra Borotová, Lucia Galovicová, Nenad L. Vukovic, **Milena Vukic**, Simona Kunová, Pawel Hanus, Przemysław Łukasz Kowalczewski, Ladislav Bakay and Miroslava Kacáňiová. Role of *Litsea cubeba* Essential Oil in Agricultural Products Safety: Antioxidant and Antimicrobial Applications. *Plants*, (2022), vol. 11, 1504, 1-14; DOI: <https://doi.org/10.3390/plants11111504>; ISSN: 2223-7747
 - Milena M. Jovanović, Dragana S. Šeklić, Jelena D. Rakobradović, Nevena S. Planojević, Nenad L. Vuković, **Milena D. Vukić** and Snežana D. Marković. Royal Jelly and Trans-10-Hydroxy-2-Decenoic Acid Inhibit Migration and Invasion of Colorectal Carcinoma Cells. *Food Technology and Biotechnology*, (2022) vol 60, no 2, 213-224; DOI: <https://doi.org/10.17113/ftb.60.02.22.7495>; ISSN: 1330-9862
 - **Milena D. Vukic**, Nenad L. Vukovic, Milan Mladenovic, Nevena Tomašević, Sanja Matic, Snežana Stanic, Filippo Sapienza, Rino Ragno, Mijat Božovic and Miroslava Kacáňiová. 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
 - Simona Kunova, Esther Sendra, Peter Hascik, Nenad L. Vukovic, **Milena D. Vukic**, Anis Ben Hsouna, Wissem Mnif, Miroslava Kacaniova. Microbiological quality of deer meat treated with essential oil *Litsea cubeba*. *Animals*, (2021) vol. 12(18), 2315, 1-11; DOI: <https://doi.org/10.3390/ani12182315>; ISSN: 2076-2615
 - Lucia Galovičová, Natália Čmiková, Nenad Vukovic, **Milena Vukic**, Przemysław Łukasz Kowalczewski, Ladislav Bakay and Miroslava Kačáňiová. Chemical Composition, Antioxidant, Antimicrobial, Antibiofilm and Anti-Insect Activities of *Jasminum grandiflorum* Essential Oil. *Horticulturae*, (2022) vol. 8, 953, 1-17; DOI: <https://doi.org/10.3390/horticulturae8100953>; ISSN: 2311-7524
 - Nenad L. Vukovic, **Milena D. Vukic**, Ana D. Obradovic, Milos M. Matic, Lucia Galovicová, and Miroslava Kacáňiová. GC, GC/MS Analysis, and Biological Effects of Essential Oils from *Thymus mastchina* and *Elettaria cardamomum*. *Plants*, (2022), vol. 11, 3213, 1-26, DOI: <https://doi.org/10.3390/plants11233213>; ISSN: 2223-7747
 - **Milena D. Vukic**, Nenad L. Vukovic, Ana D. Obradovic, Lucia Galovičová, Natália Čmiková, Miroslava Kačáňiová and Milos M. Matic. Chemical Composition and Biological Activity of *Tanacetum balsamita* Essential Oils Obtained from Different Plant Organs. *Plants*, (2022), vol. 11(24), 3474, 1-22; DOI: <https://doi.org/10.3390/plants11243474>; ISSN: 2223-7747
 - 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 Journal of Molecular Sciences*; (2023), vol 24 (6), pp 5179, 1-22; DOI: <https://doi.org/10.3390/ijms24065179>; ISSN: 1422-0067
 - Petra Borotová, Natália Čmiková, Lucia Galovicová, Nenad L. Vukovic, **Milena D. Vukic**, Eva Tvrdá, Przemysław Łukasz Kowalczewski, Maciej Ireneusz Kluz, Czesław Puchalski, Marianna Schwarzová, Ladislav Bakay and Miroslava Kacáňiová. Antioxidant, Antimicrobial, and Anti-Insect Properties of *Boswellia carterii* Essential Oil for Food Preservation Improvement. *Horticulturae*, (2023) vol. 9, 333, 1-19; DOI: <https://doi.org/10.3390/horticulturae9030333>; ISSN: 2311-7524

- Lucia Galovicová, Natália Čmiková, 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 Kačaniová. Biological Activity of *Cupressus sempervirens* Essential Oil. *Plants* (2023), vol. 12, 1097, 1-22; DOI: <https://doi.org/10.3390/plants12051097>; ISSN: 2223-7747
- Natália Čmiková, Lucia Galovicová, Marianna Schwarzová, **Milena D. Vukic**, Nenad L. Vukovic, Przemysław Łukasz Kowalczewski, Ladislav Bakay, Maciej Ireneusz Kluz, Czesław Puchalski and Miroslava Kačaniová. 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
- **Milena D. Vukic**, Natália Čmiková, Anis Ben Hsouna, Rania Ben Saad, Stefania Garzoli, Marianna Schwarzová, Nenad L. Vukovic, Ana D. Obradovic, Miloš M. Matic, Bożena Waszkiewicz-Robak, Maciej Ireneusz Kluz and Miroslava Kačaniová. *Thymus zygis*, Valuable Antimicrobial (In Vitro and In Situ) and Antibiofilm Agent with Potential Antiproliferative Effects. *Plants*, (2023), vol. 12, 3920, 1-23, DOI: <https://doi.org/10.3390/plants12233920>; ISSN: 2223-7747
- Miroslava Kačaniová, **Milena Vukic**, Nenad L. Vukovic, Natália Čmiková, Andrea Verešová, Marianna Schwarzová, Mária Babošová, Jana Ivanič Porhajašová, Maciej Ireneusz Kluz, Bożena Waszkiewicz-Robak, Anis Ben Hsouna, Rania Ben Saad, Stefania Garzoli. An in-depth study on the chemical composition and biological effects of *Pelargonium graveolens* essential oil. *Foods*, (2024), vol. 13(1), 33. pp; DOI: <https://doi.org/10.3390/foods13010033>; ISSN: 2304-8158
- Jovica Branković, Vesna Matejić, Dušica Simijonović, **Milena D. Vukić**, Miroslava Kačaniová, Marko Živanović, Ana Mirić, Jelena Košarić, Marija Branković, Vladimir P. Petrović. Novel N-pyrocatechoyl and N-pyrogalloyl hydrazones endowed with cytotoxic and antibacterial activity. *Archiv der Pharmazie*, (2024), e2300725; DOI: <https://doi.org/10.1002/ardp.202300725>; ISSN: 0365-6233
- Miroslava Kačaniová, Natália Čmiková, Nenad L. Vukovic, Andrea Verešová, Alessandro Bianchi, Stefania Garzoli, Rania Ben Saad, Anis Ben Hsouna, Zhaojun Ban and **Milena D. Vukic**. *Citrus limon* Essential Oil: Chemical Composition and Selected Biological Properties Focusing on the Antimicrobial (In Vitro, In Situ), Antibiofilm, Insecticidal Activity and Preservative Effect against *Salmonella enterica* Inoculated in Carrot. *Plants*, (2024), vol. 13(4), 524; DOI: <https://doi.org/10.3390/plants13040524>; ISSN: 2223-7747
- Miroslava Kačaniová, Nenad L. Vukovic, Natália Čmiková, Alessandro Bianchi, Stefania Garzoli, Rania Ben Saad, Anis Ben Hsouna, Joel Horacio Elizondo-Luévano, Hussein A. H. Said-Al Ahl, Wafaa M. Hikal and **Milena D. Vukic**. Biological Activity and Phytochemical Characteristics of Star Anise (*Illicium verum*) Essential Oil and Its Anti-Salmonella Activity on Sous Vide Pumpkin Model. *Foods*, (2024), vol. 13(1), 33; ISSN: 2304-8158; e-ISSN: 2304-8158; DOI: <https://doi.org/10.3390/foods13010033>.
- Marina Mitrović, Maja Đukić, **Milena Vukic**, Ivana Nikolic, Marko Radovanović, Jovan Luković, Ignjat Filipović, Sanja Matić, Tijana Marković, Olivera Klisurić, Suzana Popovic, Zoran Matović, Marija Ristić. Search for new biologically active compounds: In vitro studies of antitumor and antimicrobial activity of dirhodium(II,II) paddlewheel complexes. *Dalton Transactions*, (2024) ,53, 9330-9349; ISSN: 1477-9226; DOI: 10.1039/d4dt01082e
- 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, Srećko 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
- **Milena D. Vukic**, Nenad L. Vukovic, Ana D. Obradovic, Suzana Lj. Popovic, Milan M. Zaric, Predrag M. Djurdjevic, Snezana D. Markovic, Dejan D. Baskic. Naphthoquinone rich *Onosma visianii* Clem (*Boraginaceae*) root extracts induce apoptosis and cell cycle arrest in HCT-116 and MDA-MB-231 cancer cell lines. *Natural Product Research*, (2018) vol 32, br. 22, pp 2712-2716; DOI: <https://doi.org/10.1080/14786419.2017.1374271>; ISSN: 1478-6419
- Ana Obradović, Miloš Matić, Branka Ognjanović, Nenad Vuković, **Milena Vukić**, Predrag Djurdjevic, Gordana Ušćumlić, Bojan Božić, Biljana Božić Nedeljković. Anti-Tumor Mechanisms of Novel 3-(4-Substituted Benzyl)-5-Isopropyl-5-Phenylhydantoin Derivatives in Human Colon Cancer Cell Line. *Anti-Cancer Agents in Medicinal Chemistry*, (2019) vol 19 br. (12):1491-1502; DOI: <http://dx.doi.org/10.2174/1871520619666190425180610>; ISSN: 1871-5206;
- **Milena D. Vukic**, Nenad L. Vukovic, Ana Obradovic, Milos Matic, Maja Djukic, Edina Avdovic. Redox status, DNA and HAS binding study of naturally occurring naphthoquinone derivatives.

- Excli Journal*, (2020), vol 19, pp 48-70; DOI: <http://dx.doi.org/10.17179/excli2019-1859>; ISSN: 1611-2156
- Marina Radović Jakovljević, Darko Grujičić, Jovana Tubić Vukajlović, Aleksandra Marković, Milena Milutinović, Milan Stanković, Nenad Vuković, **Milena Vukić**, Olivera Milošević-Djordjević. In vitro study of genotoxic and cytotoxic activities of methanol extracts of *Artemisia vulgaris* L. and *Artemisia alba* Turra. *South African Journal of Botany*, (2020) vol 132, pp 117-126; DOI: <https://doi.org/10.1016/j.sajb.2020.04.016>; ISSN: 0254-6299
 - Veronika Valkova, Hana Duranova, Lucia Galovicova, Nenad L. Vukovic, **Milena Vukic**, and Miroslava Kacaniova. In Vitro Antimicrobial Activity of Lavender, Mint, and Rosemary Essential Oils and the Effect of Their Vapours on Growth of *Penicillium* spp. in a Bread Model System. *Molecules*, (2021), vol 26, 3859; DOI: <https://doi.org/10.3390/molecules26133859> ; ISSN: 1420-3049
 - Marina Radović Jakovljević, Milan Stanković, Nenad Vuković, **Milena Vukić**, Darko Grujičić and Olivera Milošević-Djordjević. Comparative study of the genotoxic activity of *Artemisia vulgaris* L. and *Artemisia alba* Turra extracts in vitro. *Drug and Chemical Toxicology*, (2021), vol 45, No 4, 1915-1922; DOI: <https://doi.org/10.1080/01480545.2021.2007025>; ISSN: 0148-0545
 - Veronika Valková, Hana Dúranová, Nenad L. Vukovic, **Milena Vukic**, Maciej Kluz and Miroslava Kacáňiová. Assessment of Chemical Composition and Anti-Penicillium Activity of Vapours of Essential Oils from *Abies Alba* and Two *Melaleuca* Species in Food Model Systems. *Molecules*, (2022), 27(10), 3101; DOI: <https://doi.org/10.3390/molecules27103101>; ISSN: 1420-3049
 - Jovica Branković, Nevena Milivojević, Vesna Milovanović, Dušica Simijonović, Zorica D. Petrović, Zoran Marković, Dragana S. Šeklić, Marko N. Živanović, **Milena D. Vukić** and Vladimir P. Petrović. Evaluation of antioxidant and cytotoxic properties of phenolic N-acetylhydrazones: structure–activity relationship. *Royal society open science*, (2022) 9, 211853; DOI: <https://doi.org/10.1098/rsos.211853>; ISSN: 2054-5703
 - **Milena D. Vukic**, Ana D. Obradovic, Nenad L. Vukovic, Miroslava Kacáňiová, Predrag M. Djurdjevic, Gorica T. Djelic and Milos M. Matic. Chemical Composition, Antitumor Potential, and Impact on Redox Homeostasis of the Essential Oils of *Orlaya grandiflora* from Two Climate Localities. *Molecules*, (2022), 27, 5908; DOI: <https://doi.org/10.3390/molecules27185908>; ISSN: 1420-3049
 - Veronika Valková, Hana Dúranová, Lucia Galovičová, Nenad L. Vukovic, **Milena Vukic**, Przemysław Łukasz Kowalczewski and Miroslava Kacáňiová. Application of Three Types of Cinnamon Essential Oils as Natural Antifungal Preservatives in Wheat Bread. *Applied Sciences*, (2022), 12(21), 10888; DOI: <https://doi.org/10.3390/app122110888>; ISSN: 2076-3417
 - Jovica Branković, Vesna Matejić, Dušica Simijonović, Zorica D. Petrović, **Milena D. Vukić**, Miroslava Kacaniova, Srđan Rakić, Vladimir Petrović. Molecular encapsulation of the protocatechuic and vanillic acid derivatives with β -cyclodextrin: Structural determination, antibacterial assessment, and molecular docking analysis. *Journal of Molecular Structure*, (2024), vol. 1312 (2024) 138615; ISSN: 0022-2860; e-ISSN: 1872-8014; DOI: <https://doi.org/10.1016/j.molstruc.2024.138615>.
 - Nenad Vukovic, **Milena Vukic**, Gorica Djelic, Jana Hutkova and Miroslava Kacaniova, Chemical Composition and Antibacterial Activity of Essential Oils of Various Plant Organs of Wild Growing *Nepeta cataria* from Serbia. *Journal of Essential Oil Bearing Plants*, (2016) vol. 19, no 6, pp 1404-1412; DOI: <https://doi.org/10.1080/0972060X.2016.1211965> ; ISSN: 0972-060X
 - Danijela Stojković, Alessia Bacchi, Davide Capucci, Milica R Milenković, Božidar Čobeljić, Srećko Trifunović, Katarina Anđelković, Verica V Jevtić, Nenad Vuković, **Milena Vukić**, Dušan Sladić. Synthesis and characterization of palladium(II) complexes with glycine coumarin derivatives. *Journal of Serbian Chemical Society*, (2016) vol 81, no 12, pp 1383–1392; DOI: <https://doi.org/10.2298/JSC160915087S> ; ISSN: 0352-5139
 - D. Lj. Stojković, V. V. Jevtić, N. Vuković, **M. Vukić**, I. Potočňák, I. R. Zelen, M. M. Zarić, M. M. Mišić, D. Baskić, G. N. Kaluđerović, S. R. Trifunović. Crystal and molecular structure of a new palladium(II) complex with a coumarin-valine derivate. *Journal of Structural Chemistry*, (2017) vol. 58, no 3, 550-557; DOI: <https://doi.org/10.1134/S0022476617030179> ; ISSN: 0022-2860
 - Danijela Lj Stojković, Verica V. Jevtić, Nenad Vuković, **Milena Vukić**, Petar Čanović, Milan M. Zarić, Milena M. Mišić, Dragče M. Radovanović, Dejan Baskić, Srećko R. Trifunović. Synthesis, characterization, antimicrobial and antitumor reactivity of new palladium(II) complexes with methionine and tryptophane coumarine derivatives. *Journal of Molecular Structure*, (2018) vol. 1157, pp 425-433; DOI: <https://doi.org/10.1016/j.molstruc.2017.12.095> ; ISSN: 1573-8779
 - Jovana V. Jovankić, Danijela M. Cvetković, Milena G. Milutinović, Danijela D. Nikodijević, Aleksandra G. Nikezić, Filip J. Grbović, Nenad L. Vuković, **Milena D. Vukić**, Dragana Z.

- Jakovljević and Snežana D. Marković. The impact of medicinal plant *Ocimum minimum* L. on fatty acid synthesis process in breast cancer cells. *Biologia*, (2022) 77, 489-501; DOI: <https://doi.org/10.1007/s11756-021-00939-y>; ISSN: 0006-3088
- Dijana Bovan, Tamara Krajnović, Nenad L. Vuković, **Milena D. Vukić**, Sanja Mijatović, Nikola Tanić, Nebojša Arsenijević, Danijela Maksimović-Ivanić. Anoikis and cancer cell differentiation: novel modes of shikonin derivatives anticancer action *in vitro*. *Molecular Biology Reports*, (2024) 51:218; DOI: <https://doi.org/10.1007/s11033-023-09093-x>; ISSN: 0301-4851
 - Nenad L. Vuković, Milena D. Vukić, Gorica T. Đelić, Miroslava M. Kacaniova, Mirjana Cvijović, The investigation of bioactive secondary metabolites of the methanolic extract of *Eryngium amethystinum*. *Kragujevac Journal of Science*. (2018) vol. 40, pp 113-129; DOI: <http://dx.doi.org/10.5937/KgJSci1840113V>; ISSN: 1450-9636
 - Miroslava Kačaniová, Lucia Galovičová, Veronika Valková, Hana Ďuranová, Petra Borotová, Jana Štefániková, Nenad L. Vukovic, **Milena Vukic**, Simona Kunová, Soňa Felsöciová, Katarína Miklášová, Tatsiana Savitskaya, Dmitrij Grinshpan. Chemical composition and biological activity of *Salvia officinalis* essential oil. *Acta hort regiotec*, (2021) 24 (2): 81–88; DOI: <https://doi.org/10.2478/ahr-2021-0028>, ISSN: 1336-2563
 - Petra Borotová, Lucia Galovičová, Veronika Valková, Hana Ďuranová, Nenad Vuković, **Milena Vukić**, Mária Babošová, Miroslava Kačaniová. Biological activity of essential oil from *Foeniculum vulgare*. *Acta hort regiotec*, (2021) 24 (2): 148–152; DOI: <https://doi.org/10.2478/ahr-2021-0037>; ISSN: 1336-2563
 - Ghania Benaiche, Nouredine Belattar, Srećko Trifunović, Nenad Vuković, D. Todorović, Milos Todorović, Dejan Baskic and **Milena Vukic**. Isolation of Alkaloids and Anti-tumor Activity of the Crude Methanolic Extract of Algerian *Cytisus purgans*. *Oriental journal of chemistry*, (2015) vol. 31, no. 4, pp 1943-1948; DOI: <http://dx.doi.org/10.13005/ojc/310411>; ISSN: 0970-020 X
 - Hana Ďuranová, Veronika Valková, Lucia Galovičová, Nenad L. Vukovic, **Milena Vukic**, Miroslava Kačaniová. Antifungal Activities of Essential Oil Obtained from *Mentha spicata* var. Crispa against Selected *Penicillium* Species. *Bilge International Journal of Science and Technology Research*, (2023), vol. 7, Issue 1, 1-8. DOI: <https://doi.org/10.30516/bilgesci.1208483>; ISSN: 2651-401X, e-ISSN: 2651-4028
 - Veronika Valková, Hana Ďuranová, Lucia Galovičová, Nenad L. Vukovic, **Milena Vukic**, Miroslava Kačaniová, Antifungal Efficacy of Mint Essential Oil Against *Penicillium* spp. Inoculated on Carrots. *Bilge International Journal of Science and Technology Research*. (2023), vol. 7, Issue 1, 9-16. DOI: <https://doi.org/10.30516/bilgesci.1208483>; ISSN: 2651-401X, e-ISSN: 2651-4028
 - **Milena D. Vukić**, Jovica Branković, Maja B. Đukić. Chemical composition and biological effects of *Citrus aurantium* var. dulce essential oil. *Acta hort regiotec*, (2023) 26 (1): 14–20, DOI: <https://doi.org/10.2478/ahr-2023-0003>; ISSN: 1336-2563
 - **Milena D. Vukić**, Jovica Branković, Marija S. Ristić. GC, GC/MS analysis, and biological effects of *Citrus aurantium* amara essential oil. *Acta hort regiotec*, (2023) 26 (1): 21–27. DOI: <https://doi.org/10.2478/ahr-2023-0004>; ISSN: 1336-2563

Conferences:

- N. Vuković, **M. Vukić**, D. Stojković, V. Jevtić and Miroslava Kacainova. Seasonal variation in chemical composition, antibacterial and antioxidant activities of essential oils of various plant organs of wild growing *Nepeta cataria* from Serbia. 11th International Scientific Conference of Biotechnology and quality of raw materials and foodstuffs, Nitra, Slovakia, 2016, p. 79; ISBN: 978-80-552-1452-8
- Srećko R. Trifunović, Nenad Vuković, **Milena D. Vukić**, Danijela Lj. Stojković, Dragoslav R. Ilić, Miroslava Kacainova. Antibacterial activity of structurally modified butyrolactones with amino acids. International Scientific Symposium Bioengineering of animal resources 2016, Temišvar, Rumunija, 2016, p. 48; ISSN: 2501-725X; ISSN-L: 2501725X
- **Vukić Milena**, Obradović Ana, Kacaniova Miroslava, Vuković Nenad, Marković Snežana, *Eryngium serbicum* as new source of cytotoxic and antibacterial agents. Serbian Biochemical Society, Sixth Conference, Biochemistry and Interdisciplinarity: Transcending the Limits of Field, 18. november, Belgrade, Serbia, proceedings, 2016., p.161-163. ISBN: 978-86-7220-081-2
- **Milena Vukić**, Ana Obradović, Miloš Matić, Nenad Vuković. *Prooxidative effects of shikonin derivatives in human breast cancer cell line MDA-MB-231*. Serbian Biochemical Society, Eighth Conference, Novi Sad, 2018., p.195-196. ISBN: 978-86-7220-096-6
- **Milena Dejan Vukić**, Nenad Vukovic, Dejan Baskic, Miroslava Kacainova. Examination of Antimicrobial and Cytotoxic Activity of Naphthoquinone Rich Extracts from the Roots of *Onosma visianii* Clem. 1st Molecules Medicinal Chemistry Symposium. Emerging Drug Discovery Approaches against Infectious Diseases, Barcelona, Spain, 8 September 2017. Book of abstract p 96

- **Milena Vukic**, Ana Obradovic, Milos Matic, Edina Avdovic, Nenad Vukovic. Prooxidative effects, DNA and HSA binding of naphthoquinone derivatives. 6th EFMC Young Medicinal Chemist Symposium, Athens, Greece – September 5-6, 2019. Book of abstract. P097, p 138.
- Milena Jovanović, Dragana S. Šeklić, **Milena D. Vukić**, Nenad L. Vuković, Nevena S. Planojević, Snežana D. Marković, Unsaturated fatty acid 10H₂DA content in Serbian royal jelly and its effects on motility of colorectal carcinoma cell lines. The 25th International Electronic Conference on Synthetic Organic Chemistry. Section: Bioorganic, Medicinal and Natural Products Chemistry. <https://sciforum.net/paper/view/11636>
- Gordana P. Radić, Davide Capucci, Alessia Bacchi, Danijela Lj. Stojković, Verica V. Jevtić, Nenad Vuković, **Milena Vukić**, Katarina Anđelković, Srećko R. Trifunović, Synthesis and crystal structure of palladium (II) complex with methyl 2-(1-(2,4-dioxochroman-3-ylidene)ethylamino)acetate. 22nd Conference of the serbian crystallographic society, Smederevo, Srbija, 2015, p. 43; **ISBN: 978-86-912959-2-9**
- Danijela Lj. Stojković, Verica V. Jevtić, Nenad Vuković, **Milena Vukić**, Gordana P. Radić, Ivan Potočnak, Srećko R. Trifunović, Synthesis and crystal structure of 2-acetylbutyrolactone with methyl ester of l-tyrosine. 22nd Conference of the serbian crystallographic society, Smederevo, Srbija, 2015, p. 43; **ISBN: 978-86-912959-2-9**
- D. Stojković, V. Jevtić, S. Trifunović, N. Vuković, **M. Vukić**, I. Potočnak, E. Avdović, S. Jovičić. Synthesis and crystal structure of 3-(1-(3-hydroxypropylamino)ethylidene)chroman-2,4-dione. 23rd Conference of the Serbian Crystallographic society, Andrevlje, 2016., p.85; **ISBN: 978-86-912959-3-6**
- D. Stojković, V. Jevtić, S. Trifunović, N. Vuković, **M. Vukić**, O. Klisurić, E. Avdović, S. Jovičić, Synthesis and crystal structure of methyl ester of phenylalanine ammonium-thiocyanate. 24th Conference of the Serbian Crystallographic society, Vranje, 2017., p.27; **ISBN: 978-86-912959-3-6**
- E. H. Avdović, V. V. Jevtić, N. Vuković, **M. Vukić**, Z. Marković, I. Potočnjak, S. R. Trifunović. Synthesis and crystal structure of 3-(1-O-toluidine-ethylidene)-chroman-2,4-dione. 24th Conference of the Serbian Crystallographic society, Vranje, 2017., p.31; **ISBN: 978-86-912959-3-6**
- **Milena D. Vukić**, Nenad L. Vuković, Danijela Lj. Stojković, Srećko R. Trifunović, Antibacterial and cytotoxic activities of naphthoquinone pigments from *Onosma visianii* Clem. Fourth conference of young chemists of Serbia, Beograd, Srbija, 2016, p. 67; **ISBN: 978-86-7132-064-1**
- Filip Vukajlović, Nenad Vuković, **Milena Vukić**, Snežana Pešić. Odbrambeni sekretari vrste *Meloe proscarabaeus* Linnaeus, 1758 (Coleoptera, Meloidae). Rezimeji X Simpozijuma entomologa Srbije 2015., pp 39;
- **M. Vukić**, N. Vuković, V. Tešević, G. Krstić, P. Vulić. Synthesis and characterization of inclusion complex of acetyl shikonin and β -cyclodextrin. 25th Conference of the Serbian Crystallographic society, Bajina Bašta, 2018., p. 50; **ISBN: 978-86-912959-4-3**
- Marina Radović Jakovljević, Aleksandra Marković, Jovana Tubić, Darko Grujičić, Milan Stanković, Nenad Vuković, **Milena Vukić**, Milena Milutinović, Olivera Milošević-Djordjević. Cytotoxic and genotoxic properties of plant *Artemisia vulgaris*. 6th Congress of the Serbian genetic society, Vrnjačka Banja, 2019., p.123; **ISBN: 978-86-87109-15-5**
- S. Jovičić Milić, V. Jevtić, Đ. Petrović, D. Stojković, N. Vuković, **M. Vukić**, O. Klisurić, M. Kačanić. Synthesis and crystal structure complex of palladium(II) ion with 2-amino-6-chlorobenzotiazole. 27th Conference of the serbian crystallographic society, Kragujevac, Srbija, 2021, p.67; **ISBN 978-86-6009-085-2**
- D. Stojković, V. Jevtić, Đ. Petrović, S. Jovičić Milić, N. Vuković, **M. Vukić**, M. Đukić, O. Klisurić. Synthesis and crystal structure of 2-acetylbutyrolactone with methyl ester of L-tryptophane. 27th Conference of the serbian crystallographic society, Kragujevac, Srbija, 2021, p.29; **ISBN 978-86-6009-085-2**
- Milenković, Dejan, Trifunović, Srećko, Avdović, Edina; Vuković, Nenad; **Vukić, Milena**; Dimitrić-Marković, Jasmina; Marković, Zoran. Experimental and theoretical study of the UV-Vis spectrum of a new coumarine-derived ligand. 2nd EAI International Conference on Future Access Enablers of Ubiquitous and Intelligent Infrastructures (Fabulous 2016), Belgrade 2016
- Danijela Lj. Stojković, Verica V. Jevtić, Đorđe S. Petrović, Sandra S. Jovičić Milić, Nenad L. Vuković, **Milena D. Vukić**, Bojan Stojanović. Synthesis and characterization of platinum (II/IV) complexes with 2-amino-5-methyl-4-phenylthiazole. 1st International Conference on Chemo and Bioinformatics (ICCBKIG 2021), October 26-27, 2021. Kragujevac, Serbia, pp 350-353