

I Research Articles & Review Papers: International Journals Indexed SCI/SCIE/SSCI/A&HCI

1. **Božović M.**, Tadić V., Mladenović M., Ragno R. Essential oil of *Prangos ferulacea* (L.) Lindl.: chemistry and bioactivities. *Plants* **2026**, 15(2): 317.
2. **Božović M.**, Tadić V., Oliva A., Mladenović M., Astolfi R., Ragno R. Phenolic compounds, antioxidant and antimicrobial activities of *Punica granatum* L. fruit extracts. *Molecules* **2026**, 31, 334.
3. Matić S. Lj., Tomašević N., **Božović M.**, Astolfi R., Giuliani L., Ragno R., Mladenović M. Hesperetin's antigenotoxicity: the impact on EMS-made lesions within *Drosophila melanogaster* somatic cells' DNA, disclosed through molecular modeling. *Phytomedicine* **2026**, 150.
4. Džarić T., Petrović D., **Božović M.** Antioxidant activity and total phenolic content of different extracts from *Rosa canina* L. fruits. *Natural Product Communications* **2025**, 20(8).
5. **Božović M.**, Ragno R., Petrović D., Caković D., Garzoli S. Phenylpropanoid-rich essential oils of *Peucedanum longifolium* Waldst. & Kit. from Montenegro and their antioxidant properties. *Natural Product Communications* **2025**, 20(4).
6. **Božović M.**, Petrović D., Caković D., Mladenović M., Ragno R. Phenolic content and antioxidant potential of wine extracts. *Natural Product Communications* **2025**, 20(3).
7. Astolfi R., Oliva A., Raffo A., Sapienza F., Ragno A., Proia E., Mastroianni C.M., Luceri C., **Božović M.**, Mladenović M., Papa R., Bottoni P., Mazzinelli E., Nocca G., Ragno R. Essential oils as antimicrobials against *Acinetobacter baumannii*: experimental and literature data to definite predictive quantitative composition–activity relationship models using machine learning algorithms. *Journal of Chemical Information and Modeling* **2025**, 65(3), 1378-1391.
8. Vuković D., **Božović M.***, Caković D., Petrović D., Živković V. Plant-part chemical composition of essential oils of *Crithmum maritimum* L. from Montenegro. *Natural Product Research* **2024**.
9. Tadić V., **Božović M.[§]**, Sapienza F., Astolfi R., Mladenović M., Zaka M., Del Bove F., Borzacchi F., Frascchetti C., Rossi C., Vertuani S., Baldisserotto A., Manfredini S., Ragno R. Chemical composition and anti-*Candida* activity of *Mentha suaveolens* Ehrh. essential oils obtained by different distillation processes. *Molecules* **2023**, 28(19), 6934.
10. Mladenović M., Astolfi R., Tomašević N., Matić S., **Božović M.**, Sapienza F., Ragno R. *In vitro* antioxidant and *in vivo* antigenotoxic features of a series of 61 essential oils and quantitative composition–activity relationships modeled through machine learning algorithms. *Antioxidants* **2023**, 12(10), 1815.
11. Tomašević N., Vujović M., Kostić E., Ragavendran V., Arsić B., Matić S., **Božović M.**, Fioravanti R., Proia E., Ragno R., Mladenović M. Molecular docking assessment of cathinones as 5-HT_{2A}R ligands: developing of predictive structure-based bioactive conformations and three-dimensional structure-activity. *Molecules* **2023**, 28(17), 6236.
12. Raffo A., Sapienza F., Astolfi R., Lombardi G., Frascchetti C., **Božović M.**, Artini M., Papa R., Trecca M., Fiorentino S., Vecchiarelli V., Papalini C., Selan L., Ragno R. Effect of different soil treatments on production and chemical composition of essential oils extracted from *Foeniculum vulgare* Mill., *Origanum vulgare* L. and *Thymus vulgaris* L. *Plants* **2023**, 12(15), 2835.
13. Vukić M., Vuković N., Mladenović M., Tomašević N., Matić S., Stanić S., Sapienza F., Ragno R., **Božović M.**, Kačániová M. 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**, 11, 2114.
14. Artini M., Papa R., Sapienza F., **Božović M.**, Vrenna G., Guarna Assanti V.T., Sabatino M., Garzoli S., Fiscarelli E.V., Ragno R., Selan L. Essential oil biofilm modulation activity and machine learning analysis of *Pseudomonas aeruginosa* isolates from cystic fibrosis patients. *Microorganisms* **2022**, 10, 887.

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15. **Božović M.**, Garzoli S., Vujović S., Sapienza F., Ragno R. *Foeniculum vulgare* Miller, a new chemotype from Montenegro. *Plants* **2022**, 11, 42.
16. Sabatino M., Fabiani M., **Božović M.**, Garzoli S., Antonini L., Marcocci M.E., Palamara A.T., De Chiara G., Ragno R. Experimental data-based machine learning classification models with predictive ability to select *in vitro* active antiviral and non-toxic essential oils. *Molecules* **2020**, 25, 2452.
17. **Božović M.**, Garzoli S., Baldisserotto A., Andreotti E., Cesa S., Pepi F., Vertuani S., Manfredini S., Ragno R. Variation in essential oil content and composition of *Ridolfia segetum* Moris based on 30-hour prolonged fractionated extraction procedure. *Natural Product Research* **2020**, 34:13, 1923-1926.
18. Oliva A., Garzoli S., Sabatino M., Tadić V., Costantini S., Ragno R., **Božović M.*** Chemical composition and antimicrobial activity of essential oil of *Helichrysum italicum* (Roth) G. Don fil. (Asteraceae) from Montenegro. *Natural Product Research* **2020**, 34:3, 445-448.
19. Patsilinos A., Artini M., Papa R., Sabatino M., **Božović M.**, Garzoli S., Vrenna G., Buzzi R., Manfredini S., Selan L., Ragno R. Machine learning analyses on data including essential oil chemical composition and *in vitro* experimental antibi-film activities against *Staphylococcus* species. *Molecules* **2019**, 24:5, 890.
20. Oliva A., Costantini S., De Angelis M., Garzoli S., **Božović M.**, Mascellino M.T., Vullo V., Ragno R. High potency of *Melaleuca alternifolia* essential oil against multidrug-resistant Gram-negative bacteria and methicillin-resistant *Staphylococcus aureus*. *Molecules* **2018**, 23, 2584.
21. Artini M., Patsilinos A., Papa R., **Božović M.**, Sabatino M., Garzoli S., Vrenna G., Tilotta M., Pepi F., Ragno R., Selan L. Antimicrobial and antibi-film activity and machine learning classification analysis of essential oils from different Mediterranean plants against *Pseudomonas aeruginosa*. *Molecules* **2018**, 23:2, 482.
22. **Božović M.**, Garzoli S., Baldisserotto A., Andreotti E., Pepi F., Cesa S., Manfredini S., Ragno R. *Melissa officinalis* L. subsp. *altissima* (Sibth. & Sm.) Arcang. essential oil: chemical composition and preliminary antimicrobial investigation of samples obtained at different harvesting periods and fractionated extractions. *Industrial Crops and Products* **2018**, 117, 317-321.
23. Garzoli S., **Božović M.***, Baldisserotto A., Andreotti E., Pepi F., Tadić V., Manfredini S., Ragno R. *Sideritis romana* L. subsp. *purpurea* (Tal. ex. Benth.) Heywood, a new chemotype from Montenegro. *Natural Product Research* **2018**, 32:9, 1056-1061.
24. Garzoli S., **Božović M.†**, Baldisserotto A., Sabatino M., Cesa S., Pepi F., Vincentini C.B., Manfredini S., Ragno R. Essential oil extraction, chemical analysis and anti-*Candida* activity of *Foeniculum vulgare* Mill. – new approaches. *Natural Product Research* **2018**, 32:11, 1254-1259.
25. Tadić V., Oliva A., **Božović M.***, Cipolla A., De Angelis M., Vullo V., Garzoli S., Ragno R. Chemical and antimicrobial analyses of *Sideritis romana* L. subsp. *purpurea* (Tal. ex. Benth.) Heywood, an endemic of the Western Balkan. *Molecules* **2017**, 22, 1395.
26. Di Sotto A., Di Giacomo S., Abete L., **Božović M.**, Parisi O., Barile F., Vitalone A., Izzo A., Ragno R., Mazanti G. Genotoxicity assessment of piperitenone oxide: an *in vitro* and *in silico* evaluation. *Food and Chemical Toxicology* **2017**, 106, 506-513.
27. **Božović M.**, Navarra A., Garzoli S., Pepi F., Ragno R. Essential oils extraction: a 24-hour steam distillation systematic methodology. *Natural Product Research* **2017**, 31:20, 2387-2396.
28. **Božović M.**, Ragno R. *Calamintha nepeta* (L.) Savi and its main essential oil constituent pulegone: biological activities and chemistry. *Molecules* **2017**, 22, 290.
29. **Božović M.**, Garzoli S., Sabatino M., Pepi F., Baldisserotto A., Andreotti E., Ramagnoli C., Mai A., Manfredini S., Ragno R. Essential oil extraction, chemical analysis and anti-*Candida* activity of *Calamintha nepeta* (L.) Savi subsp. *glandulosa* (Req.) Ball – new approaches. *Molecules* **2017**, 22:2, 203.
30. Stešević D., **Božović M.**, Tadić V., Rančić D., Dajić Stevanović Z. Plant-part anatomy related composition of essential oils and phenolic compounds in *Chaerophyllum coloratum* L., a Balkan endemic species. *Flora: Morphology Distribution Functional Ecology of Plants* **2016**, 220, 37-51.
31. **Božović M.**, Pirolli A., Ragno R. *Mentha suaveolens* Ehrh. (Lamiaceae) essential oil and its main constituent piperitenone oxide: biological activities and chemistry. *Molecules* **2015**, 20, 8605-8633.

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32. Garzoli S., Pirolli A., Vavala E., Di Sotto A., Sartorelli G., **Božović M.**, Angiolella L., Mazzanti G., Pepi F., Ragno R. Multi-disciplinary approach to determine the optimal time and period for extracting the essential oil from *Mentha suaveolens* Ehrh. *Molecules* **2015**, 20, 9640-9655.

II Research Articles & Review Papers: International Journals NOT Indexed

1. **Božović M.** Riparian vegetation of Montenegro: review of previous researches, importance and vulnerability of these habitats. *Natura Montenegrina* **2011**, 10:3, 201-214.

III Research Articles & Review Papers: National Journals

1. **Božović M.**, Milić M., Radonjić M., Lalić J., Mijanović M., Ajanović E., Perović S. Antibacterial activity of the essential oil of *Hyssopus officinalis* L. (Lamiaceae). *Scripta Scientiarum Naturalium* **2010**, 1: 123-131.

IV Research Articles: International Scientific Conferences

1. **Božović M.**, Knežević B., Stešević D. Flora of the southern part of Piperi (Montenegro), 2nd *International Symposium of Ecologists of the Republic of Montenegro*, September **2006**, Kotor, Montenegro, Proceedings of the Symposium, 101-113.

V Poster & Oral Presentations: International Scientific Congresses/Conferences

1. Džarić T., Petrović D., **Božović M.** Antioxidant activity and total phenolic content of different extracts from *Rosa canina* L. fruits (Montenegro), 5th *International Conference on Plant Biology* (24th SPPS Meeting), October **2024**, Srebrno Jezero, Serbia, Book of abstracts, 142.
2. Mijušković N., Petrović D., **Božović M.**, Antić M. Content of bioactive compounds and antioxidant potential of beetroot peel and pomace (*Beta vulgaris* L.), 5th *International Conference on Plant Biology* (24th SPPS Meeting), October **2024**, Srebrno Jezero, Serbia, Book of abstracts, 141.
3. Antić M., **Božović M.**, Petrović D., Mijušković N. Phenolic content and antioxidant potential of different extracts from *Cornus mas* L. fruits from Montenegro, 5th *International Conference on Plant Biology* (24th SPPS Meeting), October **2024**, Srebrno Jezero, Serbia, Book of abstracts, 140.
4. **Božović M.**, Petrović D., Caković D. Phenolic content and antioxidant potential of wine extracts, 5th *International Conference on Plant Biology* (24th SPPS Meeting), October **2024**, Srebrno Jezero, Serbia, Book of abstracts, 108.
5. Vuković D., **Božović M.***, Caković D., Petrović D., Živković V. Plant-part chemical composition of essential oils of *Crithmum maritimum* L. from Montenegro, 7^o *Congresso Nazionale della SIROE*, July **2023**, Rome, Italy, Oral presentation.
6. Tadić V., **Božović M.**, Sabatino M., Sapienza F., Zaka M., Del Bove F., Borzacchi F., Rossi C., Vertuani S., Baldisserotto A., Manfredini S., Ragno R. Chemical composition investigation and anti-*Candida* activity of *Mentha suaveolens* Ehrh. essential oils obtained by continuous and fractionated hydrodistillation and steam distillation, 7^o *Congresso Nazionale della SIROE*, July **2023**, Rome, Italy, Poster presentation.
7. **Božović M.**, Vujović S., Rakočević J., Garzoli S., Ragno R. The effects of phenophase on essential oil quality and quantity, 6^o *Congresso Nazionale della SIROE*, October **2019**, Bologna, Italy, Poster presentation.
8. Vujović S., Rakočević J., **Božović M.** Herbs in pregnancy: is natural always safe? *Montenegrin International Medical Summit*, October **2019**, Podgorica, Montenegro, Abstract Book, 81.
9. Rakočević J., Vujović S., **Božović M.** Anxiety – daily emotion or problem? *Montenegrin International Medical Summit*, October **2019**, Podgorica, Montenegro, Abstract Book, 72.
10. **Božović M.**, Ragno R. Prolonged and fractionated steam distillation methodology for essential oil extraction, 7th *International Symposium of Ecologists of the Republic of Montenegro*, October **2017**, Sutomore, Montenegro, Abstract Book, 146.
11. Papa R., Vrenna G., **Božović M.**, Ragno R., Selan L., Artini M. Essential oils against *Staphylococcus* spp. and *Pseudomonas aeruginosa* biofilms, 1709 *Eubiofilms Congress*, September **2017**, Amsterdam, The Netherlands, Abstract Book, 118.

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12. **Božović M.**, Ragno R. A 24-hour systematic steam distillation methodology for essential oil extraction, *4^o Congresso Nazionale della SIROE*, November **2016**, Rome, Italy, Oral presentation.
13. **Božović M.**, Ragno R. Biological activities of essential oils and extracts of a selection of plant species, *Workshop sulla Ricerca: Dipartimento di Chimica e Tecnologie del Farmaco*, September **2015**, Rome, Italy, Oral presentation.
14. Pirolli A., **Božović M.**, Sabatino M., Ragno R. Chemoinformatics in drug discovery: different fields of application and future perspectives, *Workshop sulla Ricerca: Dipartimento di Chimica e Tecnologie del Farmaco*, September **2015**, Rome, Italy, Oral presentation.
15. Bojović D., Tadić V., Stešević D., Arsić I., Šoškić M., **Božović M.** Hemijska analiza etarskog ulja *Satureja cuneifolia* Ten. (Lamiaceae) i mogućnost njene primjene, *Drugi Kongres farmaceuta Crne Gore*, maj **2015**, Budva, Crna Gora, Zbornik sažetaka, 28.
16. **Božović M.**, Tadić V., Arsić I., Stešević D. Comparative anatomical and chemical studies on endemic *Chaerophyllum coloratum* L. (Apiaceae) from Montenegro, *17th International Congress Phytopharm*, July **2013**, Vienna, Austria, Abstract Book, 93.
17. Perović S., **Božović M.**, Perović A., Šuković D., Damjanović-Vratnica B. Chemical composition and antibacterial effect of the essential oil of *Hyssopus officinalis* L. (Lamiaceae) from Montenegro, *42nd International Symposium of Essential Oils*, September **2011**, Antalya, Turkey, Poster presentation.
18. **Božović M.** Riparian vegetation of Montenegro: review of previous researches, importance and vulnerability of these habitats, *4th International Symposium of Ecologists of the Republic of Montenegro*, October **2010**, Budva, Montenegro, The book of abstracts and program, 53.
19. Perović S., Mijanović M., **Božović M.**, Perović A., Krivokapić S. *In vitro* antibacterial activity of several honeys from area of Montenegro, *4th International Symposium of Ecologists of the Republic of Montenegro*, October **2010**, Budva, Montenegro, The book of abstracts and program, 123.
20. **Božović M.**, Damjanović-Vratnica B., Šuković D., Perović S. Chemical composition and antibacterial activity of essential oil of *Chaerophyllum coloratum* L. (Apiaceae), *2nd Symposium of Chemistry and Environment*, September **2009**, Bar, Montenegro, Book of Abstracts, 73.
21. Leka Z., Miljanić N., **Božović M.**, Perović S. Antibacterial effect of newly synthesized dithiocarbamate K-DAAP, *2nd Symposium of Chemistry and Environment*, September **2009**, Bar, Montenegro, Book of Abstracts, 175.
22. **Božović M.**, Knežević B., Stešević D. Flora of the southern part of Piperi (Montenegro), *2nd International Symposium of Ecologists of the Republic of Montenegro*, September **2006**, Kotor, Montenegro, The Book of Abstracts and Program, 32-33.
23. Petrović D., Vuksanović S., **Božović M.** *Cypripedium calceolus* L. – new finding in Montenegro, *2nd International Symposium of Ecologists of the Republic of Montenegro*, September **2006**, Kotor, Montenegro, The book of abstracts and program, 34.
24. **Božović M.**, Knežević B., Stešević D. The contribution to the knowledge of the flora of southern part of Piperi (Montenegro), *1st International Symposium of Ecologists of the Republic of Montenegro*, October **2004**, Tivat, Montenegro, Abstract Book, 21.

VI Poster & Oral Presentations: National Scientific Congresses/Conferences

1. **Božović M.** Prilog poznavanju flore južnih Pipera, *Contemporary Mathematics, Physics and Biology: Workshop devoted to the 25th anniversary of the Faculty of Sciences of the University of Montenegro*, Podgorica, Montenegro, **2005**, Oral Presentation.

VII Editorials

1. **Božović M.**, Mladenović M., Ragno R. Editorial: Chemical composition and antimicrobial activity of essential oils, *Frontiers in Pharmacology*, 14, **2023**.

VIII Others

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1. **Božović M.** (doctoral dissertation): Multidisciplinary approach in determination of optimal conditions for essential oil extraction from selected Lamiaceae and Apiaceae species, Sapienza University of Rome, Faculty of Pharmacy and Medicine, January **2017**.
2. **Božović M.** (master thesis): Hemijski sastav i antibakterijska aktivnost etarskog ulja *Chaerophyllum coloratum* L., Univerzitet Crne Gore, Prirodno-matematički fakultet, oktobar **2009**.