

Erika Dobroslavić

Researcher



Personal details

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-  Croatian
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Skills

- Communication 
- Teamwork 
- Time management 
- Analytical thinking 

Reviewer roles

-  Separations
-  Horticulturae
-  Biology
-  Applied Sciences
-  Foods
-  Sustainability

Education

PhD Biotechnical Sciences

Mar 2021 - Dec 2023

University of Zagreb, Faculty of Food Technology and Biotechnology, Zagreb

During this period I worked on different extraction and encapsulation techniques of bioactive compounds derived from medicinal plants and their identification through chromatographic techniques. I graduated summa cum laude with a thesis entitled "Advanced extraction techniques and encapsulation of laurel leaf polyphenols".

Master of Dermatopharmacy and Cosmetology

Mar 2021 - Sep 2022

University of Zagreb, Faculty of Pharmacy and Biochemistry, Zagreb

During this post-graduate specialization I focused on applying bioactive compounds in cosmetics.

Master of Nutrition Science

Sep 2018 - Jul 2020

University of Zagreb, Faculty of Food Technology and Biotechnology, Zagreb

Bachelor of Nutriron Science

Sep 2015 - Sep 2018

University of Zagreb, Faculty of Food Technology and Biotechnology, Zagreb

Employment

Researcher

Oct 2024 - Present

University of Dubrovnik, Department of Applied Ecology, Dubrovnik, Croatia

I am currently a researcher working on the project "Development support of blue biorefinery in the Adriatic Sea".

Research Assistant

Oct 2020 - Aug 2024

University of Zagreb, Faculty of Food Technology and Biotechnology, Zagreb

I worked at the Department of Food Engineering, Laboratory for Chemistry and Technology of Fruits and Vegetables where I was involved in several research projects on plant derived bioactive compounds and functional food application where I developed skills in bioactive compounds' isolation, identification and quantification., as well as application in various purposes. During this time, I have coauthored 14 research papers and have performed over 30 reviews for various journals and have also been assigned as a field editor, which made me want to pursue other roles involved in the process of publication of papers.

Publications

- Cegledi, Ena; Dobroslavić, Erika; Pedisić, Sandra; Magnabosca, Ivan; Zorić, Marija; Pavić, Rina; Šuto, Marija; Štagl, Otilija; Repajić, Maja; Elez Garofulić, IvonaGreen Approaches for the Extraction of Banana Peel Phenolics Using Deep Eutectic Solvents // *Molecules*, 29 (2024), 15; 3672, 16. doi: 10.3390/molecules29153672
- Repajić, Maja; Elez Garofulić, Ivona; Marčac Duraković, Nina; Balun, Marta; Cegledi, Karla; Cegledi, Ena; Dobroslavić, Erika; Dragović-Uzelac, VericaPhysico-Chemical Characterization of Encapsulated Fennel Essential Oil under the Influence of Spray-Drying Conditions // *Processes*, 12 (2024), 3; 577, 21. doi: 10.3390/pr12030577

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- Discover Food
- International Journal of Environmental Studies
- Discover Chemistry
- Food and Bioprocess Technology

Languages

English	
German	
Croatian	

3. Elez Garofulić, Ivona; Repajić, Maja; Cegledi, Ena; Dobroslavić, Erika; Dobrinčić, Ana; Zorić, Zoran; Pedisić, Sandra; Franković, Tatjana; Breški, Martina; Dragović-Uzelac, VericaGreen Approach to Enhance the Recovery of Polyphenols from Blackcurrant and Bilberry Leaves: Evaluation of Microwave-Assisted and Pressurized Liquid Extraction // *Molecules*, 29 (2024), 6; 1351, 19. doi: 10.3390/molecules29061351

4. Dobroslavić, Erika; Cegledi, Ena; Robić, Katarina; Elez Garofulić, Ivona; Dragović-Uzelac, Verica; Repajić, MajaEncapsulation of Fennel Essential Oil in Calcium Alginate Microbeads via Electrostatic Extrusion // *Applied sciences (Basel)*, 14 (2024), 8; 3522, 18. doi: 10.3390/app14083522

5. Cegledi, Ena; Dobroslavić, Erika; Zorić, Zoran; Repajić, Maja; Elez Garofulić, IvonaAntioxidant Activity of Carob Tree (*Ceratonia siliqua* L.) Leaf Extracts Obtained by Advanced Extraction Techniques // *Processes*, 12 (2024), 4; 658, 17. doi: <https://doi.org/10.3390/pr12040658>

6. Dobroslavić, Erika; Zorić, Zoran; Dragović-Uzelac, Verica; Elez Garofulić, IvonaMicroencapsulation of *Laurus nobilis* L. Leaf Extract in Alginate-Based System via Electrostatic Extrusion // *Foods*, 2023 (2023), 12; 3242, 15. doi: 10.3390/foods12173242

7. Jović, Tanja ; Elez Garofulić, Ivona ; Čulina, Patricija ; Pedisić, Sandra ; Dobroslavić, Erika ; Cegledi, Ena ; Dragović-Uzelac, Verica ; Zorić, ZoranThe Effect of Spray-Drying Conditions on the Characteristics of Powdered Pistacia lentiscus Leaf Extract // *Processes*, 11 (2023), 4; 1229, 12. doi: 10.3390/pr11041229

8. Terpinc, Petra; Dobroslavić, Erika; Elez , Ivona; Repajić, Maja; Cegledi, Ena; Dobrinčić, Ana; Pedisić, Sandra; Levaj, BrankaMaximizing the Recovery of Phenolic Antioxidants from Wild Strawberry (*Fragaria vesca*) Leaves Using Microwave-Assisted Extraction and Accelerated Solvent Extraction // *Processes*, 11 (2023), 12; 3378, 22. doi: <https://doi.org/10.3390/pr11123378>

9. Dobroslavić, Erika ; Elez Garofulić, Ivona ; Zorić, Zoran ; Pedisić, Sandra ; Roje, Marin ; Dragović- Uzelac, VericaPhysicochemical Properties, Antioxidant Capacity, and Bioavailability of *Laurus nobilis* L. Leaf Polyphenolic Extracts Microencapsulated by Spray Drying // *Foods*, 12 (2023), 9; 1923, 18. doi: 10.3390/foods12091923

10. Dobroslavić, Erika ; Elez Garofulić, Ivona ; Šeparović, Jelena ; Zorić, Zoran ; Pedisić, Sandra ; Dragović-Uzelac, VericaPressurized Liquid Extraction as a Novel Technique for the Isolation of *Laurus nobilis* L. Leaf Polyphenols // *Molecules*, 27 (2022), 16; 5099, 13. doi: 10.3390/molecules27165099

11. Dobrinčić, Ana ; Dobroslavić, Erika ; Pedisić, Sandra ; Balbino, Sandra ; Elez Garofulić, Ivona ; Čož-Rakovac, Rozelindra ; Dragović-Uzelac, VericaThe effectiveness of the *Fucus virsoides* and *Cystoseira barbata* fucoidan isolation as a function of applied pre-treatment and extraction conditions // *Algal research*, 56 (2021), 102286, 10. doi: 10.1016/j.algal.2021.102286

12. Dobroslavić, Erika ; Elez Garofulić, Ivona ; Zorić, Zoran ; Pedisić, Sandra ; Dragović-Uzelac, VericaPolyphenolic Characterization and Antioxidant Capacity of *Laurus nobilis* L. Leaf Extracts Obtained by Green and Conventional Extraction Techniques // *Processes*, 9 (2021), 10; 1840, 20. doi: 10.3390/pr9101840

13. Dobroslavić, Erika ; Elez Garofulić, Ivona ; Ilich, Jasminka Z.Potential of Laurel (*Laurus nobilis* L.) Leaf Polyphenols for Modulation of Body Composition // *Applied sciences (Basel)*, 13 (2023), 4; 2275, 17. doi: 10.3390/app1304227514.

Dobroslavić, Erika ; Repajić, Maja ; Dragović-Uzelac, Verica ; Elez Garofulić, IvonaIsolation of *Laurus nobilis* Leaf Polyphenols: A Review on Current Techniques and Future Perspectives // *Foods*, 11 (2022), 2; 235, 23. doi: 10.3390/foods11020235.

Congresses

1. Cegledi, Ena; Dobroslavić, Erika; Didović, Iva; Alerić, Jelena; Dragović-Uzelac, Verica Maximizing Antioxidants and Minimizing Waste: Ultrasound-Assisted Extraction of Berry Leaves // Book of Abstracts of the 12th Central European Conference on Food 2024 (CEFood 2024) / Sarkadi, Livia Simon; Kovács, Béla; Friedrich, László Ferenc et al. (ur.).-, 2024. str. 71-71
2. Elez Garofulić, Ivona; Repajić, Maja; Cegledi, Ena; Brkljačić, Marta; Dobroslavić, Erika; Dragović-Uzelac, Verica Unlocking the potential of blueberry pomace: Optimizing microwave-assisted extraction for the recovery of bioactive compounds // Book of Abstracts of the 12th Central European Conference on Food 2024 (CEFood 2024) / Sarkadi, Livia Simon; Kovács, Béla; Friedrich, László Ferenc et al. (ur.).-, 2024. str. 55-55
3. Cegledi, Ena; Dobroslavić, Erika; Rukavina, Matea; Repajić, Maja; Dragović-Uzelac, Verica Primjena ubrzane ekstrakcije otapalima za izolaciju bioaktivnih spojeva iz komine borovnice // 20th International Conference Ružička Days : Today Science – Tomorrow Industry : Book of Abstracts / Jukić, Ante; Ocelić Bulatović, Vesna; Kučić Grgić, Dajana (ur.). Zagreb, Osijek: Hrvatsko društvo kemijskih inženjera i tehnologa, Sveučilište Josipa Jurja Strossmayera u Osijeku, Prehrambeno-tehnološki fakultet Osijek, 2024. str. 69-69
4. Elez Garofulić, Ivona; Repajić, Maja; Pedisić, Sandra; Dobroslavić, Erika; Zorić, Zoran; Dragović-Uzelac, Verica Fatty acid profile of sea buckthorn pulp oil isolated by supercritical carbon dioxide extraction // 7th International ISEKI-Food Conference „Next-generation of food research, education and industry“ : book of abstracts / Vieira, Margarida ; Moussa, Marwen ; Costa, Rui (ur.). Beč: ISEKI-Food Association, 2023. str. 181-181. doi: <https://doi.org/10.34623/5jyp-pa83>
5. Dobrinčić, Ana ; Brunović, Barbara ; Repajić, Maja ; Cegledi, Ena ; Dobroslavić, Erika ; Dragović-Uzelac, Verica ; Levaj, Branka Stability of minimally processed apple treated with laurel (*Laurus nobilis* L.) essential oil // Book of Abstracts of the 2nd International Conference on Advanced Production and Processing. Novi Sad: Tehnološki fakultet Univerziteta u Novom Sadu, 2022. str. 96-96
6. Dobroslavić, Erika ; Cegledi, Ena ; Zorić, Zoran ; Elez Garofulić, Ivona ; Dragović-Uzelac, Verica Bioavailability of *L. nobilis* leaf polyphenols encapsulated by spray-drying // 7th Croatian Congress of Microbiology with International Participation, Book of Abstracts. Zagreb: Hrvatsko mikrobiološko društvo, 2022. str. 52-52
7. Dobroslavić, Erika ; Majerić, Laura ; Repajić, Maja ; Elez Garofulić, Ivona ; Cvitković, Daniela ; Dragović-Uzelac, Verica Antioxidant stability of medicinal plants' hydrosols during storage // CEFood Congress Book "Food, technology and nutrition for healthy people in a healthy environment". Ljubljana, 2022. str. 70-70
8. Repajić, Maja ; Balbino, Sandra ; Dobroslavić, Erika ; Cvitković, Daniela ; Cegledi, Ena ; Levaj, Branka ; Dragović-Uzelac, Verica Alginate-based beads: encapsulation of sage essential oil by electrostatic extrusion // Book of Abstracts of the World Aquaculture 2021. 2022. str. 205-205
9. Cegledi, Ena ; Dobrinčić, Ana ; Dobroslavić, Erika ; Repajić, Maja ; Dragović-Uzelac, Verica Influence of solvent and material proportion during microwave-assisted extraction of *Dictyota dichotoma* and *Thymus vulgaris* pigments // Book of Abstracts of the 2nd International Conference on Advanced Production and Processing. Novi Sad: Tehnološki fakultet Univerziteta u Novom Sadu, 2022. str. 84-84
10. Dobrinčić, Ana ; Dobroslavić, Erika ; Piasecka, Iga ; Cegledi, Ena ; Zorić, Zoran ; Pedisić, Sandra ; Dragović-Uzelac, Verica Polyphenol profiles and antioxidant capacity of different berry fruit pomace and seeds // BOOK OF

ABSTRACTS 10th International Congress of Food Technologists, Biotechnologists and Nutritionists. Zagreb: Hrvatsko društvo prehrambenih tehnologa, biotehnologa i nutricionista, 2022. str. 199-200

11. Dobroslavić, Erika ; Elez Garofulić, Ivona ; Zorić, Zoran ; Josipović, Marija Kristina ; Kolanović, David ; Dragović-Uzelac, Verica INKAPSULACIJA POLIFENOLNOG EKSTRAKTA LISTA LOVORA (*Laurus nobilis* L.) PRIMJENOM SUŠENJA RASPRŠIVANJEM I ELEKTROSTATSKE EKSTRUZIJE // 19 th Ružička Days TODAY SCIENCE – TOMORROW INDUSTRY. Osijek : Zagreb: Prehrambeno tehnološki fakultet Sveučilišta Josipa Jurja Strossmayera u Osijeku, 2022. str. 97-97

12. Dobroslavić, Erika ; Elez Garofulić, Ivona ; Zorić, Zoran ; Dobrinčić, Ana ; Dragović-Uzelac, Verica Polyphenolic profile of bay leaves (*Laurus nobilis* L.) collected in two coastal regions of Croatia // BOOK OF ABSTRACTS 10th International Congress of Food Technologists, Biotechnologists and Nutritionists. Zagreb: Hrvatsko društvo prehrambenih tehnologa, biotehnologa i nutricionista, 2022. str. 201-202

13. Dobrinčić, Ana ; Dobroslavić, Erika ; Cegledi, Ena ; Elez Garofulić, Ivona ; Dragović-Uzelac, Verica Influence of microwave-assisted extraction parameters on brown algae *Dictyota dichotoma* polyphenols // The 4th International Congress on "Green Extraction of Natural Products" (GENP2022) Book of Abstracts. Zagreb: Prehrambeno-biotehnološki fakultet Sveučilišta u Zagrebu, 2022. str. 49-49

14. Balbino, Sandra ; Repajić, Maja ; Dobroslavić, Erika ; Cvitković, Daniela ; Cegledi, Ena ; Dobrinčić, Ana ; Dragović-Uzelac, Verica Brown seaweed alginate as carrier for *Myrtus communis* essential oil stabilization by electrostatic extrusion // Book of Abstracts of the World Aquaculture 2021. 2022. str. 23-23

15. Cegledi, Ena ; Repajić, Maja ; Marčac, Nina ; Elez Garofulić, Ivona ; Cegledi, Karla ; Dobroslavić, Erika ; Dragović-Uzelac, Verica Influence of temperature and carrier ratio on fennel essential oil powder obtained by spray drying // Book of Abstracts of the 10th International Congress of Food Technologists, Biotechnologists and Nutritionists. Zagreb, 2022. str. 11-12

16. Cegledi, Ena ; Dobroslavić, Erika ; Dobrinčić, Ana ; Cvitković, Daniela ; Mrvčić, Jasna ; Dragović-Uzelac, Verica Green synthesis of silver nanoparticles using nettle (*Urtica dioica* L.), myrtle (*Myrtus communis* L.) and bay laurel (*Laurus nobilis* L.) leaf extracts // Natural resources, green technology and sustainable development, Book of abstracts. Zagreb: Prehrambeno-biotehnološki fakultet Sveučilišta u Zagrebu, 2022. str. 133-133

17. Dobrinčić, Ana ; Cegledi, Ena ; Dobroslavić, Erika ; Cvitković, Daniela ; Mrvčić, Jasna ; Dragović-Uzelac, Verica Green synthesis of silver nanoparticles using seaweed *Fucus virosides* and *Cystoseira barbata* extracts // Natural resources, green technology and sustainable development. Zagreb: Prehrambeno-biotehnološki fakultet Sveučilišta u Zagrebu, 2022. str. 128-128

18. Dobroslavić, Erika ; Cegledi, Ena ; Dobrinčić, Ana ; Elez Garofulić, Ivona ; Zorić, Zoran ; Pedisić, Sandra ; Dragović-Uzelac, Verica PHENOLIC CONTENT AND ANTIOXIDANT ACTIVITY OF CAROB (*Ceratonia siliqua* L.) LEAF EXTRACTS OBTAINED BY GREEN EXTRACTION TECHNIQUES // Book of Abstracts of the 2nd International Conference on Advanced Production and Processing publishes abstracts from the following fields: Innovative Food Science and Bioprocesses, Nutraceuticals and Pharmaceuticals, Sustainable Development, Chemical and Environmental Engineering, Materials Design and Applications, Petroleum Refining and Production. Novi Sad: Tehnološki fakultet Univerziteta u Novom Sadu, 2022. str. 83-83

19. Dobroslavić, Erika ; Cegledi, Ena ; Dobrinčić, Ana ; Elez Garofulić, Ivona ; Dragović-Uzelac, Verica Isolation of *Thymus Vulgaris* L. Leaf polyphenols by microwave-assisted extraction // The 4th International Congress on "Green

Extraction of Natural Products"(GENP2022) Book of Abstracts.Poreč:
Prehrambeno-biotehnološki fakultet Sveučilišta u Zagrebu, 2022. str. 44-44

20. Cegledi, Ena ; Repajić, Maja ; Marčac, Nina ; Elez Garofulić, Ivona ; Balun, Marta ; Dobroslavić, Erika ; Dragović-Uzelac, VericaInkapsulacija eteričnog ulja komorača primjenom sušenja raspršivanjem // International conference 19.Ružička days "TODAY SCIENCE-TOMORROW INDUSTRY".Osijek, 2022. str. 94-94

21. Levaj, Branka ; Dobrinčić, Ana ; Cegledi, Ena ; Dobroslavić, Erika ; Čošić, Zrinka ; Dragović- Uzelac, Verica ; Repajić, MajaShelf-life of fresh-cut potatoes treated with laurel essential oil during refrigerated storage // CEFood Congress Book "Food, technology and nutrition for healthy people in a healthy environment". Ljubljana, 2022. str. 192-192

22. Dobroslavić, Erika ; Elez Garofulić, Ivona ; Dragović-Uzelac, VericaUbrzana ekstrakcija fenolnih spojeva iz lista lovora (*Laurus nobilis* L.) pri povišenom tlaku // Knjiga sažetaka s 13. međunarodnog znanstveno- stručnog skupa HRANOM DO ZDRAVLJA.Osijek : Tuzla: Prehrambeno tehnološki fakultet Sveučilišta Josipa Jurja Strossmayera u Osijeku ; Tehnološki fakultet Univerziteta u Tuzli, 2021. str. 64-65

23. Levaj, Branka ; Dobrinčić, Ana ; Cegledi, Ena ; Dobroslavić, Erika ; Cvitković, Daniela ; Dragović-Uzelac, Verica ; Repajić, MajaFresh-cut potatoes treated with fennel essential oil: shelf-life during refrigerated storage // Book of Abstracts of the 13th International Scientific and Professional Conference WITH FOOD TO HEALTH.Osijek : Tuzla, 2021. str. 152-152

24. Dobroslavić, Erika ; Elez Garofulić, IvonaEkstrakcija fenolnih spojeva iz lovora (*Laurus nobilis* L.) primjenom naprednih tehnika ekstrakcije // Zbornik sažetaka 1. znanstvene doktorske konferencije Geotehničkoga fakulteta "Istraživanja u inženjerstvu okoliša".Varaždin: Geotehnički fakultet Sveučilišta u Zagrebu, 2021. str. 18-19

25. Erika Dobroslavic, Ivona Elez Garofulic, Zoran Zorić, Sandra Pedisić, Ana Dobrinčić, Verica Dragovic-Uzelac, Patricija Lisicalsolation of bay laurel (*Laurus nobilis* L.) leaf polyphenols using green extraction techniques // 35th EFFoST International Conference 2021 Healthy Individuals, Resilient Communities, and Global Food Security.

Courses

Climate-smart fisheries and aquaculture	Jan 2024
Sustainable Food Systems: A Mediterranean Perspective	Jul 2019
Sustainable Tourism: Society & Environmental Aspects	Jan 2019
Winter School of Research Commercialization	Nov 2020