

Dr Boris Popović, redovni profesor

Uža naučna oblast: Hemija i biohemija

Oblast naučnog interesovanja: Prirodne eutektičke smeše i formulacije na bazi ovih rastvarača (NADES, APIDES, THEDES), Nanoformulacije, Sistemi za dostavu farmaceutika, Biodostupnost, Nutraceutici i funkcionalna hrana, Zelena hemija

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Telefon: +381 21 485 3424

Veb-sajt: www.apideslab.com

Obrazovanje

- **Dipl. hem. (2000)** – Prirodno-matematički fakultet u Novom Sadu, smer – diplomirani-hemičar
- **Magistar nauka (2004)** - Prirodno-matematički fakultet, u Novom Sadu, smer - biohemija
- **Doktor nauka (2006)** - Prirodno-matematički fakultet u Novom Sadu, oblast hemija

Odabrane publikacije

1. **Popović, B. M.**, Uka, D., Alioui, O., Pavlović, R. Ž., & Benguerba, Y. (2022). Experimental and COSMO-RS theoretical exploration of rutin formulations in natural deep eutectic solvents: Solubility, stability, antioxidant activity, and bioaccessibility. *Journal of Molecular Liquids*, 359, 119266. [M21, IF₂₀₂₁=6,633]
2. Blagojević, B., Četojević-Simin, D., Djurić, S., Lazzara, G., Milioto, S., Agić, D., ... & **Popović, B. M.** (2022). Anthocyanins and phenolic acids from *Prunus spinosa* L. encapsulation in halloysite and maltodextrin based carriers. *Applied Clay Science*, 222, 106489. [M21a, IF₂₀₂₁=5,907]
3. **Popovic, B. M.**, Micic, N., Potkonjak, A., Blagojevic, B., Pavlovic, K., Milanov, D., & Juric, T. (2022). Novel extraction of polyphenols from sour cherry pomace using natural deep eutectic solvents–Ultrafast microwave-assisted NADES preparation and extraction. *Food Chemistry*, 366, 130562. [M21a, IF₂₀₂₀=9,231]
4. Jurić, T., Mičić, N., Potkonjak, A., Milanov, D., Dodić, J., Trivunović, Z., & **Popović, B. M.** (2021). The evaluation of phenolic content, in vitro antioxidant and antibacterial activity of *Mentha piperita* extracts obtained by natural deep eutectic solvents. *Food Chemistry*, 130226. [M21a, IF₂₀₂₀=7,514]
5. Jurić, T., Uka, D., Holló, B. B., Jović, B., Kordić, B., & **Popović, B. M.** (2021). Comprehensive physicochemical evaluation of choline chloride-based natural deep eutectic solvents. *Journal of Molecular Liquids*, 116968. [M21, IF₂₀₂₀=6,165]
6. Agić, D., Karnaš, M., Šubarić, D., Lončarić, M., Tomić, S., Karačić, Z., Bešlo, D., Rastija V., Molnar, M., **Popović, B.M.** & Lisjak, M. (2021). Coumarin Derivatives Act as Novel Inhibitors of Human Dipeptidyl Peptidase III: Combined In Vitro and In Silico Study. *Pharmaceuticals*, 14(6), 540. [M21, IF₂₀₂₀=5,863]
7. **Popović, B. M.**, Blagojević, B., Kucharska, A. Z., Agić, D., Magazin, N., Milović, M., & Serra, A. T. (2021). Exploring fruits from genus *Prunus* as a source of potential pharmaceutical agents–In vitro and in silico study. *Food Chemistry*, 358, 129812. [M21a, IF 6,306].

Odabrani projekti

1. Science Fund project (program IDEAS): "Active Pharmaceutical Ingredient Deep Eutectic Solvents as Novel Therapeutic Agents and Food Supplements", (APIDES), #GRANT No. 7731993, 2022-2024.
2. IPA project: "Joint development of higher education and training programmes in plant biology in support of knowledge-based society" (PLANTTRAIN), ID: HUSBR/1203/221/173; 2015-2016 (local coordinator)
3. IPA project: Oxidative stress tolerance in plants plants: from models to trees (OXIT), Contract Number: HUSRB/1002/214/036; 2012-2013 (participant)
4. Functional products based on cereals designed for people with metabolic disorders, TR 31029; 2011-2015(participant).
5. Antioxidant activity of honey and honey supplied with dried fruit, 114-451-2093/2011-03; 2011-2014(participant).

Akadske aktivnosti

Nastava iz uže naučne oblasti hemija i biohemija na osnovnim akademskim, master i doktorskim studijama:

- na OAS: **Hemija, Medicinska hemija i Funkcionalna hrana**;
- na MAS: Zelena hemija u poljoprivredi, Nutraceutici i funkcionalna hrana, Antioksidantni sistem i oksidativni stres;
- na DAS: Instrumentalna analiza, Biološki aktivne komponente hrane, Zelena hemija u proizvodnji hrane.

Usavršavanja u inostranstvu:

- SAD (Michigan State University, **Norman Borlaug Fellowship**, mesec i po dana),
- Mađarska (Department of plant biology, Segedin, IPA projekat, 2013, mesec dana),
- Portugalija (IBET institut, Lisabon, **Sigma Agile Fellowship**, 3 meseca),
- Italija (Università degli Studi di Palermo, Palermo, **gostujući profesor**, 2 meseca, 2017).

Članstvo u udruženjima

- Srpskog hemijskog društva
- Biohemijsko društvo Srbije
- Društva za fiziologiju biljaka Republike Srbije
- Federation of European Societies of Plant Biology (FESPB)

Ostale aktivnosti

- Zaključno sa 2022: 130 objavljen rad pri čemu je **52** sa SCI liste;
- Ukupan broj citata je **937**
- h-indeks **19**
- Recenzije u časopisima sa impakt faktorom
- Učešće na mnogim domaćim i međunarodnim skupovima
- Govori, čita i piše engleski jezik

Professor Boris Popović, Ph.D. Full Professor

Narrow scientific field: Chemistry and biochemistry

Scientific interests: Deep eutectic solvents and formulations based on them (NADES, APIDES, THEDES), Nanoformulations, Delivery systems, Bioavailability, Nutraceuticals and functional foods, Green chemistry

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Academic qualifications

- **B.Sc.** (2000) - University of Novi Sad, Faculty of Sciences, field of chemistry
- **M.Sc.** (2004) - University of Novi Sad, Faculty of Sciences, field of biochemistry
- **Ph.D.** (2006) - University of Novi Sad, Faculty of Sciences, field of chemistry

Selected publications

1. **Popović, B. M.**, Uka, D., Alioui, O., Pavlović, R. Ž., & Benguerba, Y. (2022). Experimental and COSMO-RS theoretical exploration of rutin formulations in natural deep eutectic solvents: Solubility, stability, antioxidant activity, and bioaccessibility. *Journal of Molecular Liquids*, 359, 119266. [M21, **IF₂₀₂₁=6,633**]
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Selected projects

1. Science Fund project (program IDEAS): “Active Pharmaceutical Ingredient Deep Eutectic Solvents as Novel Therapeutic Agents and Food Supplements”, (APIDES), #GRANT No. 7731993, 2022-2024.
2. IPA project: “Joint development of higher education and training programmes in plant biology in support of knowledge-based society” (PLANTTRAIN), ID: HUSBR/1203/221/173; 2015-2016 (local coordinator)
3. IPA project: Oxidative stress tolerance in plants plants: from models to trees (OXIT), Contract Number: HUSRB/1002/214/036; 2012-2013 (participant)
4. Biosensing technologies and global system for continual investigation and integrated management of ecosystems, III 43002; 2011-2015 (participant).
5. Antioxidant activity of honey and honey supplied with dried fruit, 114-451-2093/2011-03; 2011-2014(participant).

Academic activities

Teaching at undergraduate, postgraduate and Ph.D. studies (field of chemistry and biochemistry)

- Basic Academic studies: **Chemistry, Medicinal chemistry, Functional food**;
- Master AS: Green chemistry in agriculture, Nutraceuticals and functional food, Antioxidant system and oxidative stress;
- Doctorial AS: Instrumental analysis, Bioactive food components, Green chemistry in food production

Training and experience:

- USA (Michigan State University, **Norman Borlaug Fellowship**, one and half month),
- Hungary (Department of plant biology, Seged, IPA project, 2013, one month),
- Portugal (IBET Institute, Lisbon, **Sigma Agile Fellowship** 3 months),
- Italy (Università degli Studi di Palermo, Palermo, **Visiting Professor**, 2 months, 2017).

Memberships

- Serbian Chemical Society
- Serbian Biochemical Society
- Serbian Plant Physiology Society
- Federation of European Societies of Plant Biology (FESPB)

Other activities

- Up to 2019: 130 scientific papers of which **52** are published in journals from SCI list;
- Total number of citations: **937**
- **h-index 19**
- Reviews in refereed journals
- Attendance in many national and international meetings
- Language skills: English