

## Izveštaj o radu Sekcija Srpskog hemijskog društva (SHD)

| Sekcija SHD „Molekularne nauke o hrani“            |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |                |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------|
|                                                    | Predsednik                                                                                                                                                                                                                                                                                                                                                                                                                                                | Sekretar            | Izborni period |
|                                                    | Jelena Mutić                                                                                                                                                                                                                                                                                                                                                                                                                                              | Mirjana Radomirović | 2024-2026      |
| Predstavnik Sekcije u Upravnom odboru SHD          | Dušanka Milojković<br>- Opsenica; Jelena Radosavljević                                                                                                                                                                                                                                                                                                                                                                                                    |                     |                |
| Broj članova Sekcije                               | Članovi na mejling listi: 116                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                |
| Konferencije/skupovi u organizaciji Sekcije        | Članovi Sekcije su aktivno učestvovali u većem broju nacionalnih i internacionalnih naučnih skupova kao što su:                                                                                                                                                                                                                                                                                                                                           |                     |                |
|                                                    | Savetovanje Srpskog hemijskog društva                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                |
|                                                    | Deseta konferencija mladih hemičara                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |                |
|                                                    | XIII Konferencija Biohemijskog društva Srbije                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                |
|                                                    | UNIFood2024 Conference, The 3rd International UNIFood Conference, Belgrade, June 28-29, 2024 - Prof. Dušanka Milojković-Opsenica i prof. Aleksandar Ž. Kostić su bili članovi Naučnog odbora                                                                                                                                                                                                                                                              |                     |                |
| Učešće članova Sekcije na konferencijama/skupovima | Savremene tehnologije i tendencije razvoja poljoprivrede, III naučni skup, Čačak, 25. april 2024 - Prof. Dušanka Milojković-Opsenica je bila član Naučnog odbora                                                                                                                                                                                                                                                                                          |                     |                |
|                                                    | 6th International Environmental Chemistry Congress (EnviroChem). November 5-8, 2024. Trabzon, Turska – Prof. Jelena Mutić je član Naučnog odbora                                                                                                                                                                                                                                                                                                          |                     |                |
|                                                    | Radomirović, M; Aćimović, J; Gligorijević, N; Gavrilov, N; Šeba, T; Pašti, I; Gabričević, M; Alcolea-Rodriguez, V; Portela, R; Stanić-Vučinić, D; Ćirković Veličković, T. Pasteurization of major whey protein $\beta$ -lactoglobulin increases its affinity to polyethylene terephthalate nanoplastics under simulated intestinal conditions. 9 <sup>th</sup> EuChemS Chemistry Congress, Dublin, Ireland, 7 <sup>th</sup> -11 <sup>th</sup> July, 2024. |                     |                |
|                                                    | Aćimović, J; Gligorijević, N; Radomirović, M; Vasović, T; Stojadinović, M; Stanić-Vučinić, D; Ćirković Veličković, T. Soft and                                                                                                                                                                                                                                                                                                                            |                     |                |

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hard corona of microplastics interacted with allergenic bovine milk  $\beta$ -lactoglobulin. 60<sup>th</sup> Meeting of the Serbian Chemical Society, Niš, Serbia, 8<sup>th</sup>-9<sup>th</sup> June, 2024. In: Book of Abstracts and Proceedings, 53-53.

Nikola M. Horvacki, Marko D. Jović, Dušanka M. Milojković-Opsenica, Milica M. Fotirić Akšić, Effect directed analysis of bioactive compounds in peels of 14 apple cultivars, The 3rd International UNIFood Conference, Belgrade, June 28-29, 2024. Book of Abstracts, p. 43. ISBN: 978-86-7834-438-1

Milica S. Jankov, Petar M. Ristivojević, Aleksandra D. Radoičić, Nikola M. Horvacki, Dušanka M. Milojković Opsenica, Assessment of the antioxidant and antidiabetic activity of the extracts of houseleek leaves and honey mixture based on the phytochemical profile, The 3rd International UNIFood Conference, Belgrade, June 28-29, 2024. Book of Abstracts, p. 72. ISBN: 978-86-7834-438-1

N. Momirović, M. Jakanovski, A. Dramićanin, N. Momirović, D. Milojković-Opsenica, Nov sortiment i rezultati selekcije u cilju dostizanja premijum kvaliteta i tržišnosti jagode, Savremene tehnologije i tendencije razvoja poljoprivrede, III naučni skup, Čačak, 25. april 2024, Zbornik apstrakata, str. 11; ISBN 978-86-81689-45-5

N. Horvacki, M. Jakanovski, D. Milojković-Opsenica, M. Fotirić Akšić, Mogućnost valorizacije pojedinih sorti autohtonih jabuka u Srbiji, Savremene tehnologije i tendencije razvoja poljoprivrede, III naučni skup, Čačak, 25. april 2024, Zbornik apstrakata, str. 15; ISBN 978-86-81689-45-5

Ćirić, I., Dabić Zagorac, D., Sredojević, M., Fotirić Akšić, M., Rabrenović, B., Blagojević, S., Natić, M. Valorization of raspberry seeds in cosmetic industry. XIII International Symposium on Agricultural Sciences AgroReS 2024, Trebinje (BIH), May 27–30, 2024, Book of abstract P51.

Natić, M., Fotirić Akšić, M., Pejić, L., Ćirić, I., Dabić Zagorac, D., Sredojević, M., Rabrenović, B. Bioactive compounds of cold-pressed raspberry seed oil and functional properties of the remaining oil cake. XIII International Symposium on Agricultural Sciences AgroReS 2024, Trebinje (BIH), May 27–30, 2024, Book of abstract P52.

Dabić Zagorac, D., Ćirić, I., Sredojević, M., Fotirić Akšić, M., Rabrenović, B., Pavlović, A., Natić, M. Utilization of agricultural waste in biosorption of anthocyanins. XIII International Symposium

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Aleksandar Ivanov, Maja Krstić Ristivojević, Luka Veličković, Nikolina Sibinčić, Marija Stojadinović, Nikola Gligorijević, Milan Nikolić, Simeon Minić. The potential of R-phycoerythrin as an albumin substitute for cell growth in meat cultivation. Serbian Biochemical Society Thirteenth Conference: Amplifying Biochemistry Concepts. Kragujevac, September 19–20, 2024. Proceedings, p. 63. ISBN 978-86-7220-141-3

David Fekete, Nikola Gligorijević, Sophie Combet, Jaroslav Katrlík, Milan Nikolić, Simeon Minić. High-affinity binding of Concanavalin A to B-Phycoerythrin. Serbian Biochemical Society Thirteenth Conference: Amplifying Biochemistry Concepts. Kragujevac, September 19–20, 2024. Proceedings, p. 72. ISBN 978-86-7220-141-3

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Jelena Radović, Simeon Minić, Milan Nikolić, Nikola Gligorijević. Investigation of the effect of algal chromopeptides on the activity of the SARS-CoV-2 main protease Mpro. Serbian Biochemical Society Thirteenth Conference: Amplifying Biochemistry Concepts. Kragujevac, September 19–20, 2024. Proceedings, p. 82. ISBN 978-86-7220-141-3

Marija Stojadinović, Nikolina Sibinčić, Katarina Ćulafić, Maja Krstić Ristivojević, Aleksandar Ivanov, Lora Tubić, Nikola Gligorijević, Carole Vialleix, Thibaut Michel, Milan Nikolić, Simeon Minić. Assessing the FBS-substituting potential of algal and cyanobacterial extracts for cell-based meat cultivation. Serbian Biochemical Society Thirteenth Conference: Amplifying Biochemistry Concepts. Kragujevac, September 19–20, 2024. Proceedings, p. 92. ISBN 978-86-7220-141-3

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Elena Vukašinović, Dina Tmušić, Nevena N. Momirović, Mihajlo V. Jakanovski, Mirjana D. Mosić, Dušanka M. Milojković-Opsenica, Assessment of physico-chemical parameters in strawberry genotypes: chemometric differentiation of parental and progeny lines, 10. Konferencija mladih hemičara, Beograd, Srbija.

Una Rankov, Ilija Sparavalo, Nađa Savić, Mirjana D. Mosić, Mihajlo V. Jakanovski, Dušanka M. Milojković-Opsenica, Influence of cultivation year on sugar profiles in strawberry genotypes, 10. Konferencija mladih hemičara, Beograd, Srbija.

Uroš I. Popov Tapavički, Mihajlo V. Jakanovski, Dušanka M. Milojković-Opsenica, Efficient detection of invertase adulteration in honey using ion chromatography, 10. Konferencija mladih hemičara, Beograd, Srbija.

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T. Mutić, V. Stanković, S. Đurđić, K. Kalcher, A. Ortner, D. Stanković. Efficient Hydrothermal Synthesis of Samarium Molybdate for Selective Electrochemical Detection of Metol in Water Samples. *29<sup>th</sup> Young Investigators' Seminar on Analytical Chemistry*. June 17-20., 2024, Split, Croatia. Book of abstracts, 8.

A. Mijajlović, V. Stanković, F. Vlahović, S. Đurđić, K. Kalcher, A. Ortner, D. Stanković. Pechini method synthesis of  $\text{Ho}_2\text{O}_3$  nanoparticles and its applications as a extremely sensitive electrochemical sensor for Diuron detection in tap water, apple and strawberry juice samples. *29<sup>th</sup> Young Investigators' Seminar on Analytical Chemistry*. June 17-20., 2024, Split, Croatia. Book of abstracts, 3.

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S. Đurđić, J. Mutić, M. Ilić, T. Mutić, D. Stanić-Vučinića, T. Ćirković Veličković. Microplastic extraction method from children's feces samples. *6th International Environmental Chemistry Congress (EnviroChem)*. November 5-8, 2024. Trabzon, Türkiye.

J. Mutić, I. Mikavica, M. Ilić, S. Djurdjic, Vesna Stanković. Effect of temperature on antimony leaching from PET and glass bottled water. *6th International Environmental Chemistry Congress (EnviroChem)*. November 5-8, 2024. Trabzon, Türkiye.

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A. Pešut, N. Barać, A.Ž. Kostić, I. Sredović-Ignjatović, M. Barać (2024): Functionality of enzymatically modified full toasted soy flour. *The 3<sup>rd</sup> International UNIFood Conference (UNIFood 2024)*, 28-29. June 2024, Belgrade, Serbia. pp. 156. ISBN: 978-86-7834-438-1.

J.M. Golijan Pantović, B.P. Dojčinović, D.D. Milinčić, A.Ž. Kostić, M.B. Pešić, D. Jovičić, S.S. Lekić (2024): Content of selected toxic elements in organic and conventional soybean seed. *The 3<sup>rd</sup> International UNIFood Conference (UNIFood 2024)*, 28-29. June 2024, Belgrade, Serbia. pp. 153. ISBN: 978-86-7834-438-1.

J.M. Golijan Pantović, R.B. Petronijević, D.D. Milinčić, A.Ž. Kostić, M.B. Pešić, S.S. Lekić (2024): Lipid profile of organic and conventional spelt grain. *The 3<sup>rd</sup> International UNIFood Conference (UNIFood 2024)*, 28-29. June 2024, Belgrade, Serbia. pp. 152. ISBN: 978-86-7834-438-1.

A. Pešut, N. Barać, A.Ž. Kostić, I. Sredović-Ignjatović, M. Barać (2024): Protein composition, techno-functional and antioxidant properties of different types of commercial soy flour. *The 3<sup>rd</sup> International UNIFood Conference (UNIFood 2024)*, 28-29. June 2024, Belgrade, Serbia. pp. 109. ISBN: 978-86-7834-438-1.

A.A. Plečić, A.G. Doroški, D.D. Milinčić, A.Ž. Kostić, S.P. Stanojević, S. Lević, I. Sredović-Ignjatović, J.D. Petrović, D.S. Stojković, J. Glamočlija, V.A. Nedović, M.B. Pešić (2024): Antioxidant properties of goat milk enriched with grape pomace seed extract and mushroom extract. *The 3<sup>rd</sup> International UNIFood Conference (UNIFood 2024)*, 28-29. June 2024, Belgrade, Serbia. pp. 90. ISBN: 978-86-7834-438-1.

S.P. Stanojević, B.P. Dojčinović, N. Smiljanić, M.B. Pešić, D.D. Milinčić, A.Ž. Kostić (2024): Is there a difference in the mineral composition of organic and conventional honey?. *The 3<sup>rd</sup> International UNIFood Conference (UNIFood 2024)*, 28-29. June 2024, Belgrade, Serbia. pp. 32. ISBN: 978-86-7834-438-1.

M.M. Pešić, M.B. Pešić, D.D. Milinčić, A.Ž. Kostić, S.P. Stanojević (2024): The application of okara in gluten-free bakery products. *The 3<sup>rd</sup> International UNIFood Conference (UNIFood 2024)*, 28-29. June 2024, Belgrade, Serbia. pp. 31. ISBN: 978-86-7834-438-1.

D.D. Milinčić, U. Gašić, B. Vidović, Lj. Prokić, A.Ž. Kostić, S.P. Stanojević, M.B. Pešić (2024): Phenylamides in food: uhplc/qtof/ms identification and structural elucidation. *The 3<sup>rd</sup> International*

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UNIFood Conference (UNIFood 2024), 28-29. June 2024, Belgrade, Serbia. pp. 23. ISBN: 978-86-7834-438-1.

S. Kilibarda, D.D. Milinčić, S. Vuković, Đ. Moravčević, M.B. Pešić, A.Ž. Kostić (2024): Phenolic and glucosinolate profiles of *Diplotaxis tenuifolia* (L.) DC hybrid Marte grown with/without biofortification treatments. *The 10<sup>th</sup> International Mediterranean Symposium on Medicinal and Aromatic Plants (MESMAP-10)*, Istanbul, 25-27 April 2024. Proceedings Book, pp. 41. ISBN: 978-625-98164-0-1.

M. Sudimac, Đ. Moravčević, A.Ž. Kostić, A. Vujošević, S. Vuković, S. Kilibarda, I. Tupajić (2024): The effect of starter fertilizer on production characteristics of broccoli. *1<sup>st</sup> International Congress on the Multidisciplinary Approaches in Agriculture Sciences (ASMAC 2024)*, 15-17 May 2024, Bayburt, Turkiye, pp. 28. ISBN: 978-605-9945-42-4.

S. Kilibarda, Đ. Moravčević, S. Vuković, A. Vujošević, A.Ž. Kostić (2024): The influence of harvest on the phytochemical composition of wild rocket hybrid Marte F1 leaves. *1<sup>st</sup> International Congress on the Multidisciplinary Approaches in Agriculture Sciences (ASMAC 2024)*, 15-17 May 2024, Bayburt, Turkiye, pp. 76. ISBN: 978-605-9945-42-4.

S. Gordanić, A.Ž. Kostić, Đ. Moravčević, T. Marković, S. Kilibarda, S. Vuković, J. Pantović (2024): Comparison of yield of domesticated and wild *Allium ursinum* individuals. *1<sup>st</sup> International Congress on the Multidisciplinary Approaches in Agriculture Sciences (ASMAC 2024)*, 15-17 May 2024, Bayburt, Turkiye, pp. 82. ISBN: 978-605-9945-42-4.

M.B. Pešić, I. Sredović-Ignjatović, A.Ž. Kostić, S.P. Stanojević, D.D. Milinčić (2024): Goat milk powder enriched with grape pomace seed extract: Mixture optimisation and UHPLC-Q-ToF-MS characterization. *28<sup>th</sup> International Symposium on Separation Sciences (ISSS-24)*, Messina, Italy, September 22-25 2024, OL-17.

M.M. Pešić, D.D. Milinčić, A.Ž. Kostić, M.B. Pešić, S.P. Stanojević (2024): UHPLC-QToF MS analysis of phenolic compounds in okara. *28<sup>th</sup> International Symposium on Separation Sciences (ISSS-24)*, Messina, Italy, September 22-25 2024, FL-21.

A.Ž. Kostić, D.D. Milinčić, J. Petrović, I. Sredović-Ignjatović, S.P. Stanojević, M.B. Pešić (2024): Protein profile and ATR-FTIR analysis of optimised mixture of goat milk powder and grape pomace seed extract. *28<sup>th</sup> International Symposium on Separation Sciences (ISSS-*

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24), Messina, Italy, September 22-25 2024, PS-43.

S.P. Stanojević, D.D. Milinčić, J. Petrović, I. Sredović-Ignjatović, A. Plečić, A.Ž. Kostić, A. Doroški, M.B. Pešić (2024): Electrophoretic analysis of goat milk powder enriched with grape pomace seed and mushroom extracts. *28<sup>th</sup> International Symposium on Separation Sciences (ISSS-24)*, Messina, Italy, September 22-25 2024, PS-101.

A.Ž. Kostić, D.D. Milinčić, B. Špirović Trifunović, N. Nedić, S.P. Stanojević, M.B. Pešić (2024): Fatty acids and peptides profile of bee-collected pollen predominantly originated from *Aster* sp. *Third International Congress on Bee Sciences (Abstract Book)*, Online, 24-26 April 2024, pp. 83. ISBN: 978-605-71368-8-6.

Sibinčić, N.; Minić, S.; Stojadinović, M. Exploring the potential use of edible insect hydrolysates in cellular agriculture. 48th FEBS Open Bio: Mining biochemistry for human health and well-being, 29 June - 3 July 2024, Milano, Italy, 2024, 14, 2, 144-144

Marija Stojadinovic, Nikolina Sibincic, Katarina Culafic, Aleksandar Ivanov, Lora Tubic, Nikola Gligorijevic, Carole Vialleix, Thibaut Michel and Simeon Minic. Systematic assessment of algal extracts as an alternative to fetal bovine serum in ZEM2S fish cell culture. FCT-2024: 10th International Conference on Food Chemistry & Technology. November 25-27, 2024. Valencia, Spain.

Nikolina Sibinčić, Nađa Grozdanić Stanisavljević, Nikola Gligorijević, Luka Veličković, Zorana Jovanović, Jelena Radović, Lora Tubić, Nevena Stankić, Višnja Jovanović, Aleksandar Ivanov, Tatjana Srdić Rajić, Milan Nikolić, Marija Stojadinović, Simeon Minić. *Arthrospira platensis* protein hydrolysates as a promising alternatives to serum in animal-cell culture. FCT-2024: 10th International Conference on Food Chemistry & Technology. November 25-27, 2024. Valencia, Spain.

Nikolina Sibincic, Sofija Pavlovic, Maja Krstic Ristivojevic, Marija Stojadinovic. Monitoring thermal stability of allergenic shrimp tropomyosin in comparison to non-allergenic protein homologues. FAAM-EUROBAT 2024: Food Allergy and Anaphylaxis Meeting & European Consortium on Application of Flow Cytometry in Allergy. November 21-23, 2024. Athens, Greece.

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**Predavanja članova Sekcije**

Dr Slađana Đurđić, predavanje po pozivu na UNIFood2024 Conference, The 3rd International UNIFood Conference, Belgrade,

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June 28-29, 2024. Naslov predavanja: *Electrochemical sensing of pesticides in food*.

Prof. Tanja Ćirković Veličković, predavanje po pozivu na V Kongresu Alergologa i kliničkih imunologa Srbije (UAKIS-a) sa međunarodnim učešćem. Naslov predavanja: *Mikro i nano plastika u hrani i životnoj sredini: efekti na zdravlje*. 31. oktobar 2024.

Prof. Tanja Ćirković Veličković, predavanje po pozivu na 48. FEBS kongresu u Milanu, Italija. Predavanje pod naslovom: *Microplastics and proteins interplay in food and environment*. Jun 2024

Prof. Tanja Ćirković Veličković, predavanje po pozivu pod naslovom Микро и нанопластика: шта знамо, а шта ургентно морамо да сазнамо? SANU ogranak u Novom Sadu, Novi Sad, jun 2024.

Prof. Tanja Ćirković Veličković, IMPTOX research on microplastics in water environment. EU Green Week partner event, IMPTOX Workshop: Navigating the Invisible Currents – Micro and Nanoplastics' Water Odyssey. Avgust 2024. online

Prof. Tanja Ćirković Veličković, Predavanje po pozivu na International Congress of Molecular Immunology Allergology IMAC) in Moscow November 28-29, 2024: Seafood allergens: an overview of global consumption, regulatory aspects, analytical and diagnostic challenges.

Prof. Tanja Ćirković Veličković, predavanje po pozivu na prvoj nacionalnoj radionici MicroDrink projekta, pod naslovom: Uzorkovanje i određivanje mikroplastike u životnoj sredini, zakonske odredbe u Srbiji i EU, Beograd, novembar 2024.

Prof. Aleksandar Ž. Kostić, Predavanje po pozivu na The 10<sup>th</sup> International Mediterranean Symposium on Medicinal and Aromatic Plants (MESMAP-10) održanom u Istanbulu (25-27 April 2024). Naziv predavanja: “*Brassica napus* monofloral bee-collected pollen fermented with kombucha-How mineral composition and phytochemicals/bioactivity are affected”.

Prof. Jelena Mutić, predavanje na 13th Danube Academies Conference (9-10 Oktobar, 2024) održanom u Beogradu. Naziv predavanja: Synergistic effects of microplastics and toxic metals in (sub)urban environmental pollution in Serbia

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#### Ostale aktivnosti

Dr Slađana Đurđić, Nagrada Zadužbine Veselin Lučić za najbolje naučno ostvarenje nastavnika i saradnika Univerziteta u Beogradu (u 2024. godini), naučni rad: <https://www.sciencedirect.com/science/article/pii/S0926337323004629>

Dr Slađana Đurđić, Nagrada Zadužbine Đoka Vlajković za najbolji naučni rad mladih naučnih radnika Univerziteta u Beogradu (u 2023. godini), naučni rad: <https://doi.org/10.1016/j.scitotenv.2023.168483>

Dr Slađana Đurđić, (*Teacher Mobility*) Stipendija za boravak na Institutu za hemiju – analitičku hemiju Univerziteta u Gracu - Karl *Franzens* (Austrija), April 2024., u organizaciji CEEPUS programa (M-CZ-0212-17-2324-M-176178).

Dr Slađana Đurđić, (*Teacher Mobility*) Stipendija za boravak na Univerzitetu u Pardubicama – Fakultetu za hemijsku tehnologiju (Češka), Mart 2024., u organizaciji CEEPUS programa (M-CZ-0212-17-2324-M-172166).

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<sup>#</sup> U slučaju dodatnih aktivnosti tokom novembra i decembra (između sastanka Upravnog odbora krajem tekuće godine i Godišnje skupštine SHD naredne godine) potrebno je dopuniti Godišnji izveštaj.

<sup>##</sup> U godini izbora u okviru Sekcije, samim tim i predstavnika Sekcije u Upravnom odboru SHD, uz Godišnji izveštaj obavezno je priložiti i zapisnik o održanim izborima u skladu sa Pravilnikom o radu sekcija SHD.