

# DISSEMINATION, COMMUNICATION AND EXPLOITATION - 2022-2025

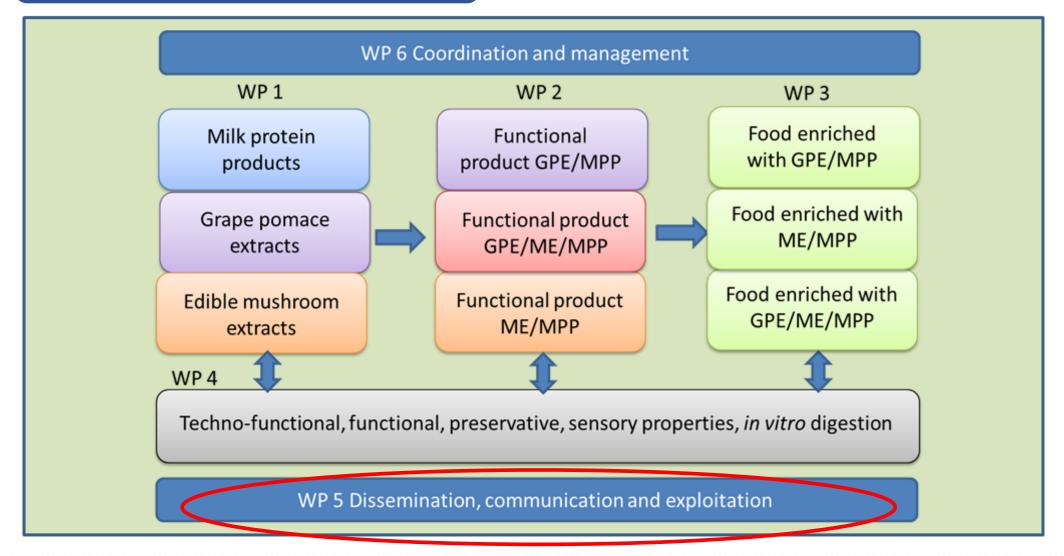






#### **ORGANISATION OF WORK 2022-2025**











# **PUBLICATIONS - results of the FUNPRO project**



**M21a** 

**Antioxidants** (11(11), 2164, 2022)

https://doi.org/10.3390/antiox11112164

 $IF_{2022} = 7.0$ 

Food Chemistry (402, 134299, 2023) https://doi.org/https://doi.org/10.1016/j.foodchem.2022.134299

4 papers Critical Reviews in Food Science and Nutrition (2023) https://doi.org/10.1080/10408398.2023.2195519

 $IF_{2022} = 10.2$ 

**Food Hydrocolloids** (146, Part B, 109293, 2024)

https://doi.org/10.1016/j.foodhyd.2023.109293

 $IF_{2023} = 11.0$ 





Bioaccessibility of Phenolic Compounds and Antioxidant Properties of Goat-Milk Powder Fortified with Grape-Pomace-Seed Extract after In Vitro **Gastrointestinal Digestion** 

Danijel D. Milinčić 10, Nemanja S. Stanisavljević 2, Aleksandar Ž. Kostić 10, Uroš M. Gašić 30, Slađana P. Stanojević 10, Živoslav Li. Tešić 4 and Mirjana B. Pešić 1,\* 5
Food Chemistry 402 (2023) 134299







Contents lists available at ScienceDirect

Food Chemistry

journal homepage: www.elsevier.com/locate/foodchen

Goat milk proteins enriched with Agaricus blazei Murrill ss. Heinem extracts: Electrophoretic, FTIR, DLS and microstructure characterization

Dušanka A. Popović Minić a,1, Danijel D. Milinčić a,1, Stefan Kolašinac b, Vladislav Rac a, Jovana Petrović<sup>c</sup>, Marina Soković<sup>c</sup>, Nebojša Banjac<sup>a</sup>, Jelena Lađarević<sup>d</sup>, Bojana B. Vidović<sup>e</sup>, Aleksandar Ž. Kostić a, Vladimir B. Pavlović f,g, Mirjana B. Pešić a,\*,1



Critical Reviews in Food Science and Nutrition

SSN: (Print) (Online) Journal homepage: https://www.tandfonline.com/loi/bfsn20

Food nanoemulsions: how simulated gastrointestinal digestion models, nanoemulsion, and food matrix properties affect bioaccessibility of encapsulated bioactive compounds

Danijel D. Milinčić, Ana S. Salević-Jelić, Aleksandar Ž. Kostić, Slađana P Stanojević, Viktor Nedović & Mirjana B. Pešić



Food Hydrocolloids 146 (2024) 109293

Contents lists available at ScienceDirec



journal homepage: www.elsevier.com/locate/foodhyc



Goat milk powders enriched with grape pomace seed extract: Physical and techno-functional properties

Danijel D. Milinčić a, Aleksandar Ž. Kostić a, Stefan Kolašinac b, Vladislav Rac a, Nebojša Banjac a, Jelena Lađarević<sup>e</sup>, Steva Lević<sup>a</sup>, Vladimir B. Pavlović<sup>d,e</sup>, Slađana P. Stanojević<sup>a</sup>, Viktor A. Nedović a. Mirjana B. Pešić a









# **PUBLICATIONS - results of the FUNPRO project**



**M21** 

**Pharmaceuticals** (17(9), 1153, 2024) <a href="https://www.mdpi.com/1424-8247/17/9/1153">https://www.mdpi.com/1424-8247/17/9/1153</a>

 $IF_{2023} = 4.3$ 





Comparative Chemical Analysis and Bioactive Properties of Aqueous and Glucan-Rich Extracts of Three Widely Appreciated Mushrooms: Agaricus bisporus (J.E.Lange) Imbach, Laetiporus sulphureus (Bull.) Murill and Agrocybe aegerita (V. Brig.) Vizzini

Jovana Petrović <sup>1</sup>, Jasmina Glamočlija <sup>1</sup>, Danijel D. Milinčić <sup>2</sup>, Ana Doroški <sup>2</sup>, Steva Lević <sup>2</sup>, Slađana P. Stanojević <sup>2</sup>, Aleksandar Ž. Kostić <sup>2</sup>, Dušanka A. Popović Minić <sup>2</sup>, Bojana B. Vidović <sup>3</sup>, Ana Plećić<sup>2</sup>, Viktor A. Nedović<sup>2</sup>, Mirjana B. Pešić<sup>2</sup>,\* and Dejan Stojković<sup>1</sup>,\* and Dejan Stojković<sup>1</sup>,\*







# Awards in 2023 for the best works published in 2022 - results of the FUNPRO project









**Pešić Mirjana** - the best work by an author in the field of Food Science published in 2022.

**Danijel Milnčić** - the best work <u>of a young</u> <u>author</u> in the field of Food Science, published in 2022.







# Awards in 2024 for the best works published in 2023 - results of the FUNPRO project









**Pešić Mirjana** - the best work by an author in the field of Food Science published in 2023.

**Danijel Milnčić -** the best work <u>of a young</u> <u>author</u> in the field of Food Science, published in 2023.









# **PUBLICATIONS - PhD thesis - results of the FUNPRO project**



Faculty of Agriculture, University of Belgrade



Danijel D. Milinčić

PhD thesis

Byproducts of the wine industry as a source of bioactive compounds: characterization and possibility of application in the food industry



10. June, 2023.





Rectorate of the Belgrade University

3. December, 2024.

June 10, 2023









# **PUBLICATIONS - PhD thesis - results of the FUNPRO project**





Faculty of Agriculture, University of Belgrade









PhD thesis

Functional additives based on goat's milk proteins and mushroom extracts from genera *Laetiporus* i *Agaricus* 

Planned defense in February 2025.

Faculty of Agriculture, University of Belgrade



**Ana Plećić** PhD thesis





Microencapsulation of bioactive compounds from Prokupac grape seeds and the mushroom Agrocybe aegerita (V. Brig.)
Singer and their application in the production of dehydrated food products

Reported topic 1/17/2023.

Defense is expected in 2025.







# PUBLICATIONS - results of collaboration and use of capital equipment purchased with **FUNPRO** project funds

of the Republic of Serbia



Antioxidants (12(7), 1424, 2023) https://www.mdpi.com/2076-3921/12/7/1424  $IF_{2023} = 6.0$ Antioxidants 13(11), 1374, 2024) https://www.mdpi.com/2076-3921/13/11/1374 **M21a**  $IF_{2023} = 6.0$ Food Chemistry (456, 140044, 2024) https://doi.org/https://doi.org/10.1016/j.foodchem.2022.134299 IF 2023 = 8.5 Food Chemistry (464(2025), 141777, 2025) https://doi.org/10.1016/j.foodchem.2024.141777 papers  $IF_{2023} = 8.5$ Food Chemistry (467, 142336, 2025) https://doi.org/https://doi.org/10.1016/j.foodchem.2024.142336 Diversity and Chemical Characterization of Apple (Malus sp.) Pollen High Antioxidant and Nutritional Values for Both Monogloral Com Poppy Beec Collected Pollen. A Insight into its Phytodienical Composition Science Fun Program IDEAS

# PUBLICATIONS - results of collaboration and use of capital equipment purchased with FUNPRO project funds





# PUBLICATIONS - PhD thesis - results of collaboration and use of capital equipment purchased with FUNPRO project funds



University of Bordeaux University of Belgrade





Katarina Delić

PhD thesis

Study of the mechanism of interaction between red varietal wines anthocyanins and proteins rich in proline and sensory consequences

In the procedure, the defense is expected in 2025 in France

**M70** 



Agreement on Dual Doctoral Studies signed by the University of Belgrade and the University of Bordeaux.



université BORDEAUX

Dr. Pierre-Louis Teissedre, Full Professor at the Institute of Vine and Wine, University of Bordeaux, is appointed as Mentor 1,







Dr. Mirjana Pešić, Full Professor at the Faculty of Agriculture, University of Belgrade, is appointed as Mentor 2







Cotutelle agreement (<a href="https://mobion.bg.ac.rs/cotutelle">https://mobion.bg.ac.rs/cotutelle</a> )

















# PUBLICATIONS - PhD thesis - results of collaboration and use of capital equipment purchased with FUNPRO project funds



Faculty of Agriculture, University of Belgrade





Jovana Marković



PhD thesis

Effect of encapsulated juice and lyophilized horseradish roots and leaves (Armoracia rusticana L.) on the oxidative stability and quality of mayonnaise during storage

Faculty of Agriculture, University of Belgrade

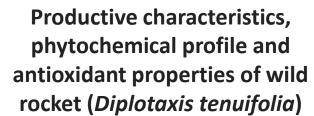




Sofija Kilibarda



PhD thesis



Planned defense in 2025.











# PUBLICATIONS - PhD thesis - results of collaboration and use of capital equipment purchased with FUNPRO project funds



Faculty of Agriculture, University of Belgrade



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PhD thesis

Obtaining and encapsulation of juice from micro-herbs of selected plant species

Planned defense in 2025.

Faculty of Chemistry, University of Belgrade





Marko D. Jović



PhD thesis

Development of a methodology based on direct bioautography for the analysis of biologically active components from natural products

Planned defense in 2025.









# PUBLICATIONS - PhD thesis - results of collaboration and use of capital equipment purchased with FUNPRO project funds



Faculty of Chemistry, University of Belgrade





Nikola Horvacki



PhD thesis

Phytochemical characterization of autochthonous apple varieties from Serbia

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Planned defense in 2025.

Faculty of Agriculture, University of Belgrade

**M70** 



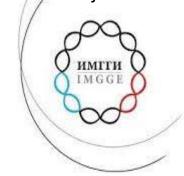
Jelena Miladinović

PhD thesis

The effect of the drying regime and extraction agent on the antioxidant potential of horseradish root extract (Armoracia rusticana L)

In the development phase

In collaboration with IMGGI under experimental guidance Dr. Nemanja Stanisavljević



INSTITUT
ZA MOLEKULARNU GENETIK
I GENETICKO INŽENJERSTVO
Univerzitet u Beogradu







# **Summarizing published presentations**



**PUBLICATIONS - results of the FUNPRO project** 

PUBLICATIONS - results of collaboration and use of capital equipment purchased with FUNPRO project funds

M21a - 4 publications

**M21** - 1 publication

 $\Sigma$  = 5 publications

M21a - 5 publications

M21 - 6 publications

 $\Sigma$  = 11 publications



 $\Sigma$  = 16 publications of categories M1a and M21

### **PhD thesis**

**Abstracts - oral and poster presentations** 

3 + 7 = 10 PhD thesis

M32 - 1 publication

M34 - 30 publications

M62 - 7 publications

 $\Sigma$  = 38 publications











# **Abstracts – results of the FUNPRO project**



M32 1 publication

M34 ) 19 publications

M62 3 publications

Abstract – results of collaboration and use of capital equipment purchased with FUNPRO project funds

M34 11 publications

M64 4 publications



All abstracts-publications have been presented at meetings, congresses, conferences and seminars.













# 11th Central European Congress on Food and Nutrition - CEFOOD2022

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Čatež ob Savi, Slovenia, 27-30. September, 2022.



Mirjana Pešić, Steva Lević and Danijel Milinčić presented the results of the FUNPRO project through two oral presentations and one poster presentation.





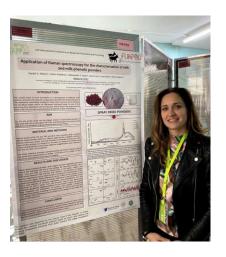
2nd International Conference on Advanced Production and Processing – ICAPP2022

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Novi Sad, Serbia 20-22. October, 2022.



The results of the FUNPRO project were presented as a poster presentation.



https://peter-raspor.eu/CEFood-congress/

https://www.tf.uns.ac.rs/en/general-information-2022.html











# National Seminar of I category – Sustainable Nutrition in Sustainable Development

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Belgrade, Serbia, 4. November, 2022.

Mirjana Pešić and Slađana Stanojević participated in the seminar as invited lecturers and promoted the FUNPRO project.





https://drustvozaishranu.rs/dogadjaji/seminar-odrziva-ishrana-u-odrzivom-razvoju/

# **32**<sup>nd</sup> International Scientific-Expert Conference of Agriculture and Food Industry

Sarajevo, Bosnia and Herzegovina, 1-2 December 2022.

FUNPRO team members Aleksandar Kostić and Danijel Milinčić presented the results and promoted the FUNPRO project through a poster presentation.



The poster was selected as the best work at the poster sessions and was awarded first place at the Conference.



DelPATEMANIQUES, Sourth Copyet Conference of Agriculture and Freed House?

Anthocyanin profiles of pommace skins of international and indigenous grape varietety determined by UHPLC-MS/MS OrbiTrap

Cardiel D. Hilland\*\*, Alexander and Sourth County of Sourth P. Souripet\*, Descripet Line 14, 1600 pp. 3 Pelle\*

Cardiel D. Milland\*\*, Alexander Souripet\*, Unrel Cardiel, Souripet\*, Descripet\*, Descripet Line 14, 1600 pp. 3 Pelle\*

The standard of Souriet, Unrel Cardiel, Souripet\*, Descripet\*, Descripet Line 14, 1600 pp. 3 Pelle\*

The standard of Souriet, Line 14, 1600 pp. 3 Pelle\*

THE SOURIET LINE 15, 160











# XXII European Food Chemistry Congress – EuroFoodChem 2023

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Belgrade, Serbia 14-16. June, 2023



Kostić, presented the results and promoted the FUNPRO project through a poster presentation



4th Balkan Eco Fair, 4th International fair of Medicinal, Spice, Ornamental plants, Bee Productsand and Mushrooms

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Vranje, Serbia, 3-4. June, 2023.

Dejan Stojković presented the results of the FUNPRO project with an oral presentation





Dejan Stojković received a certificate of appreciation for his outstanding contribution to the realization of the 4th Balkan Eco Fair

https://vranje.org.rs/vtext/4-medjunarodni-sajam-lekovitog-zacinskog-ukrasnog-bilja-pcelinjih-proizvoda-i-gljiva

https://xxiieurofoodchem.com/book-of-abstract/











XV International Symposium "Novel Technologies and Sustainable Development"

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Leskovac, Serbia, 20-21. 2023. October



The results of the FUNPRO project were presented by Mirjana Pešić, Slađana Stanojević and Aleksandar Ž. Kostić through the poster presentation



6th Scientific-professional symposium with international participation - "Beer, Brewing raw materials and equipment"

Zrenjanin, Serbia, 25–27. October, 2023.

Mirjana Pešić, Danijel Milinčić and Jovana Petrović presented the results of a bilateral project with China on the production of beer with improved functionality.

UHPLC-QToF-MS equipment was used, which was acquired within the FUNPRO project





<u>https://www.simpozijumopivu-zrenjanin.org/home/</u>

https://www.tf.ni.ac.rs/symposium/









# 14th European Nutrition Conference FENS 2023

(Federation of European Nutrition Societies)

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Belgrade, Serbia, 14–17. November, 2023.



Mirjana Pešić, Danijel Milinčić, Slađana Stanojević and Aleksandar Kostić presented the results of FUNPRO projects in one oral and two poster presentations





https://www.mdpi.com/2504-3900/91/1

# 3rd Bleak Sea Association of Food Science and Technologists Congress, BFoST2023

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Belgrade, Serbia, 3-14 December, 2023.

Mirjana Pešić, Slađana Stanojević, Aleksandar Kostić, Danijel Milinčić, Jovana Petrović, Dejan Stojković and Jasmina Glamočlija participated with three presentations: one plenary, one oral presentation and one poster presentation





















# **60th Conference of the Serbian Chemical Society**

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*Niš, Serbia,* 8-9.June 2024.

Danijel Milinčić gave a lecture as a recipient of the medal of the Serbian Chemical Society for commitment and success in science.



The results of the FUNPRO project were presented at a poster session.

https://www.shd.org.rs/wpcontent/uploads/2024/06/Book-ofabstracts-SHD-2024.pdf?script=lat

#### 3rd UNIFood International Conference – UNIFood2024

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Belgrade, Serbia, 28-29. June, 2024.

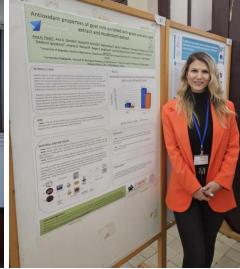


Ivana Sredović Ignjatović, Danijel Milinčić, Ana Doroški and Ana Plećić presented the results of the project with one invited lecture and one sectional lecture, as well as with two poster presentations





















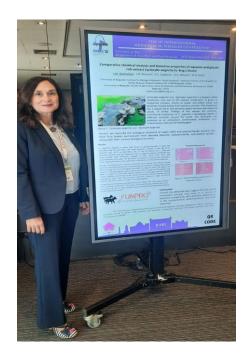
12th International Medicinal Mushrooms Conference - IMMC2024

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Bari, Italy, 24th-27th September, 2024.

Jasmina Glamočlija predstavila je rezultate projekta u posterskoj prezentaciji.

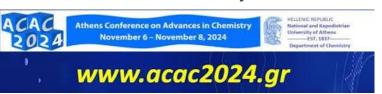
https://www.dl.begell house.com/journals/ 708ae68d64b17c52,7 a3cf59c1ad4775a,5d5 22a053722d42d.html



4th Athens Conference on Advances in Chemistry – ACAC 2024

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Athens, Greece, 5-8, November, 2024.



Mirjana Pešic i Dejan Stojković su usmenim prezentacijama predstavili rezultate FUNPRO projekta





https://www.acac2024.gr/abstract-guidelines









# 26th Symposium on Separation Sciences, ISSS2022

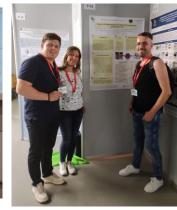
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Ljubljana, Slovenia 28th June - 1st July, 2022.



Mirjana Pešić and Danijel Milinčić presented the results of the FUNPRO project as oral and poster presentations





https://www.euchems.eu/events/26th-international-symposium-on-separation-sciences-isss-2022/

27th Symposium on Separation Sciences, ISSIS2023 27th ISSS

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Cluj-Napoca, Romania, 24-27. September, 2023.

The results of the FUNPRO project were presented and promoted through a poster presentation



Cluj-Napoca

https://isss2023.conference.ubbcluj.ro/

28th Symposium on Separation Sciences, ISSIS2024

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Messina, Sicily, Italy, 22-25. September, 2024.

(ISSS2024
28th International Symposium on Separation Sciences

Three oral and two poster presentations were presented by Mirjana Pešić, Danijel Milinčić, Slađana Stanojević and Aleksandar Kostić







https://www.sepscisoc.com/isss2024









# Capital and other equipment purchased with funds from the FUNPRO project







Spektrofotometar; Microplate Reader PlexA.200; FAITHFUL Instrument (Hebei Province, China)



Centrifuga DLAB, DMO412, Rotir A60-50 (Amtast, USA)

Agilent 1290 Infinity ultra-high-performance liquid chromatography (UHPLC) system coupled to a quadrupole time-of-flight mass spectrometer (6530C Q-ToF-MS) (Agilent Technologies, Inc., CA, USA)







PH metar; Consort C1010 (Angers, France)













# During the project duration - equipment, chemicals, supplies and laboratory utensils were procured



Thanks to the foreseen budget lines of the FUNPRO project for laboratory equipment and chemicals, procurement was carried out during the duration of the project.



chemicals



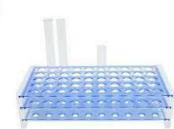
automatic pipettes



glass ware









plastic laboratory utensils











# **14th European Night** of Researchers

NOC ISTRAŽIVAČA Pažnja! Nauka na putu

Organized by the Center for the Promotion of Science and the Institute for Biological Research "Siniša Stanković

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Beograd, Pančevo i Inđija, Srbija, 30.09.2022.

The goals of this project are presented in a scientific and popular way.











https://pekariposlasticar.rs/funpro-projekat/











# Interview of Prof. Dr. Mirjana Pešić for the daily "Novosti"

- ciljevima projekta FUNPRO,
- ❖ zašto su za formulaciju funkcionalnih aditiva odabrani →
- ❖ ko je u projektnom timu



Professors of the Faculty of Agriculture reveal that they are on the trail of a formula for healthier food

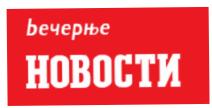




- goat's milk

- grape pomace

-- edible mushrooms



09.05.2022.



https://www.novosti.rs/drustvo/vesti/1114567/stres-brisu-aditivima-kozjeg-mleka-profesori-poljoprivrednog-fakulteta-otkrivaju-tragu-formule-zdraviju-hranu











Entrepreneurship

Belgrade

The event on the occasion of the opening of the IDEA 2024 program and the DIASPORA program - grants for visits by diaspora researchers to scientists in Serbia

Belgrade, October 8, 2024.

### **Participants**

- acting director of the Science Fund of the Republic of Serbia Prof. Dr. Nenad Filipovic
- Director of the World Bank for Serbia Nikola Pontara
- EU Ambassador and Head of the EU Delegation in Serbia H.E. Emmanuel Giaufret
- Minister of Science, Technological Development and Innovation Dr. Jelena Begović
- ☐ four elected IDEAS project managers (one from each subprogram) who lead the implementation of current projects

Prof. Dr. Mirjana Pešić presented the results of the FUNPRO project within the *Engineering and Technological Sciences* sub-program.





https://fondzanauku.gov.rs/2024/10/fond-za-nauku-otvara-2-novaprograma-za-naucnike-sa-ukupnim-budzetom-od-248-miliona-evra/











# Naučni kompas 2

(Scientific Compass 2)

Mirjana Pešić gave an overview of the goals and focus areas of the project, while researchers Aleksandar Kostić and Slađana Stanojević demonstrated the experimental realization of the project's tasks.

The entire episode titled "Prirodni aditivi" ("Natural additives,,) it is available on the YouTube channel: https://vvv.ioutube.com/vatch?v=vPOdi4AMAHv

















# MultiCultiMed Project

- strategic project of Serbia and China
- ☐ Study on the effectiveness of medicinal plant components using modern technologies



# **MULTICULTI** kick-off meeting

Divčibare, Serbia, 24-25. December, 2024.

The FUNPRO team shared its experience in the analysis of bioactive compounds with the MULTICULTI team, presenting the results and methodology

https://www.ibiss.bg.ac.rs/sr-yu/istrazivanja/projekti/medjunarodni/4994-multiculti-china-2024





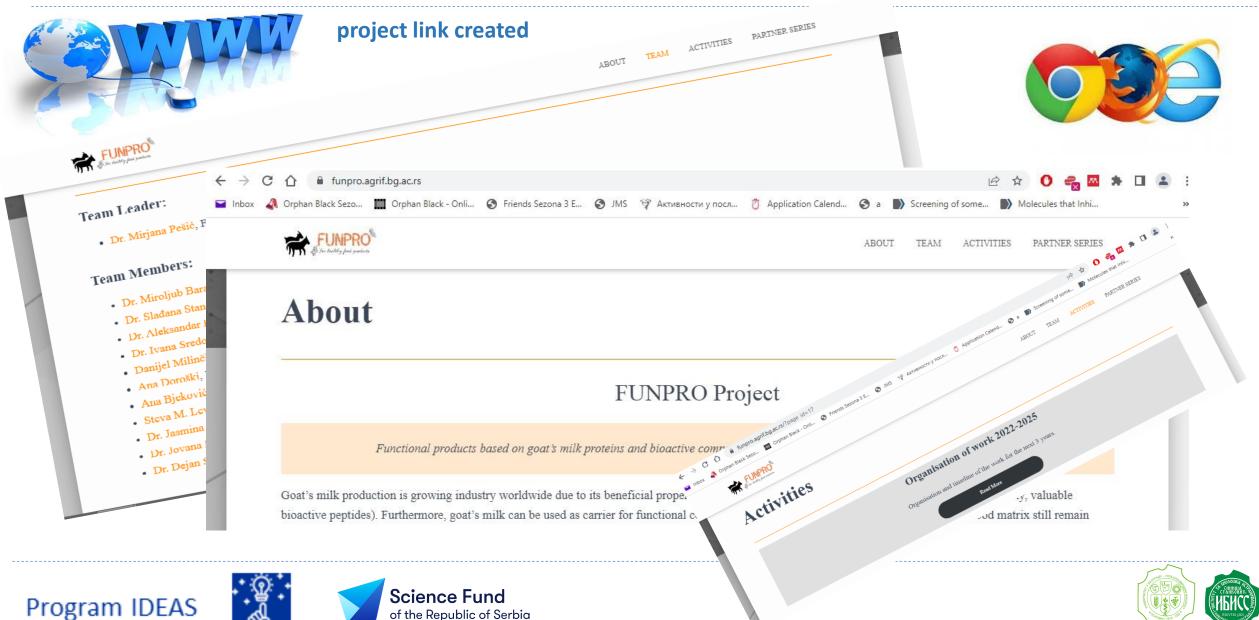














































FUNPRO
For healthy food products

the project logo was designed

















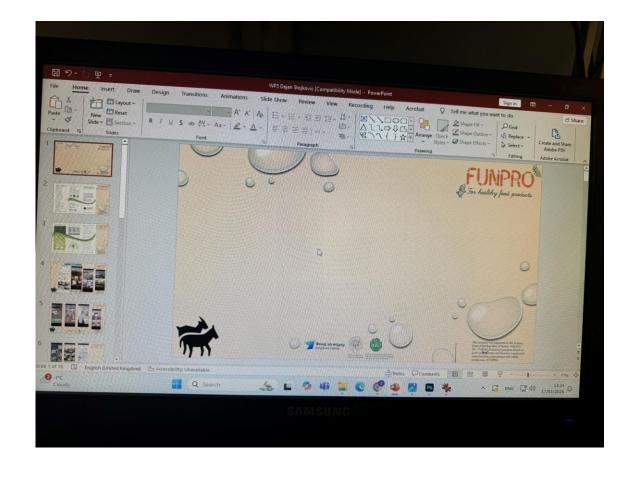






Creative Powerpoint Template

A PowerPoint template was created for the purpose of uniform project presentations.











# **PRINTED MATERIAL**



ned OILSI GALA

#### PRINCIPAL INVESTIGATOR:

Prof. dr Mirjana Pešić mpesic@agrif.bg.ac.rs

PARTICIPANTS:

Faculty of Agriculture

University of Belgrade:

Prof. dr Miroljub Barać

Prof. dr Slađana Stanojević

Prof. dr Aleksandar Kostić

Prof. dr Ivana Sredović Ignjatović

MSc Danijel Mlinčić

MSc Dušanka Popović Minić

MSc Ana Doroški

MSc Ana Bjeković

Institute for Biological Research

"Siniša Stanković"

National Institute of Republic of

Serbia University of Belgrade:

dr Jasmina Glamočlija - jasna@ibiss.bg.ac.rs

dr Jovana Petrović

MSc Dejan Stojković

Project Participants:

- · Faculty of Agriculture, University of Belgrade
- IBISS, National Institute of Republic of Serbia, University of Belgrade
- EKOFUNGI SME involved in Project







Functional products based on goat's milk

proteins and bioactive

compounds extracted

**FUNPRO** 

from

grape pomace and edible mushrooms

#### **Project Funding:**

Science Fund of the Republic of

Grant No. 774471







#### FUNPRO INFORMATION:



#### IMPLEMENTATION PLAN:



#### SUMMARY

Healthier and sustainable foods are great challenges facing food industry nowadays.

4 14th EUROPEAN

NUTRITION CONF

Food scientists and technologists have been

encouraged to develop new functional food ingredients and to lower the environmental impact

during food production. FUNPRO has launched in January 2022

aiming to develop new multipurpose high value functional protein products (FMPP).

#### FUNPRO IMPACT:



consumers' needs. Further, they will be used for enrichment of different already present food products to improve their quality and functionality

# These products will be developed using goat's milk, wine waste (from autochtonous and international grape varieties) and/or edible











### PRINTED MATERIAL





#### Innovating Functional Foods

#### **Project Overview**

The FUNPRO project developed functional milk protein products (FMPP) by enriching goat's milk proteins with bioactive compounds from grape pomace and edible mushrooms. This innovative approach enhances food properties, nutrition, and sustainability.





#### . Grape Pomace Extracts (GPE)

- · Rich in Phenolics: Prokupac grape seed extract - the highest phenolic content (6467.9 mg GAE/100g DM).
- · Antioxidant Power: Significant ABTS and DPPH activity, with catechin bioaccessibility reaching 18.16%.
- Best Practices: Methanol/water extraction and lyophilization preserved maximum phenolics.



#### 2. Mushroom Extracts (ME)

- Potent Bioactivity: A. aegerita aqueous extract - superior β-glucan (34.95%) and phenolic content (23.72 g GAE/100g DW).
- Wound Healing: A. aegerita 100% closure in 24 hours.
- · Antimicrobial Strength: Effective against Bacillus cereus - notable antifungal and antibiofilm properties.



### 3. Goat Milk Protein Products

- Thermal Advantage: Heat-treated goat milk (TRM) formed stable casein-whey complexes for bioactive integration.
- Improved Functionality: Enhanced emulsifying, foaming, and binding properties for versatile applications.



#### 4. Functional Milk Protein Products (FMPP)

- Health Benefits: Combined GPE/ME mixtures - strong anti-inflammatory and antioxidant effects.
- Cancer Prevention: M/ME formulations inhibited breast and colorectal cancer cell proliferation.
- · Bioactive Delivery: Digestive bioavailability of phenolics and glucans ensured long-lasting functional activity.



#### Structural Innovations

- · Spectroscopy: FTIR confirmed homogeneous bioactive integration.
- · SEM Analysis: Revealed honeycomb structures in enriched products, optimizing functional performance.
- · DLS measurement: Good stability of particles, unimodal distribution

#### Functional dehydrated soups - with addition of M/GPE, M/ME and M/GPE/ME

- · Health benefits: Good antioxidant properties
- · Preservative properties: Good antibacterial, antifungal and anticandidal activity
- · Sensory analysis: High sensory scores very good quality









M/GPE+ME

Grape seed extract









FUNPRO combined dairy proteins with plant- and mushroom-based bioactives to create innovative, health-enhancing, and sustainable food solutions.





SEM of additive















This researchwas supported by the ScienceFund of the Republic of Serbia, #GRANT No. 7744714, Functional products based on goat's milk proteins and bioactive compounds extractedfrom grape











# **ADVERTISING MATERIAL**













### **PROMOTIONS AND AWARDS**





recognition to Danijel Milinčić for his contribution to the development of methods for the analysis of secondary metabolites in food















### PROMOTIONS AND AWARDS





# **POSEBNO PRIZNANJE** SAJMA TEHNIKE





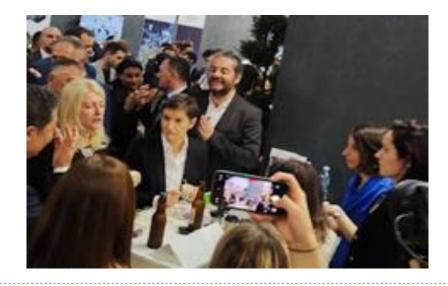




88. MEÐUNARODNI SAJAM TEHNIKE



"Tehnologija prozivodnje funkcionalnog piva obogaćenog fenolnim jedinjenjima iz semenki grožđa" (2024)















# **Constructive meetings and workshops**











## participation in congresses



# 23rd International Congress of Nutrition of IUNS

# IUNS-ICM 2025

International Congress of **Nutrition** 24-29 August 2025 | Paris, France

SUSTAINABLE FOOD FOR GLOBAL HEALTH

1 peer-reviewed publication in the journal Foods



preparation of materials for participation in a new project of IDEAS program

1 publication in preparation











January, 2022. – January, 2025.





