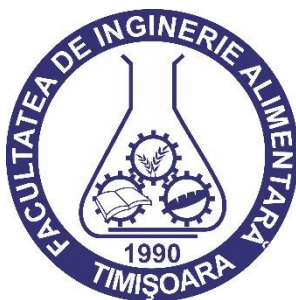




**Banat's University of Agricultural Sciences and Veterinary
Medicine "King Michael I of Romania" from Timișoara**



Scientific Programme
***Multidisciplinary Conference on Sustainable
Development, 20-21 May 2021***
Section: Food Chemistry, Engineering & Technology



Faculty of Food Engineering
Timișoara, 2021



Academy of Agricultural and
Forestry Sciences
"Gheorghe Ionescu-Șișești"
Timișoara Branch



Romanian Association of Food
Industry Specialists
Timișoara Branch



Romanian Chemistry Society
Timișoara Branch

Multidisciplinary Conference on Sustainable Development
Section: Food Chemistry, Engineering & Technology

USAMVBT is inviting you to a scheduled Zoom meeting.

Topic: INTERNATIONAL MULTIDISCIPLINARY CONFERENCE ON SUSTAINABLE DEVELOPMENT

Time: May 20, 2021 10:00 AM Bucharest (Opening of the Conference: 10⁰⁰-12⁰⁰)

Join Zoom Meeting

<https://us02web.zoom.us/j/88660168234>

Meeting ID: 886 6016 8234

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Dial by your location

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Meeting ID: 886 6016 8234

Find your local number: <https://us02web.zoom.us/j/88660168234>

USAMVBT is inviting you to a scheduled Zoom meeting.

Topic: FOOD CHEMISTRY, ENGINEERING & TECHNOLOGY (orele: 16⁰⁰ - 18⁰⁰)

Time: May 20, 2021 04:00 PM Bucharest

Join Zoom Meeting

<https://us02web.zoom.us/j/86120055657>

Meeting ID: 861 2005 5657

One tap mobile

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+1 312 626 6799 US (Chicago)

Meeting ID: 861 2005 5657

Find your local number: <https://us02web.zoom.us/j/86120055657>

Conferences Programme

1st Day – 20 May 2021 (Thursday)

Registration on-line

10 ⁰⁰ – 10 ¹⁵	Opening of the Conference
10 ¹⁵ – 10 ³⁰	Plenary Lecture PL ₁
10 ³⁰ – 10 ⁴⁵	Plenary Lecture PL ₂
10 ⁴⁵ – 11 ⁰⁰	Plenary Lecture PL ₃

*”Iulian Drăcea” Auditorium
Banat’s University of Agricultural Sciences and Veterinary Medicine
“King Michael I of Romania” from Timișoara*

Section: Agriculture - Trends in European Agriculture Development – on-line

12 ⁰⁰ – 12 ¹⁰	Opening of the Conference section
12 ¹⁰ – 13 ¹⁵	Oral communications
13 ¹⁵ – 13 ³⁰	Concluding Remarks

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Banat’s University of Agricultural Sciences and Veterinary Medicine
“King Michael I of Romania” from Timișoara*

Section: Agricultural management - Management of Sustainable Rural Development – on-line

14 ⁰⁰ – 14 ¹⁰	Opening of the Conference section
14 ¹⁰ – 15 ¹⁵	Oral communications
15 ¹⁵ – 15 ³⁰	Concluding Remarks

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“King Michael I of Romania” from Timișoara*

Section: Food Engineering - Food Chemistry, Engineering & Technology – on-line

16 ⁰⁰ – 16 ¹⁰	Opening of the Conference section
16 ¹⁰ – 18 ⁰⁰	Oral communications
18 ⁰⁰ – 18 ¹⁵	Concluding Remarks

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Multidisciplinary Conference on Sustainable Development
Section: Food Chemistry, Engineering & Technology

21 May 2021 (Friday)

Section: Animal Husbandry and Biotechnology - Animal Resource Bioengineering – on-line

09⁰⁰ – 09¹⁰ Opening of the Conference section
09¹⁰ – 10¹⁵ Oral communications
10¹⁵ – 10³⁰ Concluding Remarks

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Section: Horticulture and Forestry - Horticulture, Forestry and Biotechnology – on-line

11⁰⁰ – 11¹⁰ Opening of the Conference section
11¹⁰ – 12¹⁵ Oral communications
12¹⁵ – 12³⁰ Concluding Remarks

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Section: Veterinary Medicine - Animal Breeding and Pathology Today – on-line

13⁰⁰ – 13¹⁰ Opening of the Conference section
13¹⁰ – 14¹⁵ Oral communications
14¹⁵ – 14³⁰ Concluding Remarks

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Scientific Programme

1st Day – 20th of May, 2021 (Thursday)

*”Iulian Drăcea” Auditorium
Banat’s University of Agricultural Sciences and Veterinary Medicine
“King Michael I of Romania” from Timișoara*

Registration (ON-LINE)

- 10⁰⁰ – 10¹⁰ Welcome speech
Cosmin Alin Popescu, *Rector of the Banat’s University of Agricultural Sciences and Veterinary Medicine “King Michael I of Romania” from Timișoara,*
- 10¹⁰ – 10¹⁵ Conference opening
Isidora Radulov, *Vicerector of the Banat’s University of Agricultural Sciences and Veterinary Medicine “King Michael I of Romania” from Timișoara,*
- 10¹⁵ – 10³⁰ **PL1: European Green Deal**
Michael Rupp - *Head of Sector Connectivity and Green Deal, DG NEAR Eastern Partnership, European Commission*
- 10³⁰ – 10⁴⁵ **PL2: Ecological interactions within the rumen microbiome shape the ruminant phenotype**
Sharon Huws – *Queen’s University Belfast, United Kingdom; The Institute for Global Food Security*
- 10⁴⁵ – 11⁰⁰ **PL3: An Overview of Agriculture in Nigeria**
Mariam Birma - *Ahmadu Bello University, Zaria – Nigeria*

Section: Food Chemistry, Engineering & Technology

*”Iulian Drăcea” Auditorium
Banat’s University of Agricultural Sciences and Veterinary Medicine
“King Michael I of Romania” from Timișoara
1st Day – 20th of May, 2021 (Thursday)*

Registration (ON-LINE)

- 16⁰⁰ – 16¹⁰ Opening of the Conference (Section: *Food Chemistry, Engineering & Technology*)
Adrian Riviș, *Dean of the Faculty of Food Engineering, Banat’s University of Agricultural Sciences and Veterinary Medicine “King Michael I of Romania” from Timișoara*
- Nicoleta Gabriela Hădărugă**, *Vicedean of the Faculty of Food Engineering, Banat’s University of Agricultural Sciences and Veterinary Medicine “King Michael I of Romania” from Timișoara*

Multidisciplinary Conference on Sustainable Development

Section: Food Chemistry, Engineering & Technology

Chaired by: Eng. Claudia Isabela Oprinescu

"Iulian Drăcea" Auditorium

Banat's University of Agricultural Sciences and Veterinary Medicine

"King Michael I of Romania" from Timișoara

- 16¹⁰ – 16⁴⁵ **PL₁**: Metal-induced biomimesis in metabolically relevant processes
Athanasios Salifoglou, Olga Tsave - *Laboratory of Inorganic Chemistry and Advanced Materials, School of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki 54124, Greece*
- 16⁴⁵ – 17⁰⁰ **IL₁**: Biologically active antitumor novel vanadoform containing peroxido and betaine moieties
Efrosini Kioseoglou, Sevasti Matsia, Antonios Hatzidimitriou, Athanasios Salifoglou - *School of Chemical Engineering, Laboratory of Inorganic Chemistry and Advanced Materials, Aristotle University of Thessaloniki, 54124, Greece*
- 17⁰⁰ – 17¹⁵ **IL₂**: Flavonoid-based organic and metal-organic materials as antioxidant potential agents in metabolic syndromes.
Sevasti Matsia, Athanasios Salifoglou - *School of Chemical Engineering, Laboratory of Inorganic Chemistry and Advanced Materials, Aristotle University of Thessaloniki, 54124, Greece*
- 17¹⁵ – 17³⁰ **IL₃**: Properties and physicochemical characterization of biodegradable 3D printed scaffolds
Konstantina Vlachaki, Sevasti Matsia, Konstantinos Rogkotis, Athanasios Salifoglou - *School of Chemical Engineering, Laboratory of Inorganic Chemistry and Advanced Materials, Aristotle University of Thessaloniki, 54124, Greece*
- 17³⁰ – 17⁴⁵ **OC₁**: Health effects of wormwood (*Artemisia absinthium* L.): From antioxidant to nutraceutical
Maria-Evelina Bordean, Sevastița Muste, Georgiana Smaranda Marțiș, Vlad Mureșan, Bettina-Cristina Buican - *University of Agricultural Science and Veterinary Medicine Cluj-Napoca, 400372, Doctoral School of Agricultural and Engineering Sciences, Field: Agronomy, Calea Mănăștur, no. 3-5, Cluj-Napoca, Romania*
- 17⁴⁵ – 18⁰⁰ **OC₂**: Optimization of antimicrobial edible films obtaining process and their characterization
Maria-Ioana Socaciu, Melinda Fogarasi, **Cristina Anamaria Semeniuc**, Sonia Ancuța Socaci, Mihaela Ancuța Rotar, Vlad Mureșan, Oana Lelia Pop, Dan Cristian Vodnar - *Faculty of Food Engineering, Banat's University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania" from Timisoara, Romania*
- 18⁰⁰ – 18¹⁵ Concluding Remarks

POSTERS

- P₁** Mass transfer through biodegradable and edible membranes important factor in the stability of meat preparations
Sonia Amariei, Ionuț Avramia, Florin Ursachi, Ancuța Chetrariu - *Faculty of Food Engineering, Ștefan cel Mare University of Suceava*
- P₂** The environmental impact of waste dumping on soil health and vegetation contamination level
Despina-Maria Bordean, Luminita Pirvulescu, Mariana-Atena Poiana, Ersilia Alexa, Diana Nicoleta Raba, Liana Alda, Aurica Breica Borozan, Corina Dana Misca, Ioan Ladislau Caba - *Faculty of Food Engineering, Banat's University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania" from Timisoara, Calea Aradului no. 119, 300645 Timisoara, Romania*
- P₃** Innovative protein bar - obtaining and evaluating of some physico-chemical and nutritional characteristics
Delia-Gabriela Dumbravă, Radu-Marian Tulpan, Camelia Moldovan, Diana-Nicoleta Raba, Viorica- Mirela Popa, Nicoleta-Gabriela Hădărugă - *Faculty of Food Engineering, Banat's University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania" from Timisoara, Calea Aradului no. 119, 300645 Timisoara, Romania*
- P₄** A challenging biostimulant used in agriculture: Papain – study on its mechano-chemical properties
Simona Butan, Veronica Filimon - *"Dunarea de Jos" University of Galati, Faculty of Sciences and Environment, 47 Domneasca Street, 800008, Galati, Romania*
- P₅** Contributions related to the analysis of the absorption of European funds by the food producing industry in the V-West region of Romania
Cristian Edmund Csoz, Teodor – Ioan Trașcă - *Faculty of Food Engineering, Banat's University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania" from Timisoara, Calea Aradului no. 119, 300645 Timisoara, Romania*
- P₆** Hybrid bis-peroxido-zwitterion-vanadium compounds as oxidation catalysts with technological applications
Efrosini Kioseoglou, Antonios Hatzidimitriou, Athanasios Salifoglou - *School of Chemical Engineering, Laboratory of Inorganic Chemistry and Advanced Materials, Aristotle University of Thessaloniki, 54124, Greece*
- P₇** Vanadium peroxido compounds reduces autophagic flux and inhibits epithelial-mesenchymal transition by triggering TRAIL-induced apoptosis in cancer cells
Efrosini Kioseoglou, Antonios Hatzidimitriou, Athanasios Salifoglou - *School of Chemical Engineering, Laboratory of Inorganic Chemistry and Advanced Materials, Aristotle University of Thessaloniki, 54124, Greece*
- P₈** *Monascus purpureus*, monacolin K and dyslipidemia
Doina Georgescu, Simona Dragan, Mihaela Muntean, Oana-Elena Ancusa, Ioana Suceava, Liviu-Andrei Georgescu - *Department of Internal Medicine I, "Victor Babeș" University of Medicine and Pharmacy, Timisoara, Romania*
- P₉** Exploring the phytochemicals and bioactive potential of gooseberries: A review
Roxana-Diadora Gruiescu, Despina-Maria Bordean, Adriana-Ioana Moraru Manea, Diana Moigradean, Mariana-Atena Poiana - *Faculty of Food Engineering, Banat's University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania" from Timisoara, Calea Aradului no. 119, 300645 Timisoara, Romania*

Multidisciplinary Conference on Sustainable Development

Section: Food Chemistry, Engineering & Technology

- P10** Preliminary aspects regarding the role of the technological operations to produce an authentic food
Ilie (căs. Hires) Sorina Elena, Trașcă Teodor - Ioan - *Faculty of Food Engineering, Banat's University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania" from Timisoara, Calea Aradului no. 119, 300645 Timisoara, Romania*
- P11** Past, present and future for traditional products from southeastern Romania
Gabriela Iordăchescu, Vassilis Inglezakis, Silviu Stanciu, Gabriela Ploscuțanu, Augustin Octavian Mihalache - *"Dunărea de Jos" University, Faculty of Food Science and Engineering, Department Food Science, Food Engineering, Biotechnologies and Aquaculture, 111 Domnească str. Galați, Romania, University of Strathclyde, Chemical Process Engineering Department, 347 Cathedral Street, Glasgow, UK*
- P12** Thermostability of biological active compounds extracted red beetroot by products
Silvia Lazăr (Mistrieanu), Gabriela Râpeanu, Nicoleta Stănciuc, Iuliana Aprodu, Oana Constantin - *"Dunărea de Jos" University of Galati, Faculty of Food Science and Engineering, 111 Domnească Street, RO-800201, Galati, Romania*
- P13** Sensory and physical-chemical characterization of a Romanian dairy product: Sana
Corina Iuliana Megyesi, Lucian Radu, Nicoleta Gabriela Hădăruță - *Department of Food Science, Banat's University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania" – Timișoara, Calea Aradului 119, 300645 – Timișoara, Romania*
- P14** Preliminary research on the health benefits of dried Muscat Ottonel grape (*Vitis Vinifera* L.) probiotic pomace
Larisa Anghel, Adelina Ștefania Milea, Liliana Ceclu, Oana Emilia Constantin, Oana – Viorela Nistor, Doina Georgeta Andronoiu, Livia Pătrașcu, Gabriel – Dănuț Mocanu - *Department of Food Science, Food Engineering, Biotechnology and Aquaculture, Food Science and Engineering Faculty, „Dunarea de Jos” University of Galati, Romania; Department of Engineering and Applied Sciences, Faculty of Economics, Engineering and Applied Sciences, „Bogdan Petriceicu Hasdeu” Cahul State University, Cahul, Republic of Moldova*
- P15** The use of natural antioxidants of vegetal origin as food additives in meat and meat products: A review
Adriana-Ioana Moraru Manea, Diana-Nicoleta Raba, Roxana-Diadora Gruiescu, Diana Moigradean, Mariana-Atena Poiana - *Faculty of Food Engineering, Banat's University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania" from Timisoara, Calea Aradului no. 119, 300645 Timisoara, Romania*
- P16** Mulberry fruits source of biominerals and bioactive compounds
Georgeta-Sofia Popescu, Ariana-Bianca Velcirov, Nicoleta Nebancea - *Faculty of Food Engineering, Banat's University of Agricultural Sciences and Veterinary Medicine "King Mihai I of Romania" Timisoara, Romania*
- P17** Chemical and nutritional characteristics of innovative sausage prototypes
Georgeta-Sofia Popescu, Ariana-Bianca Velcirov, Florina Radu, Lia Rotariu, Antoanela Cozma - *Faculty of Food Engineering, Banat's University of Agricultural Sciences and Veterinary Medicine "King Mihai I of Romania" Timisoara, Romania*

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Section: Food Chemistry, Engineering & Technology

- P18** Preliminary aspects regarding the dairy product “Brânza de Novaci” as a Protected Designation of Origin
Petru Bogdan Radoi, Ionela Jianu, Alexandru Erne Rinovetz - *Faculty of Food Engineering, Banat's University of Agricultural Sciences and Veterinary Medicine “King Mihai I of Romania” Timisoara, Romania*
- P19** Hydromel, food fortification potential
Alexandru Rinovetz, Felicia-Antonela Bernat, Ersilia Alexa, Corina Mișcă, Despina Bordean, Ariana Velcirov, Ileana Cocan, Monica Negrea, Petru Bogdan Rădoi, Okros Adalbert - *Faculty of Food Engineering, Banat's University of Agricultural Sciences and Veterinary Medicine “King Mihai I of Romania” Timisoara, Romania*
- P20** Fatty acids distribution in different pastries
Lia Sanda Rotariu, Iuliana Popescu, Sofia Popescu, Florina Radu - *Faculty of Management and Rural Tourism, Banat's University of Agricultural Sciences and Veterinary Medicine “King Mihai I of Romania” Timisoara, Romania*
- P21** Future trends on special beer segment expansion
Liana-Claudia Salanță, Maria Tofană, Elena Mudura, Carmen R. Pop, Teodora E. Coldea, Valentina M. Ignat, Anamaria Pop, Andrei Borșa - *Department of Food Science, Faculty of Food Science and Technology, University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, 3-5 Calea Mănăștur, Cluj-Napoca, Romania*
- P22** Characterization of the red grapes of microencapsulated powder
Daniela Serea, Gabriela-Elena Bahrim, Iuliana Aprodu, Nicoleta Stanciuc, Livia Patrascu, Gabriela Rapeanu - *Faculty of Food Science and Engineering, Dunarea de Jos University of Galati, 111 Domneasca Street, 800201, Galati, Romania*
- P23** Development of anthocyanins-rich buns based on purple corn flour (*Zea mays* L.)
Mioara Gabriela Slavu (Ursu), Ștefania-Adelina Milea, Iuliana Aprodu, Iuliana Banu, Gabriela Răpeanu, Nicoleta Stănciuc - *“Dunărea de Jos” University of Galati, Faculty of Food Science and Engineering, Domneasca Street 111, Building E; 800201, Galati, Romania.*
- P24** Microencapsulation of some glucosinolates from *Brassica oleracea* extract in β -cyclodextrin
Mariana Nela Ștefănuț, Raluca O. Pop, Adina Căta, Ioana Maria Ienașcu - *National Institute of Research and Development for Electrochemistry and Condensed Matter, Dr. A. P. Poddeanu 144, 300569 Timișoara, Romania*
- P25** Microencapsulation of red onion skins anthocyanins by freeze drying method
Florina Stoica, Gabriela Rapeanu, Nicoleta Stanciuc, Iuliana Aprodu, Livia Pătrașcu, Gabriela Elena Bahrim - *Faculty of Food Science and Engineering, University of “Dunărea de Jos”, Galați, Domnească Street 111, Galați, România*
- P26** Evaluating soil spore-forming bacteria to prevent food contamination
Laurențiu Urucu, Izabela Vulpe, Dana Gina Radu - *“Aurel Vlaicu” University of Arad, Faculty of Food Engineering, Tourism and Environmental Protection, Arad, Romania*
- P27** Determination of some nutritional parameters of dark chocolate
Ariana – Bianca Velcirov, Adrian Riviș, Georgeta – Sofia Popescu, Antoanela Cozma, Andreea – Annemarie Kiss, **Maria Rada** - *University of Medicine and Pharmacy “Victor Babes”, 300041, Timisoara, Romania*

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- P₂₈** Evaluation of some nutritional parameters of dried figs
Ariana – Bianca Velcirov, Adrian Riviş, Milan Velimirovici, Georgeta – Sofia Popescu, Daniela Stoin, Dana Velimirovici, **Maria Rada** - *University of Medicine and Pharmacy “Victor Babes”, 300041, Timisoara, Romania*
- P₂₉** Polyphenols from *Vitis* species: occurrence, antioxidant properties and interactions with cyclodextrins
Claudia Oprinescu, Paul Moldovan, Daniel Ioan Hădărugă, Nicoleta Gabriela Hădărugă - *Doctoral School “Engineering of Vegetable and Animal Resources”, Banat’s University of Agricultural Sciences and Veterinary Medicine “King Michael I of Romania” from Timișoara, Calea Aradului 119, 300645-Timișoara, Romania*
- P₃₀** Triterpenoid saponins from *Aesculus* species: occurrence, chronic venous insufficiency effects and interactions with cyclodextrins
Laurențiu-Răzvan Drăghici, Daniel Ioan Hădărugă, Nicoleta Gabriela Hădărugă - *Doctoral School “Engineering of Vegetable and Animal Resources”, Banat’s University of Agricultural Sciences and Veterinary Medicine “King Michael I of Romania” from Timișoara, Calea Aradului 119, 300645-Timișoara, Romania*

