



# CMAPSEEC 2022

11<sup>th</sup> Conference on Medicinal and Aromatic  
Plants of Southeast European Countries

**-FINAL PROGRAM-**

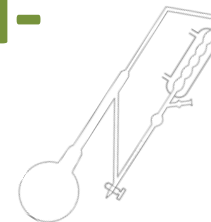
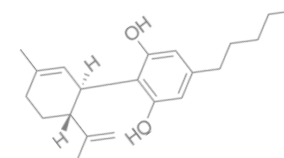
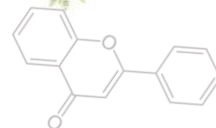
Ohrid, R. North Macedonia  
06 – 10 October 2022

[www.cmapseec.mfd.org.mk](http://www.cmapseec.mfd.org.mk)

Joint event of:

**7** Congress of  
**PHARMACY**  
in North Macedonia  
with international participation

<http://congress.mfd.org.mk/en/home/>



# THURSDAY, OCTOBER 6<sup>TH</sup>, 2022

Thursday 6/10/2022		
	Hotel lobby	Congress Hall
09:00 – 13:00	Arrival and Accommodation	
13:00 – 14:00	Registrations	
14:00 – 14:30		
14:30 – 17:00		
19:00 – 19:30	Opening ceremony	
19:00 – 19:30		<b>Welcome address</b> President of Organizing Committee of the 11 <sup>th</sup> CMAPSEEC – Gjoshe Stefkov President of Organizing Committee of 7 <sup>th</sup> Congress of Pharmacy in North Macedonia with international participation – Rumenka Petkovska Dean of Faculty of Pharmacy, Ss. Cyril and Methodius University in Skopje – Zoran Sterjev President of Scientific Committee of the 11 <sup>th</sup> CMAPSEEC – Biljana Bauer President of AMAPSEEC – Zora Dajic Stevanovic
19:30 – 20:00		<b>Opening lecture:</b> Portable NIR sensors in medicinal plant quality control – Christian W. HUCK (Austria)
20:00 – 20:30		Medicinal and Aromatic plants in National Park Galicica – Andon Bojadzi (N. Macedonia)
20:30 -		Welcoming cocktail



**FRIDAY, OCTOBER 7<sup>TH</sup>, 2022**

Friday 7/10/2022		
	Congress Hall	Hotel Granit
<b>Session 1: Phytochemistry, ecology and diversity</b>		
09:00 – 09:30	Bioactive constituents of some plant species from the mountain Galičica – Iris Djordjevic (Serbia)	
09:30 – 10:00	EthnoHERBS: Conservation of European Biodiversity through Exploitation of Traditional Herbal Knowledge for the Development of Innovative Products – Nektarios Aligiannis (Greece)	
10:00 – 10:30	Anti-obesity molecules of natural origin – Milen Georgiev (Bulgaria)	
10:30 – 11:00	Flavonoids and Possible COVID-19 Integrative Considerations – Pawan K Agrawal (USA)	
11:00 - 11:30	Poster discussion	Coffee break
11:30 – 11:45	Pyrrolizidine alkaloid plant species in the area of large-scale chamomile cultivation in Croatia – Filip Varga (Croatia)	
11:45 – 12:00	Anti-melanoma effects of ingenanes isolated from Euphorbia species – Gordana Krstić (Serbia)	
12:00 – 12:15	Rapid annotation of acylquinic acids in Tanacetum balsamita L. with a practical strategy of diagnostic ions based on Orbitrap mass spectrometry – Renata Gevrenov (Bulgaria)	
12:15 – 12:30	The reliability and limitation of UHPLC-HRMS in the sesquiterpene lactones dereplication: a case study of two Asteraceae species – Dimitrina Zheleva-Dimitrova (Bulgaria)	
12:30 – 14:00		Lunch time
14:00 – 14:30	REPLEK AD Skopje, Professional Symposium (sponsored)	
14:30 – 15:00	Sinceritas AD Skopje, Challenges and best practices in phytopharmaceutical production – Hristina Litovin	

Exhibition and Posters

**FRIDAY, OCTOBER 7<sup>TH</sup>, 2022**

Friday 7/10/2022		
	Congress Hall	Hotel Granit
<b>Session 2: 360° Cannabis</b>		
15:00 – 15:30	<b>Synthesis, biological activities of CBD and its derivatives</b> – Shen Jingshan (PR China)	
15:30 – 16:00	<b>Medicinal Cannabis Regulatory landscape: GACP &amp; GMP</b> – Luis Meirinhos Soares (Portugal)	
16:00 – 16:30	<b>Determination of Terpene Profiles in Medical Cannabis</b> – John Upton (UK)	
16:30 – 17:00	Poster discussion	Coffee break
17:00 – 17:15	<b>Terpene profiles of different Cannabis plant varieties, cultivated in NYSK Holdings, Skopje</b> – Tatjana Rusevska	Sightseeing Ohrid
17:15 – 17:30	<b>Development of powerful chromatographic methods for better separation of tetrahydrocannabinol isomers during HPLC analysis of cannabis flowers and extracts</b> – Irena Slavevska Spirevska	
17:30 – 17:45	<b>Comparative analysis of the advantages and disadvantages of olive oil and supercritical CO<sub>2</sub> extraction in producing Cannabis extracts for medicinal purposes in the production area with GMP standards</b> – Sofija Lazarevska	
17:45 – 18:00	<b>THCA → THC conversion and its importance for the stability and quality of the herbal material</b> – Olga Gigopulu	
18:00 – 18:15	<b>Terpene profile in fresh flowers of outdoor cultivated commercial strains and wildtype of Cannabis</b> – Veronika Stoilkovska Gjorgievska	
18:15 – 18:30	<b>Regulation on pesticide residues use and testing in cannabis and cannabis-based products in Europe and human exposure risk</b> – Milka Ljoncheva	
18:30 – 19:00	Poster discussion	
19:00 – 19:45	VARUS DOOEL Skopje, Professional Symposium (sponsored)	Exhibition and Posters
19:45 –	Cocktail party	

**SATURDAY, OCTOBER 8<sup>TH</sup>, 2022**

**Saturday 8/10/2022**

Saturday 8/10/2022			
	Congress Hall	Hotel Granit	
<b>Session 3: Pharmacology and phytotherapy (bioactivity, toxicity, ethnopharmacology and ethnobotany)</b>		Exhibition and Posters	
<b>09:00 – 09:30</b>	<b>Bioactivity of carotenoids and their role in skin disorders: from tradition to application</b> – Zora Dajic Stevanovic (Serbia)		
<b>09:30 – 10:00</b>	<b>From experience to evidence, a long and risky road of Salvia miltiorrhiza Depsides Salts</b> – Lijiang Xuan (PR China)		
<b>10:00 – 10:30</b>	<b>Bioavailability and metabolism of olive bioactives</b> – Maria Halabalaki (Greece)		
<b>10:30 – 11:00</b>	<b>Chemical-mediated somatic cell reprogramming and transdifferentiation</b> – Xin Xie (PR China)		
<b>11:00 – 11:15</b>	<b>Garlic essential oil shows no antiviral effects on the replication of HSV-1 in the virus-infected VERO cells</b> – Elwira Sieniawska (Poland)		
<b>11:15 – 11:30</b>	Discussion		
<b>11:30 – 12:00</b>	Poster discussion		Coffee break
<b>12:00 – 12:30</b>	Natusana Macedonia, Professional Symposium (sponsored)		
<b>12:30 – 14:30</b>	Lunch time		



**SATURDAY, OCTOBER 8<sup>TH</sup>, 2022**

**Saturday 8/10/2022**

**Congress Hall**

**Hotel Granit**

**Session 4: Production of herbal substances and preparations (cultivation, breeding, biotechnology and processing)**

<b>14:30 – 15:00</b>	<b>Chromatographic fingerprinting for the detection of herbal adulteration and herbal fraud in plant food supplements – Eric Deconinck (Belgium)</b>	
<b>15:00 – 15:30</b>	<b>The Importance of Medicinal and Aromatic Plant Cultivation in Sustainable Development of the Agricultural Landscape – Ivan Salamon (Slovakia)</b>	
<b>15:30 – 16:00</b>	<b>Market and evidence-based income challenges of growing medicinal plants in Serbia – Dejan Pljevljakusic (Serbia)</b>	
<b>16:00 – 16:30</b>	Poster discussion	Coffee break
<b>16:30 – 16:45</b>	<b>Active substances and colour characteristics of Peppermint (<i>Mentha x piperita</i> L.) leaves influenced by different preservation methods – Urbashi Hazarika (Hungary)</b>	
<b>16:45 – 17:00</b>	<b>Insight into C, O – glycosyl flavones of two Bulgarian Gypsophila species – Vessela Balabanova (Bulgaria)</b>	
<b>17:00 – 17:15</b>	<b>Biomass production and cannabinoid accumulation in Cannabis (<i>Cannabis sativa</i> L.) callus cultures – Ana Trajkovska</b>	
<b>17:15 – 17:30</b>	Discussion	

**18:00 – 19:00** **Closing ceremony of the 7th Congress of Pharmacy in North Macedonia with international participation and of the 11th Conference of Medicinal and Aromatic Plants of Southeast European Countries (CMAPSEEC) and Best student’s oral/poster presentation award ceremony**

**19:00 –**

Karaoke

Exhibition and Posters



# SUNDAY, OCTOBER 9<sup>TH</sup>, 2022

Sunday 9/10/2022	
08:00 – 18:00	Field Excursion Visit of National Park Galicica and Monastery of St. Naum, UNESCO World Heritage Site Lunch
18:00 – 19:00	AMAPSEEC meeting

# MONDAY, OCTOBER 10<sup>TH</sup>, 2022

Monday 10/10/2022	
08:00 –	Departures