

**The 12th Conference on Medicinal and Aromatic Plants  
of Southeast European Countries**

# **CMAPSEEC-2024 PROGRAM BOOK**

**FINAL 16.10.2024**

**October 17<sup>th</sup> – 19<sup>th</sup>, 2024**

**Dokuz Eylul University, Rectorate Halls  
Alsancak, İzmir - Türkiye**

**CMAPSEEC-2024  
ORAL PROGRAM**

## 17 OCTOBER 2024, THURSDAY

9.00 – 12.00

REGISTRATION

13.00 – 13.30

- **OPENING CEREMONY & WELCOME SPEECHES**

**Prof. Dr. İlkay ERDOĞAN ORHAN**

Chair of CMAPSEEC-24 Symposium

**Prof. Dr. Görkem AKINCI**

President of the Local Committee

**Prof. Dr. Nazım ŞEKEROĞLU**

President of AMAPMED

**Prof. Dr. Zora DAJIĆ STEVANOVIC**

President of AMAPSEEC

- **PROTOCOL SPEECHES**

- **CMAPSEEC-2024 CONFERENCE GROUP PHOTO**

**SALON A / SESSION – I**

**CHAIRS:** Prof. Dr. Zora DAJIĆ STEVANOVIĆ & Prof. Dr. Nazım ŞEKEROĞLU

**13.45 – 14.30**

**Invited Lecturer: Prof. Dr. Hüsnu Can BAŞER**  
"Türkiye as a Source for Medicinal and Aromatic Plants", **TRNC**

**14.30 – 15.00**

**Invited Lecturer: Prof. Dr. Patrícia RIJO**  
"Exploring Aromatic Plant Potential: Therapeutic Innovations from the Plectranthus Genus and Beyond", **PORTUGAL**

**15.00 – 15.30**

**Invited Lecturer: Andrea PRIMAVERA**  
"Medicinal and aromatic plants: an overview on Italian market and major challenges for growers and processors in EU", **ITALY**

**15.30 – 16.00**

**COFFEE BREAK**

**SALON A / SESSION – II**

**CHAIRS:** Prof. Dr. Hüsnü Can BAŞER & Prof. Dr. Patricia RIJO

**16.00 – 16.30**

**Invited Lecturer: Prof. Dr. Lei SHI**  
"Aromatic Plants in China: Opportunities and Challenges", **CHINA**

**16.30 – 17.00**

**Invited Lecturer: Prof. Dr. Milen I. GEORGIEV**  
"Nurturing Longevity Through Natural Compounds", **BULGARIA**

**17.00 – 17.30**

**Invited Lecturer: Prof. Dr. Emine Şeküre Nazlı ARDA**  
"To Bee or Not to Bee: Can Natural Products Be A Solution Against Global Warming and Environmental Risks?", **TÜRKİYE**

**17.30 – 18.00**

**POSTER SESSION**

**18.00 – 19.00**

**WELCOME COCKTAIL**

## 18 OCTOBER 2024, FRIDAY

### SALON A / SESSION – III

**CHAIRS:** Prof. Dr. Görkem AKINCI & Prof. Dr. Milen I. GEORGIEV

**09.00 – 09.30**

**Invited Lecturer: Prof. Dr. Kerem CANLI**  
“Medicinal Uses and Biochemical Properties of Mosses”, TÜRKİYE

**09.30 – 10.00**

**Invited Lecturer: Prof. Dr. Erdal BEDİR**  
“Multi-Target Effects of Cycloastragenol and Its Derivatives on Age-Related Pathways”, TÜRKİYE

**10.00 – 11.15**

**ORAL PRESENTATIONS**

**OP-1**

Green tea (*Camellia sinensis*) pressurized hot water extraction inhibited lipid peroxidation in high-fat diet mice and Ox-LDL-mediated RAW246.7 macrophages apoptosis  
**Moragot Chatatikun, Anawat Kongchain, Rahni Hossian, Manit Nuinoon, Kunwadee Noonong, Wiyada Kwanhian Klangbud, Chutha Takahashi Yupanquid, Hideyuki J. Majima, Hiroko P. Indo, Dangling Wang, Dali Sun, Nazim Sekeroglu, Jitbanjong Tangpong**



**SALON A / SESSION – IV****CHAIRS:** Prof. Dr. Vessela Balabanova & Prof. Dr. İlkey ERDOĞAN ORHAN**11.30 – 12.45** | **ORAL PRESENTATIONS**

<b>OP-6</b>	Aromatherapy Applications Used In Cancer Pain <b>Hayriye Alp, İsmail Eseoğlu, Esra Arbağ, Şerife Aydın</b>
<b>OP-7</b>	Antioxidant, Anti-Apoptotic and Anti-Inflammation Properties of <i>Thunbergia laurifolia</i> Lindl. Extract <b>Wiyada Kwanhian Klangbud, Wilaiwan Senghoi, Nattaya Konsue, Si Qin</b>
<b>OP-8</b>	Isolation and Structure Determination of A Flavonol Glycoside from <i>Euphorbia amygdaloides</i> <b>Danica Savić, Stefan Lekić, Gordana Krstić, Milka Jadranin, Ljubodrag Vujisić, Vele Tešević, Slobodan Milosavljević</b>
<b>OP-9</b>	Raman Spectroscopy as An Emerging Tool in Characterization of Natural Products and Foods: The Carotenoids as a Model Nutrients <b>Zora Dajić Stevanović, Stefan Kolašinac, Ilinka Pećinar, Ivan Šoštarić</b>
<b>OP-10</b>	Phytochemical Study of <i>Daphne blagayana</i> Freyer <b>Gordana Krstić, Danica Savić, Milka Jadranin, Vele Tešević, Stefan Lekić, Ljubodrag Vujisić, Miroslav Novaković</b>
<b>12.45 – 13.30</b>	<b>LUNCH TIME</b>



**SALON A / SESSION – V**

**CHAIRS:** Prof. Dr. Lei SHI & Prof. Dr. Kerem CANLI

<b>13.30 – 14.00</b>	<b>Invited Lecturer: Dr. Jelena MUDRIC</b> "Tailor-made gastroretentive carrier with encapsulated gentian root extract", <b>SERBIA</b>
<b>14.00 – 15.15</b>	<b>ORAL PRESENTATIONS</b>
<b>OP-11</b>	Optimizing Extraction Strategies for Isolating 3'-8" Biflavones from <i>Ginkgo</i> ( <i>Ginkgo biloba</i> L.) <b>Dunja Šamec, Iva Jurčević Šangut, Bruno Zelić, Anita Šalić</b>
<b>OP-12</b>	Protective Potential of <i>Cicerbita alpina</i> Leaves Extract On Metabolic Disorders and Oxidative Stress In Model Animals <b>Dimitrina Zheleva-Dimitrova, Romyana Simeonova, Yonko Savov, Reneta Gevrenova, Vessela Balabanova, Georgi Momekov</b>
<b>OP-13</b>	Lavender: genomics research, biosynthesis and regulation of terpenoids and their ecological functions <b>Hui Li, Lei Shi, Jingrui Li, Zhengyi Ling, Wenying Zhang, Hongtong Bai, Fei Xia, Yanmei Dong, Di Wang</b>
<b>OP-14</b>	Biological Activities of <i>Centaurea urvillei</i> subsp. <i>urvillei</i> and Its Green Synthesized Silver Nanoparticles <b>Burcu Sümer Tüzün</b>

<b>OP-15</b>	<i>Calendula officinalis</i> L.: From Sustainable Agriculture to Cosmetic Formulations-Cultivation in Mediterranean Climates <b><u>Gülsüm Boztaş, R. Refika Akçalı Giachino</u></b>
<b>15.15 – 15.30</b>	<b>COFFEE BREAK</b>
<b>SALON A / SESSION – VI</b>	
<b>CHAIRS: Prof. Dr. Jitbanjong TANGPONG &amp; Prof. Dr. Erdal BEDİR</b>	
<b>15.30 – 16.45</b>	<b>ORAL PRESENTATIONS</b>
<b>OP-16</b>	Evaluation of Olive Leaves in Olive Pruning Waste: Some Pharmacological Analyses of 4 Different Selected Olive Cultivars (Cv. Halhali, Karamani, Gemlik and Arbequina) <b><u>Giovanni Caprioli, Gokhan Zengin, Nadire Pelin Bahadırli</u></b>
<b>OP-17</b>	Determination of Antimicrobial Activity of <i>Liquidambar orientalis</i> Balsam Oil <b><u>Ozlem Ovardi</u></b>
<b>OP-18</b>	Evaluation of Commercial Thyme Essential Oil Samples According to European Pharmacopoeia 10.0 Criteria <b><u>Nehir Kavi, İrem Şevval Bayri, Tuğba Buse Şentürk, Timur Hakan Barak</u></b>
<b>OP-19</b>	Influence of Maceration Period on The Color Change of <i>Hypericum perforatum</i> L. Olive Oil Macerate

	Betül Cete, <u>Nazım Sekeroglu</u> , Sevgi Gezici, Fatih Yayla, Hasene Keskin Cavdar
OP-20	A New Antioxidant-Rich Crop for Turkey: Aronia <u>Avşe Betül Avcı</u>
16.45 – 17.00	COFFEE BREAK
<b>SALON A / SESSION – VII (On-line)</b>	
<b>CHAIRS:</b> Prof. Dr. Emine Şeküre Nazlı ARDA & Dr. Elmira Ziya MOTALEBİPOUR	
17.00 – 18.15	<b>ORAL PRESENTATIONS (On-line)</b>
OP-21	General Phytochemical Profile and Antioxidant Activity of <i>Hypericum perforatum</i> Tea from The Rtanj Mountain Region: Insights into Traditional Medicinal Use <u>Sofija Kilibarda, Sandra Vuković, Aleksandar Ž. Kostić</u>
OP-22	Investigation into Essential Oil Compounds of Some Coniferous Species Growing in Turkey <u>Mehmet Kurtca</u>
OP-23	Capparis and Its Applications in Animal Nutrition and Treatment <u>Elmira Ziya Motalebipour, Akbar Pirestani</u>
OP-24	Isolation, Purification And Structure Determination of Secondary Metabolites from <i>Dracocephalum imberbe</i> <u>Seda Kilincarslan, Kalipa Salieva, Nurbek Aldayarov, Bakyt Borkoev, Nazli Boke Sarikahya</u>

<b>OPP – 1</b> (online)	Application of Multivariate Regression Analysis for Prediction of Essential Oil Composition from 46 Different Sage Populations <u>Ivana Cvetkovikj Karanfilova</u> , Maja Simonoska Crcarevska, Marija Karapandzova, Veronika Stoilkovska Gjorgievska, Ana Trajkovska, Iskra Davkova, Gjoshe Stefkov
<b>OPP – 2</b> (online)	Insights from UHPLC-Orbitrap MS Analysis of <i>Plantago major</i> as a potential herbal drug in wound healing <u>Iskra Davkova</u> , Uros Gašić, Filip Nikolic, Ana Trajkovska, Ivana Cvetkovikj Karanfilova, Gjoshe Stefkov, Danijela Mišić, Marija Karapandzova
<b>18.15 – 18.30 CLOSING CEREMONY</b>	

**CMAPSEEC-2024  
POSTER PROGRAM**

## POSTER SESSIONS

PP – 1	Influence of Abiotic And Biotic Elicitors On Sesquiterpene Lactone Production In <i>Arnica montana</i> L. <i>In Vitro</i> Shoot Cultures <b><u>Antoaneta Trendafilova, Viktoria Ivanova, Milena Nikolova, Maria Geneva, Kamelia Miladinova-Georgieva, Lyudmila Dimitrova, Margarita Dimitrova, Maria Petrova</u></b>
PP – 2	St. John's Wort: From An Ancient Protector To A Modern Antidepressant <b><u>Ana Cvijic, Biljana Bauer</u></b>
PP – 3	<i>In Silico</i> Analysis On Some Bioactive Compounds Of <i>Citrus</i> Sp. <b><u>İpek Süntar, Esra Emerce, Ömer Faruk Yakıncı</u></b>
PP – 4	Assessing the Effectiveness of Chamomile Root Essential Oil For Controlling <i>Aspergillus flavus</i> <b><u>Dejan Pljevljakušić, Tatjana Stević</u></b>
PP – 5	Extraction of Anethole from Fennel Leaves <b><u>Nina Djapic</u></b>
PP – 6	Fermented Food Products From Raspberries And Blackberries- A New Formulation For Functional Beverages <b><u>Sanja Kostadinović Veličkovska, Daniela Todevska, Fidanka Ilieva, Zorica Temelkova</u></b>
PP – 7	Phytochemical Profiling of Selected Asteraceae Species: A Rich Source of Secondary Metabolites with Health Benefits <b><u>Vessela Balabanova, Reneta Gevrenova, Dimitrina Zheleva-Dimitrova, Georgi Momekov</u></b>

PP – 8	Rapid Annotation of Caffeic Acid Conjugates and Prenylated Phloroglucinol-A-Pyrone in <i>Helichrysum italicum</i> by Orbitrap Mass Spectrometry <b><u>Reneta Gevrenova</u>, <u>Dimitrina Zheleva-Dimitrova</u>, <u>Vessela Balabanova</u>, <u>Georgi Momekov</u></b>
PP – 9	A Comprehensive Metabolic Profiling and Biological Potential Assessment of <i>Pelargonium graveolens</i> L'Hér. (Rose Geranium) <b><u>Reneta Gevrenova</u>, <u>Gokhan Zengin</u>, <u>Dimitrina Zheleva-Dimitrova</u>, <u>Vessela Balabanova</u>, <u>Alexandra Petrova</u>, <u>Alexandra Stefanova</u>, <u>Anna Szakiel</u></b>
PP – 10	Intraspecific Variation in Biflavonoid Profiles During Leaf Yellowing in <i>Ginkgo</i> Leaves <b><u>Iva Jurčević-Šangut</u>, <u>Dunja Šamec</u></b>
PP – 11	Biometric Characteristics of Seeds of Endangered Herbaceous Peony Species: Insights into Morphological Variation and Conservation Implications <b><u>Željana Prijić</u>, <u>Jelena Jocković</u>, <u>Ana Marjanović Jeromela</u>, <u>Milan Jocković</u>, <u>Nada Grahovac</u>, <u>Nikola Đukić</u>, <u>Tatjana Marković</u></b>
PP – 12	Survey on Agroforestry Utilization of Industrial Hemp <b><u>Krisztina Szabó</u>, <u>Péter Zubay</u></b>
PP – 13	Alkaloid Profiling and Anti-Cholinesterase Potential of <i>Galanthus fosteri</i> Baker Grown in Gaziantep Province <b><u>Buket Bozkurt</u>, <u>Hande Gürgen</u>, <u>Mustafa Ali Önür</u>, <u>Strahil Berkov</u>, <u>Jaume Bastida</u>, <u>Nehir Ünver Somer</u></b>
PP – 14	Evaluation of Some Herbal Slimming Teas / Supplements Sold on The Market in Terms of Adulteration <b><u>Merve Cingilioğlu</u>, <u>Ayhan İbrahim Aysal</u>, <u>Sinem Aslan Erdem</u>, <u>Fatma Sezer Şenol Deniz</u></b>

PP – 15	The Potential Use of Emulsion Adjuvants Containing Immunomodulatory Saponins in Vaccine Formulations Against Infectious Bronchitis Disease <b><u>Göksel Göktaş, Nazli Boke Sarikahya, Ayşe Nalbantsoy</u></b>
PP – 16	Investigation of the Immunomodulatory Potential of Saponins and Iridoids Isolated from <i>Scabiosa pseudograminifolia</i> Plant on Macrophage Polarization <b><u>Huriye Ece Tıkr, Gaye Sümer Okkalı, Nazlı Sarikahya, Ayşe Nalbantsoy</u></b>
PP – 17	Reproductive Potential of Peppermint ( <i>Mentha piperita</i> ) Cultivated Under Different Mulches <b><u>Ana Dragumilo, Tatjana Marković, Sara Mikić, Milan Lukić, Stefan Gordanić, Željana Prijić, Dragana Božić</u></b>
PP – 18	<i>In Silico</i> Evaluation of Semi-synthetic Derivatives of 7 $\alpha$ -acetoxy-6 $\beta$ -hydroxyroyleanone for Anticancer Potential <b><u>Vera M.S. Isca, Przemysław Sitarek, Anna Merez-Sadowska, Magdalena Malecka, Monika Owczarek, Joanna Wieczfinska, Radosław Zajdel, Paweł Nowak, Patricia Rijo, Tomasz Kowalczyk</u></b>
PP - 19	Activity of the Hydrolate of Chemotype of <i>Satureja montana</i> against <i>Alternaria</i> sp. <b><u>Sara Mikić, Natalija Čutović, Petar Batinić, Snežana Mrdan, Stefan Gordanić, Ana Dragumilo, Željana Prijić, Tatjana Marković</u></b>
PP-20	Toxicity of <i>Infundibulicybe geotropa</i> Methanol Extract on HEK293 Kidney Cells and Its Effects on Atopic Dermatitis Cell Culture <b><u>Kübra Tuna, Cansel Çakır, Deniz Genç, Gamze Yağcı, Şevki Arslan, Mehmet Öztürk</u></b>
PP-21	<i>In vitro</i> Bioactivities of <i>Silene sedoides</i> <b><u>Büşra Taneli, Ömerül Faruk Tavlı, Alevcan Kaplan, Mehmet Boğa, Hasan Şahin, Emel Mataracı Kara, Esra Eroğlu Özkan</u></b>



**19 OCTOBER 2024**

**SATURDAY**

**CONFERENCE TOUR**

**(Şirince Village and House of Virgin Mary)**

**FROM 10.00 to 17.00**

CMAI