

**The 11<sup>th</sup> International Mediterranean Symposium on  
Medicinal and Aromatic Plants**

**MESMAP - 11  
PROGRAM BOOK**

**05.05.2025**

**May 6<sup>th</sup> – 8<sup>th</sup>, 2025**

**Rimini - Expo Centre Meeting Halls  
Rimini - Italy**

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Gaziantep University, Gaziantep, TÜRKİYE

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\*Alphabetically ordered

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- Research Institute for Medicinal Plants and Herbs, Ltd. Hungary

**MESMAP – 11**  
**ORAL PROGRAM**

**6 May 2025, TUESDAY**  
**Meeting Area Spices and Herbs Pav. B2**

**10.00 – 17.00**

**REGISTRATION**

**12.30 – 13.00**

**• OPENING CEREMONY & OPENING SPEECHES**

**Prof. Dr. Nazım ŞEKEROĞLU**

Chair of MESMAP Symposiums

**Andrea PRIMAVERA**

President of Local Committee

FIPPO – Perugia, ITALY

**• PLAQUE PRESENTATIONS**

**• MESMAP SYMPOSIUM GROUP PHOTO**

**Meeting Area Spices and Herbs Pav. B2 / SESSION – I**

**CHAIRS: Prof. Dr. Patrícia Rijo & Prof. Dr. Ákos Máthé**

<b>13.00 – 13.30</b>	<b>Invited Lecturer: PROF. DR. RANDOLPH ARROO</b> De Montfort University, Leicester School of Pharmacy Leicester, UK <b>“Mediterranean Diet and the Gut-Brain Axis”</b>
<b>13.30 – 14.00</b>	<b>Invited Lecturer: PROF. DR. HÜSNÜ CAN BAŞER</b> Near East University, Pharmacy Faculty Pharmacognosy Department, Nicosia, TRNC <b>“Essential Oils and Aromatic Plants of Cyprus”</b>
<b>14.00 – 14.30</b>	<b>Invited Lecturer: PROF. DR. JOACHIM MÜLLER</b> University of Hohenheim, Institute of Agricultural Engineering, Stuttgart, GERMANY <b>“Energy-efficient and Quality-Preserving Drying of Medicinal and Aromatic Plants”</b>



<b>14.30 – 15.00</b>	<b>Andrea PRIMAVERA</b> FIPPO – Perugia, ITALY  “ <b>Medicinal and Aromatic Plants: An Overview on Italian Market and Major Challenges for Growers and Processors in EU</b> ”
<b>15.00 – 15.10</b>	<b><i>SCORPION ENGINEERING</i></b>  <b><i>Ms. Anna Strzelec</i></b>  <b><i>“From field to tea- bag; zero waste raw material processing with using „Scorpion” machines”</i></b>
<b>15.10 – 15.30</b>	<b>COFFEE BREAK</b>

**Meeting Area Spices and Herbs Pav. B2 / SESSION – II**

**CHAIRS: Prof. Dr. Hüsnü Can Başer & Prof. Dr. Joachim Müller**

**15.30 – 16.00**

**Invited Lecturer: PROF. DR. PATRÍCIA RIJO**

CBIOS – Research Center for Biosciences & Health Technologies,  
Universidade Lusófona de Humanidades e Tecnologias, Campo Grande,  
Lisboa, **PORTUGAL**

**“*Plectranthus*: Exploring Medicinal Properties”**

**16.00 – 16.30**

**Invited Lecturer: PROF. DR. ÁKOS MÁTHÉ**

University of West Hungary Faculty of Agriculture and Food Industry  
Vár 2, 9200 Mosonmagyaróvár, **HUNGARY**

**“Medicinal and Aromatic Plants Bridging Past to the Future”**

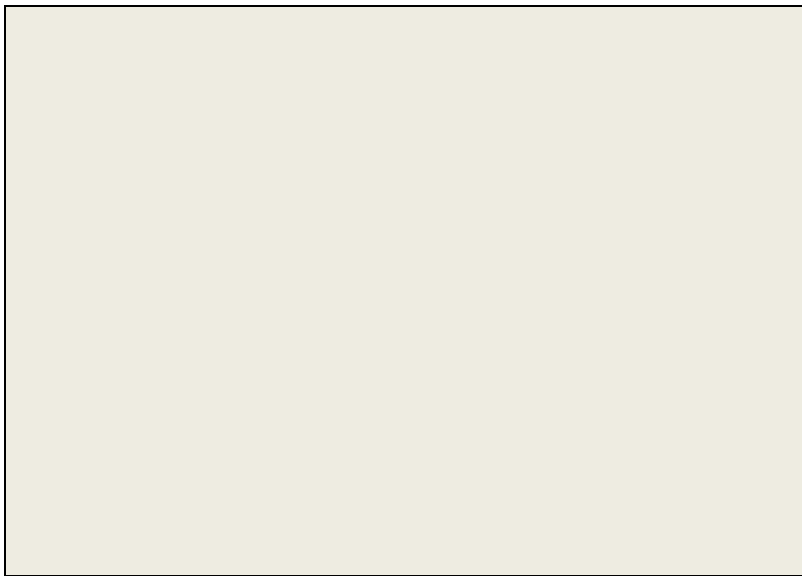
**16.30 – 17.00**

**Invited Lecturer: PROF. DR. IREM TATLI CANKAYA**

Hacettepe University, Pharmacy Faculty, Pharmaceutical Botany  
Department, Ankara, **TÜRKİYE**

**“Bridging Tradition with Innovation and Unlocking Nature's  
Therapeutic Potential”**

<b>17.00 – 17.30</b>	<b>Invited Lecturer: PROF.DR. SHI LEI</b> State Key Laboratory of Plant Diversity and Specialty Crops, Institute of Botany, Chinese Academy of Sciences, <b>CHINA</b>  “ <b>Studies on Oregano Molecular Breeding, Synthesis Mechanism of Carvacrol and Antibacterial Function</b> ”
<b>17.30 – 17.40</b>	<b><i>Marvil Engineering</i></b> <b><i>Mercadini Massimo</i></b>  <b><i>Eco-friendly fumigation</i></b>
<b>17.00 – 19.00</b>	<b>MACFRUT WELCOME COTAIL</b>



**7 MAY 2025, WEDNESDAY**

**Meeting Area Spices and Herbs Pav. B2 / SESSION – III**

**CHAIRS:** Andrea Primavera & Irem Tatli Cankaya

10.30 – 12.30

**ROUND TABLE**

**“The Herbal Supply Chain: A Quality Assurance for  
Natural Products Market”**

*MESMAP-11 Participation with free of charge*

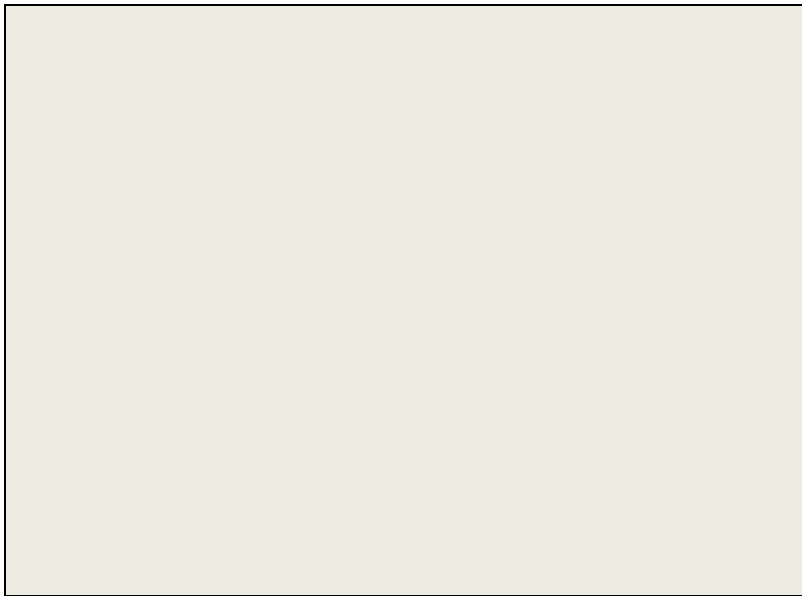
**13.00 – 13.30**

**LUNCH BREAK**

**Sala Camelia Pav. B6 / SESSION – IV**

<b>10.00 – 12.30</b>	<b>CHAIRS: Ina Aneva &amp; Meryem Bozkurt</b>
<b>10.00 – 10.30</b>	<b>Invited Lecturer: PROF. DR. İPEK SÜNTAR</b> Gazi University, Faculty of Pharmacy, Department of Pharmacognosy, Ankara, <b>TURKIYE</b> <b>“Medicinal plants as promising agents for tissue repair and regeneration”</b>
<b>OP-1</b>	Garlic extracts nanoliposomes as an enhancer of the bioavailability of aba and thiamine content, and as an antifungal agent against <i>Fusarium oxysporum</i> f.sp. Pisi infecting <i>Pisum sativum</i> <b>Eszter Virág, Barbara Kutasy</b>
<b>OP-2</b>	The determination of genetic relationships and diversity among <i>Muscari neglectum</i> and <i>Muscari armeniacum</i> populations by using issr marker <b>Meryem Bozkurt, Tuna Uysal</b>
<b>OP-3</b>	Bioactive compounds in yerba mate: A new perspective on immune cell modulation <b>Kathrin Moser, Elisa Talker, Christina Trojacher, Nestor Zárate, Tanja Gerlza, Andreas Kung</b>
<b>OP-4</b>	Karyomorphological and palynological characteristics of three endemic <i>Hyacinthella</i> (asparagaceae) taxa in Turkiye <b>Kuddisi Ertuğrul, Murat Coşkuner, Meryem Bozkurt, Tuna Uysal</b>
<b>OP-5</b>	Genetically modified medicinal and aromatic plants <b>Merve Göre, Ayşe Betül Avcı</b>

OP-6	Assessment of the neuroprotective effects of the flavonoid NRGN on hippocampal dysfunction induced by postnatal maternal deprivation <b><u>Duaa Aqaili, Mohamed Bendary, Safa Almaghrabi, Siddig Abdelwahab, Sivakumar Moni, Manal Alhassan, Marwa Qadri</u></b>
OP-7	Investigation of genes and key factors associated with drought resistance in medicinal plants: Insights into genetic and environmental interaction, <b><u>Elmira Ziya Motalebipour, Akbar Pirestani</u></b>
OP-8	A comprehensively comparison of two closely related <i>Muscari</i> species and their conservation status <b><u>Tuna Uysal, Meryem Bozkurt, Ahmet Aksoy, Ela Nur Şimşek Sezer, Kuddisi Ertuğrul</u></b>
OP-9	Effect of basil oil extract on a target group of house mosquitoes culex pipiens <b><u>Gacem Habiba, Halfaoui Zahra Noujoum, Khafalla Imene, Rizi Hadia, Habbachi Wafa</u></b>
OP-10	Biological activity assessment of different parts of <i>Hedysarum anatolicum</i> , <b><u>Tuna Uysal, Atif Abdulazeez Khudhur Al Dabbagh, Ela Nur Şimşek Sezer, Mervem Bozkurt</u></b>
OP-11	Is advanced nutravigilance a missing piece in the EU's botanical supplement safety puzzle?, <b><u>Archana Singh</u></b>
OP-12	Chemical profiling and bioactivity assessment of <i>Satureja</i> spp.: Insights from spme and <i>in vitro</i> antimicrobial assay <b><u>Erdoğan Güneş, Ela Nur Şimşek Sezer, Tuna Uysal</u></b>
<b>13.00 – 13.30</b>	<b>LUNCH BREAK</b>





**Meeting Area Spices and Herbs Pav. B2 / SESSION – V**

**CHAIRS:** Riadh Ksouri & Tuna Uysal

**13.30 – 14.00**

**Invited Lecturer: PROF. DR. HAB. AGNIESZKA SZOPA**

Department of Medicinal Plant and Mushroom Biotechnology  
Jagiellonian University Medical College, Kraków, **POLAND**

**“Stimulation of biosynthesis of health-promoting bioactive compounds in the *in vitro* culture model of *Brassica oleracea* L. var. *acephala* (Green kale)”**

**14.00 – 14.30**

**Invited Lecturer: PROF.DR. JITBANJONG TANGPONG**

Biomedical Sciences, School of Allied Health Sciences, Walailak University, Walailak, **THAILAND**

**“Current Trends in Medicinal Plant and Health Product Research in Southern Thailand**

**14.30 – 14.40**

*evoluzioneserviz*

**Paolo Guerra - Lorenzo Moschini**

***"Preventing infestations and preserving products:  
Oxyless, the modified protective atmosphere treatment"***

**Sala Camelia Pav. B6 / SESSION – VI**

**CHAIRS:** Kuddusi Ertugrul & Francesco Epifano

**13.30 – 14.00**

**Invited Lecturer: PROF. DR. ANNALISA SANTUCCI**  
Director Of the Department of Biotechnology Chemistry & Pharmacy -  
\*Department of Excellence 2018-2022\*Università Degli Studi Di Siena,  
**ITALY**

**“Bioactive Compounds from *Castanea sativa* Chestnut Burrs”**

**14.00 – 14.30**

**Invited Lecturer: PROF.DR. FRANCESCO EPIFANO**  
Department of Pharmacy, University “Gabriele d’Annunzio” of Chieti-  
Pescara, Chieti, **ITALY**

**"Lamellar Solids as Novel Means for Food Processing"**

**Meeting Area Spices and Herbs Pav. B2 / SESSION – VII**

<b>14.40 – 15.30</b>	<b>CHAIRS:</b> Agnieszka Szopa & Fatma Pinar Kafa
<b>OP-13</b>	Exploring the role plant extracts in animal models of intra-abdominal adhesions: Effects of tannins <b><u>Gizem Deynez</u>, <u>Mürşide Ayşe Demirel</u>, <u>Saadet Özen Akarca Dizakar</u>, <u>Ayşe Kuruüzüm Uz</u>, <u>Ece Salihoğlu</u>, <u>Vahap Murat Kutluay</u>, <u>Osman Tugay</u>, <u>İpek Süntar</u></b>
<b>OP-14</b>	Potential aromatic plant in Türkiye: <i>Iris germanica</i> L. <b><u>Filiz Kılıç</u>, <u>Ayşe Betül Avcı</u></b>
<b>OP-15</b>	Regional variation of casticin levels in <i>Vitex agnus-castus</i> L. populations collected from west coast of Anatolia, Türkiye <b><u>İlknur Kösoğlu</u>, <u>Hicran Akaalp</u>, <u>Murat Kartal</u>, <u>Ünal Karık</u></b>
<b>OP-16</b>	Bioactive phytochemicals, fatty acids and sensory evaluation of melon fruit seed oil <b><u>Sana Mallek-Ayadi</u>, <u>Neila Bahloul</u></b>
<b>OP-17</b>	Effects of in vitro human digestion simulation on phenolic profile and antioxidant properties of <i>Galega officinalis</i> L. <b><u>Nehir Kavi</u>, <u>Tuğba Buse Şentürk</u>, <u>Timur Hakan Barak</u>, <u>Engin Celep</u></b>
<b>15.30 – 16.00</b>	<b>COFFEE BREAK</b>

**Sala Camelia Pav. B6 / SESSION – VIII**

<b>14.40 – 15.30</b>	<b>CHAIRS:</b> Alban Ibraliu & Riccardo Amorati
<b>OP-18</b>	Antifungal activity and chemical composition of <i>Thymbra spicata</i> extracts against sclerotinia <i>Sclerotiorum</i> and <i>Macrophomina</i> sp.: A comparative study <b><u>Nadire Pelin Bahadırli, Tuba Genç Kesimci</u></b>
<b>OP-19</b>	GC-MS identification and TLC isolation of <i>Peganum harmala</i> shoots terpenoids with anti-inflammatory activities through modulation of pro-inflammatory cytokines <b><u>Riadh Ksouri, Amani Kochbati, Dhouha Krichène, Majdi Hammami, Aziz Hichami, Amira Sayed Khan, Naim Akhtar Khan</u></b>
<b>OP-20</b>	Utilization of morphological and chemotypic variation in plant breeding <b><u>Ünal Karik, Hicran Akaalp, Ilknur Kosoglu, Orçun Yılmaz, Deniz Kotiloğlu, Orçun Çınar</u></b>
<b>OP-21</b>	HEMP—A nature's gift for human well-being, <b><u>Rahmatullah Qureshi</u></b>
<b>OP-22</b>	Research of some characteristics of the cerinthe minor plant <b><u>Murat Tuncturk, Ruveyde Tuncturk</u></b>
<b>OP-23</b>	Essential oil yields of some <i>Origanum</i> species distributed in the flora of Türkiye <b><u>Hicran Akaalp, Ünal Karik, Ilknur Kosoğlu, Orçun Yılmaz, Deniz Kotiloğlu, Orçun Çınar, Emine Bayram</u></b>
<b>15.30 – 16.00</b>	<b>COFFEE BREAK</b>

**Meeting Area Spices and Herbs Pav. B2 / SESSION – IX**

**CHAIRS:** Randolph Arroo & Yavuz Bülent Köse

**16.00 – 16.30**

**Invited Lecturer: PROF. DR. ALBAN IBRALIU**

Agricultural University of Tirana, Department of Crop Production,  
Tirana, **ALBANIA**

**"Bringing Value to MAPs: Biodiversity, Case Studies, and Future Challenges"**

**16.30 – 17.00**

**Invited Lecturer: PROF. DR. RICCARDO AMORATI**

Bologna University, Department of Chemistry "Giacomo Ciamician",  
Academic discipline: CHEM-05/A Organic Chemistry, **ITALY**

**"Essential Oils as Antioxidants: Challenges and Opportunities"**

**17.00 – 17.10**

***Research Institute for Medicinal Plants and Herbs, Ltd. Hungary***

***Dr. Eszter Virág & Barbara Kutasy***

***Presentation of the Research Institute for Medicinal Plants and Herbs,  
Ltd: Research and Development and Products***

**17.10 – 18.00**

**ORAL SESSION**

**17.10 – 18.00**

**POSTER SESSION**

**Sala Camelia Pav. B6 / SESSION – XI**

**CHAIRS:** Jitbanjong Tangpong & Riadh Ksouri

**16.00 – 16.30**

**Invited Lecturer: DR. DAVIDE FARUGGIA**  
Department of Agricultural, Food and Forestry Sciences, Università degli Studi di Palermo, **ITALY**

**"Foliar Application of Biostimulants as Sustainable Approach to Improve the Production of Organic Medicinal and Aromatic Plants"**

**16.30 – 17.00**

**17.00 – 17.10**

**ORAL SESSION**

**17.10 – 18.00**

**POSTER SESSION**

**Meeting Area Spices and Herbs Pav. B2 / SESSION – XII**

<b>17.10 – 18.00</b>	<b>CHAIRS: Mùjgan Güney &amp; Hui Li</b>
<b>OP-24</b>	Developmental and environmental factors influencing accumulation of phenolics in wood betony ( <i>Betonica officinalis</i> L.) <b><u>Janina Zaród, Jarosław Przybył, Zenon Węglarz, Katarzyna Bączek</u></b>
<b>OP-25</b>	Insecticidal activity of <i>Artemisia absinthium</i> L. essential oil against <i>Tribolium confusum</i> Du Val. <b><u>Nouria Hellal, Omar Kharoubi, Hassina Khaldoun</u></b>
<b>OP-26</b>	Influence of unsaturation levels on the efficacy of rosemary-derived antioxidants in stabilizing woody edible oils <b><u>Yue Qi, Yeqin Huang, Zongxin Jin, Riccardo Amorati, Hui Li, Lei Shi</u></b>
<b>OP-27</b>	Diversity of common valerian originating from Poland <b><u>Kavana Raj, Zenon Węglarz, Jarosław L. Przybył, Olga Kosakowska, Katarzyna Bączek</u></b>
<b>OP-28</b>	Mass spectrometry-based proteomics reveals molecular mechanisms underlying the anticancer activity of <i>Salvia officinalis</i> essential oil in human prostate cancer <b><u>Sevgi Gezici</u></b>
<b>OP-29</b>	Tea tree oil against dermatophytes and yeasts <b><u>Laffleur Flavia, Ataii Martin, Nagler Magdalena</u></b>

**Sala Camelia Pav. B6 / SESSION – XIII**

**17.10 – 18.00**

**CHAIRS:** Nina Djapic & Akbar Pirestani

**OP-30**

Phytopharmaceutical potential and breeding challenges of sea buckthorn (*Hippophae rhamnoides* L.): A review of an underutilized horticultural resource  
**Müjgan Güney, Muhammet Ali Gündeşli**

**OP-31**

Integrated approaches for the optimization of bioactive *Thymus* products  
**Ina Aneva, Dimiter Ivanov, Denitsa Kancheva, Milena Nikolova, Svetlana Nikolova, Ekaterina Kozuharova, Vladimir Vladimirov, Petar Zhelev**

**OP-32**

Unveiling chemotype-specific antibacterial activity in Cupressaceae essential oils: Integrating machine learning with biological insights  
**Yeqin Huang, Guan Wang, Riccardo Amorati, Lei Shi, Hui Li**

**OP-33**

Carbohydrate encapsulation of fragrances in *Parrotia persica* leaves  
**Nina Djapic**

**OP-34**

Therapeutic potential and bioactive properties of pomegranate peel extract from Isfahan varieties in veterinary medicine  
**Akbar Pirestani, Elmira Ziya Motalebipour**



**8 MAY 2025, THURSDAY****Meeting Area Spices and Herbs Pav. B2 / SESSION – XIV**

<b>10.00 – 12.00</b>	<b>CHAIRS:</b> Laffleur Flavia & Hicran Akaalp
<b>OP-35</b>	Studying wild <i>Thymus</i> sp. (L.) Chemotype diversity across <i>Pistoia mountains</i> : A key for obtaining tailored thyme-derived products with antifungal efficacy <b>Felicia Menicucci, Alfonso Crisci, Waed Tarraf, Costanza Santini, Francesca Ieri, Gabriele Cencetti, Marco Michelozzi, Andrea Ienco, Eleonora Palagano</b>
<b>OP-36</b>	Study of the chemical composition and chemotypes of the essential oils of Thymelaeaceae from Algeria and Tunisia, <b>Bounab Souhila, Hezil Sara</b>
<b>OP-37</b>	Chiral constituents of sea fennel essential oil <b>Ana Vučak, Petra Brzović, Azra Đulović, Ivica Blažević, Ivana Generalić Mekinić, Franko Burčul</b>
<b>OP-38</b>	Morphological, micromorphological, anatomical and palynological studies on <i>Galium peplidifolium</i> Boiss. and endemic <i>Galium penduliflorum</i> Boiss. Species from Turkey <b>Merve Kalas, Ayla Kaya</b>
<b>OP-39</b>	Medicinal and aromatic plants and territorial development models <b>Domenica Ricciardi, Diego De Luca, Maria Assunta D'oronzio</b>
<b>12.00 – 12.30</b>	<b>CLOSING CEREMONY</b>
<b>14.00 – 19.00</b>	<b>TECHNICAL VISIT TO FIPPO (Chargable)</b>

**MESMAP – 11**  
**POSTER PROGRAM**

## POSTER SESSIONS

PP – 1	Antioxidant activity and anti-angiogenic potential of <i>Glycyrrhiza glabra</i> L. hydrogels for topical use <b><u>Julia Semenescu</u>, Ștefana Avram, Larisa Bora, Szilvia Berkó, Daliana Minda, Corina Danciu</b>
PP – 2	Some biological activities and total phenolic contents of three <i>Papaver</i> species from Turkey <b><u>Esengül Özkaymakoğlu</u>, <u>Yavuz Bülent Köse</u>, Bilge Nur Mutlu, Osman Tugay</b>
PP – 3	<i>Rhodiola rosea</i> and its major metabolites reduce inflammation in an induced rheumatoid arthritis mouse model <b><u>Lidia A. Kechidjieva</u>, Kalina Nikolova-Ganeva, Nikolina M. Mihaylova, <u>Andrey S. Marchev</u></b>
PP – 4	Hepatoprotective potential of curcumin against aroclor 1254-induced toxicity in HEPG2 cells <b>Pınar Erkekoğlu, Hülya Tezel Yalçın, <u>Deniz Arca Çakır</u>, Selinay Başak Erdemli Köse</b>
PP – 5	Exploring the multifaceted potential of carob: from traditional uses to modern applications in food, health, and industry <b><u>Katya Carbone</u>, Noemi Giammusso</b>

PP – 6	Phytochemical investigation of <i>Salvia multicaulis</i> Vahl extracts of different polarity <b><u>Serkan Yigitkan</u>, Mehmet Veysi Caglayan, Ismail Yener, Mustafa Abdullah Yilmaz, Ramazan Tunc, Mehmet Ferit Demirel, Mehmet Firat3, Abdulselam Ertas, Ufuk Kolak</b>
PP – 7	Biotechnological potential of <i>Melilotus officinalis</i> shoot cultures for bioactive metabolite production <b>Grzegorz Kos, Łukasz Kulinowski, Paweł Kubica, Adam Kokotkiewicz, Maria Łuczkiwicz, Krystyna Skalicka-Woźniak, <u>Agnieszka Szopa</u></b>
PP – 8	Antioxidant and antimalarial activities of five <i>Artemisia</i> L. species grown in turkiye <b><u>Suheda Rumeysa Osmanlioglu Dag</u>, Zekiye Ceren Arituluk Aydin, Zulfıqar Ali, Shabana I Khan, Ayse Mine Gencler Ozkan, Iffet Irem Tatlı Cankaya</b>
PP – 9	Phytochemical studies, antioxidant potential and inhibition of tyrosinase properties of <i>Lathyrus latifolius</i> L. microshoot cultures and parent plant extracts, <b>Marta Klimek-Szczykutowicz, Katarzyna Kulik-Siarek, Paulina Lechwar, Katarzyna Gawel-Bęben, Karolina Wiśniewska, Renata Piwowarczyk, Ewelina Błońska-Sikora, <u>Małgorzata Wrzosek</u>, Agnieszka Szopa</b>
PP – 10	Endocrine disrupting effects of resveratrol, rosmarinic acid and epigallocatechin gallate on 3T3-L1 cells <b><u>İzem Bilinmiş</u>, Deniz Arca Çakır, Hülya Tezel Yalçın, Funda Nuray Yalçın, Nursen Başaran, Pınar Erkekoğlu</b>

PP – 11	<p><i>Rosmarinus officinalis</i> in Tunisia: Phytochemistry, Antioxidant, and Anti-inflammatory Properties  <b><u>Rim Ben Mansour</u>, Hajer Fekih, Ramla Sahli, Wided Megdiche-Ksouri, Riadh Ksouri</b></p>
PP – 12	<p>Biocosmetology: A Return to Nature  <b><u>Mehdi Belleili, Adel Gouri, Youcef HadeF</u></b></p>
PP – 13	<p>Biodiversity and conservation of medicinal plants along the Bulgarian danube riverbank  <b><u>Ina Aneva, Dimiter Ivanov</u></b></p>
PP – 14	<p>Phytochemical Investigation by LC-MS/MS of <i>Mentha longifolia</i> (L.) L. subsp. <i>typhoides</i> (Briq.) Harley extracts  <b><u>Ismail Yener, Baris Resitoglu, Serkan Yigitkan, Ufuk Kolak, Abdulselem ErtasI</u></b></p>
PP – 15	<p>Biological basis for the cultivation of three economically important <i>Thymus</i> species  <b><u>Elina Yankova-Tsvetkova, Denitsa Kancheva, Ina Aneva</u></b></p>
PP – 16	<p><i>Lavandula stoechas</i> L. : A review on biological activities and traditional uses  <b><u>Deniz Kotiloğlu, Ünal Karik, Ilknur Kösoğlu, Hicran Akaalp, Orçun Yilmaz</u></b></p>
PP – 17	<p><i>Cymbopogon citratus</i> (D.C.) Stapf plant material and <i>in vitro</i> microshoot cultures as rich sources of natural phenolic antioxidants and their potential use in pharmacy and cosmetology  <b><u>Ewelina Błońska-Sikora, Marta Klimek-Szczykutowicz, Małgorzata Wrzosek</u></b></p>

PP – 18	Metabolite profiles of <i>Thymus longedentatus</i> from natural and cultivated areas <b>Milena Nikolova, Denitsa Kancheva, Rumen Denev, Ina Aneva</b>
PP – 19	Metabolite composition of various parts of <i>Cichorium inthybus</i> <b>Milena Nikolova, Anna Gavriloova, Rumen Denev, Genadi Gavriloov</b>
PP – 20	Essential oils in vapour phase: Antimicrobial effects and mechanism of action against pathogenic microorganisms <b>Bilge Nur Mutlu, Arzu Işcan, Seda Hacıoğlu, Gökalp Işcan</b>
PP – 21	Effect of harvest time at different vegetative growth stages on yield and quality of <i>Melissa officinalis</i> : preliminary insights <b>Alessia Castellan, Manuel Pramsöhler, Angelika Ruele, Iliaria Marotti</b>
PP – 22	Effects of elicitor treatments on the metabolism of <i>Melissa officinalis</i> cultivated in a controlled environment <b>Sveva Stradolini, Enrico Toschi, Giovanni Dinelli, Iliaria Marotti</b>
PP – 23	A comparative study of antioxidant activity of <i>Prunus divaricata</i> ledeb. var. <i>divaricata</i> (Rosaceae) fruit extracts <b>Ömer Serkan Genç, Zekiye Ceren Arıtuluk Aydın</b>
PP – 24	Profitability and structure of Italian medicinal and aromatic plant farms <b>Dario Macaluso, Francesco Licciardo, Katya Carbone</b>
PP – 25	Technical evaluation of a modular dryer for medicinal and aromatic plants in practical German conditions <b>Janvier Ntwali, Ziba Barati, Joévin Wiomou Bonzi, Albert Esper, Joachim Müller</b>
PP – 26	Ginkgo ( <i>Ginkgo biloba</i> L.) callus induction from different plant parts <b>Iva Jurčević Šangut, Erna Karalija, Barbara Medvedec, Dunja Šamec</b>

PP – 27	Biological activity studies and essential oil analysis on <i>Thymus cilicicus</i> <b>Fatmanur Tunc, Pervin Soyer, Yavuz Bülent Köse, Mine Kürkçüoğlu</b>
PP – 28	Detection of human H antigen by lectin isolated from seeds of <i>Psophocarpus tetragonolobus</i> , <b>Kiattisak Sakonprakaikit, Nateelak Kooltheat</b>
PP – 29	Biological activities and essential oil composition of <i>Origanum vulgare</i> subsp. <i>viridulum</i> <b>Zevnep Gülcan, Pervin Soyer, Yavuz Bülent Köse, Mine Kürkçüoğlu</b>
PP – 30	Integration of genomic and est-ssr markers for a systematic approach to <i>Helichrysum italicum</i> (Roth) G. Don genetic resources evaluation <b>Petra Gabrovšek, Alenka Baruca Arbeiter, Matjaž Hladnik, Dunja Bandelj</b>
PP – 31	Energy drinks and caffeine: A major challenge for public health <b>Sarra Faci, Mehdi Belleili</b>
PP – 32	Enhanced antioxidant potential of <i>Brassica oleracea</i> L. var. <i>acephala</i> (kale) microshoots through biofortification with metal nanoparticles <b>Eliza Blicharska, Aleksandra Łukaszuk, Małgorzata Tatarczak-Michalewska, Katarzyna Czarnek, Grzegorz Wójcik, Wojciech Białowąs, Michał Dziurka, Agnieszka Szopa</b>
PP – 33	Adaptation and growth development of lavender ( <i>Lavandula angustifolia</i> – <i>sevtapolis</i> ) in Şanlıurfa conditions <b>İslim Koşar, Ömer Emre Balyemez, Ibrahim Halil Cömert, Abdulhabip Özel, Halil Hatipoğlu, Başak Özyılmaz</b>
PP – 34	Thymoquinone values of different black cumin lines <b>Başak Özyılmaz, Rahime Karataş, İslim Koşar</b>

PP – 35	<p>Phytochemical composition and antimicrobial activity of <i>Biscutella laevigata</i> L. microshoot cultures and parent plant extracts</p> <p><b><u>Marta Klimek-Szczykutowicz, Anna Śliwa, Magdalena Anna Malinowska, Ivica Blažević, Azra Đulović, Karolina Wiśniewska, Renata Piwowarczyk, Paulina Paprocka, Ewelina Błońska-Sikora, Małgorzata Wrzosek, Agnieszka Szopa</u></b></p>
PP – 36	<p>Long-chain and rare aromatic glucosinolates in plants of <i>Arabis</i> genus and <i>pseudoturritis turrita</i></p> <p><b><u>Azra Đulović, Josip Tomaš, Gabrijela Ljubić, Franko Burčul, Ivica Blažević</u></b></p>
PP – 37	<p>Glucosinolate profiling in <i>Brassica</i> species: diversity, distribution, and significance</p> <p><b><u>Josip Tomaš, Azra Đulović, Tamara Oroz, Ivica Blažević</u></b></p>
PP – 38	<p>Carbohydrate encapsulation of fragrances in <i>Parrotia persica</i> leaves</p> <p><b><u>Nina Djapic</u></b></p>
PP – 39	<p><i>In vivo</i> evaluation of the anti-inflammatory effect of <i>Syzygium aromaticum</i> essential oil</p> <p><b><u>Mokhtari Zineb, Boukhatem Mohamed Nadjib, Ammi Nassima, Mezguiche Sorraya, Bouraoui Hadjer, Benboutta Sihem, Baha Abdelkarim, Lemmache Samia, Boudour Radia</u></b></p>
PP-40	<p>Evaluation of biological activities of some <i>Citrus</i> sp. essential oils</p> <p><b><u>Gözde Öztürk, Fatih Demirci, K. Hüsnü Can Başer, Betül Demirci</u></b></p>
PP-41	<p>Phytochemical profiling and enzyme inhibitory potential of <i>Limonium lilacinum</i> var. <i>laxiflorum</i>,</p> <p><b><u>Fatma Pinar Turkmenoglu, Begum Nurpelin Saglik Ozkan, Derya Osmaniye</u></b></p>



**MESMAP – 11**  
**ON-LINE PROGRAM**

**08.05.2025**

**10.00-12.30**

	<b>CHAIRS: Kuntal Das &amp; Nadire Pelin Bahadırılı</b>
<b>10.00 – 10.20</b>	<b>Honorary Speaker: PROF. DR. HAKKI ALMA</b> Rector of Iğdir University Department of Industrial Engineering of Forestry, Faculty of Forestry Iğdir, TÜRKİYE  <b>"Innovative Extraction Methods for Medicinal Plants"</b>
<b>10.20 – 10.40</b>	<b>Invited Lecturer: DR. KUNTAL DAS</b> Professor, Mallige College of Pharmacy, #71, Silvepura, Chikkabanavara Post, Bengaluru - INDIA  <b>"In silico and in vitro evaluation of selected rare herbal plants India in combating Alzheimer disease through inhibition of BACE1 enzyme activity and TAU hyper-phosphorylation"</b>

<p><b>10.40 – 11.00</b></p>	<p><b>Invited Lecturer: DR. ANTONIO SPECIALE</b>          Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina, <b>ITALY</b></p> <p><b>"A standardized extract of <i>Opuntia ficus-indica</i> (L.) Mill. and <i>Olea europaea</i> L. protects against indomethacin-induced Caco-2 intestinal epithelial cells injury"</b></p>
<p><b>OOP-1</b></p>	<p>The potential of some wild plants commonly consumed in the Eastern Black Sea region for mixed cultivation in hazelnut orchards  <b>Nazim Şekeroğlu, Faruk Özkutlu, Özlem Ete Aydemir</b></p>
<p><b>OOP-2</b></p>	<p>Protective effects of <i>Salvia officinalis</i> L. Hydrodistillation wastewater in <i>in vitro</i> models of inflammation  <b>Maria Sofia Molonia, Federica Lina Salamone, Edoardo Napoli, Mariateresa Cristani, Manuela D'Arrigo, Santi Trischitta, Antonella Saija, Antonio Speciale, Francesco Cimino</b></p>
<p><b>OOP-3</b></p>	<p>Morphological, micromorphological and karyomorphological features of medicinal <i>Silybum marianum</i> (Asteraceae) in Türkiye  <b>Emrah ŞİRİN</b></p>
<p><b>OOP-4</b></p>	<p>Some bioactive compounds of achillea spp. And their medicinal uses  <b>Orçun Yılmaz, Ünal Karik, İlknur Kösoğlu, Hicran Akaalp, Deniz Kotiloğlu</b></p>

<p><b>OOP-5</b></p>	<p>Green veterinary therapies based on pomegranate (<i>Punica granatum</i>) for the control of gastrointestinal nematodes of sheep to improve animal welfare and health  <b>Fabio Castagna, Roberto Bava, Carmine Lupia, Antonio Bosco, Laura Rinaldi, Giancarlo Statti, Vincenzo Musella</b></p>
<p><b>OOP-6</b></p>	<p>Tarragon (<i>Artemisa dracunculus</i> L.): Chemistry and biological activities  <b>Flavio Polito, Vincenzo De Feo</b></p>
<p><b>OOP-7</b></p>	<p>Phenolic and flavonoid content of some mutant <i>Chrysanthemum varieties</i> in Türkiye  <b>Gulden Haspolat, Orcun Cinar, Unal Karik, Burak Kunter, Yaprak Kantoglu</b></p>
<p><b>OOP-8</b></p>	<p>The efficiency and safty of Bioapifit® wound care ointment in the treatment of wounds  <b>Štefica Findri-Guštek, Višnja Oreščanin, Matea Guštek, Ivana Guštek</b></p>
<p><b>OOP-9</b></p>	<p>Study of the chemical composition and properties of wheat sprouts  <b>Magdalena Ligor, Oliwia Cwalina, Tomasz Ligor</b></p>
<p><b>OOP-10</b></p>	<p>Oral microbiota in inflammatory periodontal diseases and prospects of its correction using substances of plant origin  <b>Marina Kryvtsova, Kostenko Yevhen, Spivak Mykola, Hoblik Yevhen, Sklar Ivan, Kolesnik Oleksandra, Mariana Savenko</b></p>
<p><b>OOP-11</b></p>	<p><i>In silico</i> analysis of safety and efficacy of herbal skin-lightening agents: A toxicological perspective  <b>Onur Kenan Ulutaş, Fatma Sezer Şenol Deniz</b></p>
<p><b>OOP-12</b></p>	<p>Phytochemical screening and biological activities of <i>Mentha spicata</i>  <b>Asma Necib, Aymen Zaafour, Mosbahi Ilhem</b></p>

<p><b>OOP-13</b></p>	<p>Chemical composition of essential oils from some Lamiaceae species growing in Albania  <u>Tea Mastori, Ina Xhangoli, Entela Haloçi, Aurel Nuro, Vilma Papajani</u></p>
<p><b>OOP-14</b></p>	<p>Investigation of antiproliferative and enzyme inhibitory effects of the peels of four potato (<i>Solanum tuberosum</i> L.) genotypes  <u>Zühal Bayrakçeken Güven</u></p>
<p><b>OOP-15</b></p>	<p>Investigation cytotoxicity and wound healing of <i>Achillea filipendulina</i> extracts  <u>Zehra Torun, Gözde Ultav, Emine Şalva</u></p>
<p><b>OOP-16</b></p>	<p>Effects of different extraction methods on total phenolic content and bioactivity in <i>Tribulus terrestris</i> L.  <u>Hikmet Gülben Güç, Tuğba İduğ</u></p>
<p><b>OOP-17</b></p>	<p>Ultrasound-assisted extraction of bioactive compounds from <i>Portulaca oleracea</i>: Exploring natural anti-inflammatory agents and their impact on signalling pathway  <u>Amani Kochbati, Dhouha Krichène, Majdi Hammami, Hédia Manai Djebali, Aziz Hichami, Amira Sayed Khan, Naim Akhtar Khan, Riadh Ksouri</u></p>
<p><b>OOP-18</b></p>	<p>Endoplasmic reticulum stress and redox modulation by coffee silver skin extracts in uva-induced keratinocytes and zebrafish  <u>Vincenzo Vestuto, Maria Rosaria Miranda, Giovanna Aquino, Anissa Zouzaf, Giacomo Pepe, Davide De Biase, Gianluca Matteoli, Pietro Campiglia, Manuela Rodriguez</u></p>

<p><b>OOP-19</b></p>	<p>Lichen extracts disrupt <i>Candida albicans</i> growth and biofilm formation via inhibition of the cAMP/PKA and CEK1 MAPK signaling pathway  <u><b>Esra Sumlu, Merve Aydin, Emine Nedime Korucu, Ali Ozturk, Bugrahan Emsen</b></u></p>
<p><b>OOP-20</b></p>	<p>Phytochemical valorization of two parts of a medicinal plant: Pepper tree  <u><b>Kaoutar Necib, Aicha Bouhafoun, Youcef HadeF</b></u></p>
<p><b>OOP-21</b></p>	<p>Evaluation of combined antibacterial effect of some <i>Citrus</i> species with honey  <u><b>Bouhenni Hasna*, Doukani Koulaa, Mouaz Salimaa</b></u></p>
<p><b>OOP-22</b></p>	<p>Some research on <i>Polygonum orientale</i> L. (<math>\equiv</math><i>Persicaria orientalis</i>; Polygonaceae) plant  <u><b>Ruveyde Tuncturk, Murat Tuncturk</b></u></p>
<p><b>OOP-23</b></p>	<p>A NWFP natural flavor as a solution to prevent ACB (TAB) spoilage of clear beverages  <u><b>Yehoshua Maor</b></u></p>
<p><b>OOP-24</b></p>	<p>Biosynthesis of elemicin and isoelemicin in <i>Daucus carota</i> leaves  <u><b>Xing-Qi Huang, Mosaab Yahyaa, Prasada Rao Kongala, Itay Maoz, Natalia Dudareva, Mwafaq Ibdah</b></u></p>
<p><b>OOP-25</b></p>	<p>Phytochemical activity and design of film-forming spray formulations of <i>Tanacetum parthenium</i> L. Extract  <u><b>Secil Karahusevin, Pelin Pelvanoglu, Nur Tanir, Emine Kahraman, Selin Tufan</b></u></p>

<b>OOP-26</b>	Strategies for increasing secondary metabolite yield in medicinal and aromatic plants <b><u>Özlem Akbaş, R. Refika Akçalı Giachino</u></b>
<b>OOP-27</b>	The role of secondary metabolites in medicinal and aromatic plants <b><u>Özlem Akbaş, R. Refika Akçalı Giachino</u></b>

### ON-LINE POSTERS

<b>OPP-1</b>	Lemon myrtle ( <i>Backhousia citriodora</i> ) — delectable Australian traditional herb rich in health-promoting compounds <b><u>Martin Schneider, Kinya Hotta, Jamie Cox, Melissa Powell, Andrew Menner</u></b>
<b>OPP-2</b>	Exploring the biological activities of <i>Sideritis argyrea</i> P.H.Davis <b><u>Pervin Sover, Fatmanur Tunç, Zeynep Gülcan, Yavuz Bülent Köse</u></b>
<b>OPP-3</b>	A-glucosidase and lipase inhibitory activity of sour cherry fruit <b><u>Tuğba Günbatan</u></b>
<b>OPP-4</b>	Comparative phytochemical analysis of different parts of <i>Arum rupicola</i> var. <i>rupicola</i> Boiss. <b><u>Selim Can Kamalak, Ela Nur Şimşek Sezer</u></b>
<b>OPP-5</b>	Evaluating the effect of <i>Nigella sativa</i> in inflammation: Traditional applications, experimental studies, and clinical perspectives in the gastrointestinal inflammation <b><u>Sakir Boyraz, Sebnem Donmez, Emine Akalın, Ali Yagiz Uresin</u></b>