

PROGRAM BOOK



5MES AP

The Fifth International Mediterranean
Symposium on Medicinal and Aromatic Plants
April 24-26, 2019 / Cappadocia - TURKEY



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**The Fifth International Mediterranean Symposium on
Medicinal and Aromatic Plants**

**MESMAP - 5
PROGRAM BOOK**

April 24th – 26th, 2019

Cappadocia, Turkey

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MESMAP – 5
ORAL PROGRAM

24 APRIL 2019, WEDNESDAY

8.30 – 10.00

REGISTRATION

09.45 – 11.00

OPENING CEREMONY

- **Opening Speeches**

Prof. Dr. Nazım ŞEKEROĞLU

Chair of MESMAP Symposiums

Prof. Dr. Anake KIJJOA

Co-chair of MESMAP-5 Symposium

- **Plaque Presentations**

11.00 – 11.30

Plenary Lecturer: Prof. Dr. Gülaçtı TOPÇU

Faculty of Pharmacy, Bezmialem Vakif University, İstanbul – TURKEY

Title: "Chemical Diversity of Bioactive Diterpenoids of Endemic Anatolian Lamiaceae Plants"

<p>11.30 – 12.00</p>	<p>Plenary Lecturer: Prof. Dr. Mohammad Rais MUSTAFA Department of Pharmacology, Faculty of Medicine, University of Malaya, Kuala Lumpur – Malaysia Title: "Elephant Trunk, Birds Nest, Cat Whiskers and Fatima's Dagger: Can Natural Products from Malaysia Treat Diabetes Mellitus?"</p>
<p style="text-align: center;"> </p>	
<p>12.00 – 12.20</p>	<p>Invited Leturer: Dr. Thomas JAKSCHITZ Senior Scientist and Head of Laboratory, Adsi (Austrian Drug Screening Institute Gmbh), Innsbruck – AUSTRIA Title: "Combination Is the Key – Analytical and Biological Investigations in Phytopharmacy, Phytocosmetics and Phytonutrition"</p>
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<p style="text-align: center;">MESMAP SYMPOSIUM GROUP PHOTO TIME</p>	
<p style="text-align: center;"> </p>	
<p>12.30 – 14.00</p>	<p>LUNCH</p>
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SALON A / SESSION – I

CHAIRPERSONS: Anake Kijjoa & Gülaçtı Topçu

14.00 – 14.20	Invited Lecturer: Prof. Dr. Filiz MERİÇLİ Department Pharmacognosy, Faculty of Pharmacy, Near-East University, Nicosia – TURKISH REPUBLIC OF NORTHERN CYPRUS Title: "Some Investigations on the Medicinal Plants Growing in Northern Cyprus"
14.30 – 15.30	ORAL PRESENTATIONS
OP-1	<u>Marina Spînu, Oana Pop, Mihaela Niculae, Elena Andruța Mureșan, Aurel Vasiu, Adrian Potârniche, Constantin Cerbu, Carmen Dana Șandru, Silvana Popescu, Eموke Pall</u> <i>In Vitro Salvia glutinosa</i> Biological Effects Depend on Extraction Procedure and Cell Type
OP-2	<u>Cornelia Mircea, Denisa Batîr-Marin, andreia Corciovă, Cristina Iancu, Oana Cioanca, Flavia Burlec, Catalina Stan, Silvia Robu, Monica Hăncianu</u> <i>In Vitro</i> Antioxidant Properties of Extracts and Nanoparticles Obtained from <i>Equisetum</i> sp.
OP-3	<u>Susmita Gudulkar, Usha Mukundan</u> Ethno-Botanical Studies of Plants Used by Tribes in Maharashtra for Treatment of Kidney Stones

OP-4	Diana Ivanova, <u>Alexander Tashev</u>, Paraskev Nedialkov, Yana Ilieva, Galina Kalotova, George Angelov, Teodora Atanassova Conifers in the Conquest of Cancer
OP-5	<u>Nazim Sekeroglu</u>, Sevgi Gezici Curcumin, a Polyphenol Derived from <i>Curcuma longa</i> : Clinical Evidence and Molecular Mechanisms in Prevention and Management of Cancer
15.30 – 15.45	COFFEE BREAK
SALON B / SESSION – I	
CHAIRPERSONS: Ilkay Erdoğan Orhan & Monica Hancianu	
14.00 – 14.20	Invited Lecturer: Prof. Dr. Alvaro VILJOEN Department of Pharmaceutical Sciences, Tshwane University of Technology, Pretoria – SOUTH AFRICA Title: "Evidence-Based African Natural Medicines - Exploring the Synergy Between Ancient Wisdom and Modern Science "
14.30 – 15.30	ORAL PRESENTATIONS
OP-6	<u>Ivan Salamon</u>, Anton Bubnov, Marianna Kharabara Blue Essential Oil of Chamomile Variety “Lianka” With the Highest Content of α -Bisabolol and Its Importance to New Pharmaceutical Formulations

<p>OP-7</p>	<p>Zakia Boubechiche, Mounira Ouar-Korichi, Rabah Boukherroub, Alexandre Barras, Patrick Daubias, Nour-Eddine Chihib, Amina Hellal, <u>Charafeddine Jama</u> Chemical Composition and Biological Activities of Essential Oils of Bulbs and Bulbils from <i>Allium sativum</i> L.</p>
<p>OP-8</p>	<p><u>Safiye Emirdağ-Öztürk</u> Semi-Synthesis of Bioactive Gypsogenin Derivatives</p>
<p>OP-9</p>	<p><u>Ciprian Ilașcă, Mihaela Niculae, Elena andruța Mureșan, Aurel VasIU, Eموke Pall, Raluca Seicheli, Constantin Cerbu, Carmen Dana Șandru, Silvana Popescu, Marina Spînu</u> Influence of an Aqueous Mint (<i>Mentha piperita</i>) Extract on Health Status and Immune Response in Young Calves</p>
<p>OP-10</p>	<p><u>Sevgi Gezici</u> Investigation of the Cytotoxic, Anticancer and Apoptotic DNA Fragmentation Properties of <i>Bongardia chrysogonum</i> L. Extracts on Brain Glioma and Lung Carcinoma Cancer Cells</p>
<p>15.30 – 15.45</p>	<p>COFFEE BREAK</p>
<p></p>	

SALON A / SESSION – II**CHAIRPERSONS:** Madalena Maria de Magalhães Pinto & Marina Spînu**15.45 – 16.45 ORAL PRESENTATIONS****OP-11** **Mebarka Bouziane, Naima Hellali, Ferdous Cherifi, Bakir Abanou, Mahfoud Hadj Mahammed**

Compounds From An Aromatic Annual Plant Growing in Arid Zone of Algeria and Screening of Its Antibacterial Activity

OP-12 **Belgin Coşge Şenkal, Tansu Uskutoğlu, Arzu Türker, Hülya Doğan**
Impact of Different Cutting Stages on the Content, Chemical Composition and Antibacterial Activite of Essential Oils from *Salvia officinalis* L.**OP-13** **Hilal Zaid, Sleman Kadan, Najlaa Bassalat, Raghad Albzoor**
Medicinal Plants and Phytochemicals: A Source For GLUT4 Stimulators and Digestive Enzymes Inhibitors**OP-14** **Gülsüm Yaldiz, Mahmut Çamlica, Abdurrahman Başol, Halit Aşkin**
Morphology, Yield and Quality Characterizations of *Nigella sativa* L. and *Nigella damascena* L.**OP-15** **Bushrah Karsou, Rana Samara**
Natural Induced Resistance in Crop Plants by Palestinian Indigenous Plant Extracts Against Pests and Diseases**16.45 – 17.00 COFFEE BREAK**

SALON B / SESSION – II**CHAIRPERSONS:** Mohammed Rais Mustafa & Gülsüm Yıldız

15.45 – 16.45	ORAL PRESENTATIONS
OP-16	<u>Tuba Kuşman, Abdullah Dalar, Ömer Akgül, Gülhan Bora</u> Investigation of Antimicrobial Activity of Some Plants Against <i>E.coli</i> Isolated from Blood Cultures
OP-17	<u>Muhammad Zafar</u> The Role of Medicinal Plants Used in Traditional Medicine for Drug Discovery and Their Conservation in Pakistan
OP-18	<u>Gülsüm Yıldız, Yavuz Bülent Köse, Mine Kürkçüoğlu</u> Essential Oil Composition of <i>Centranthus longiflorus steven</i> subsp. <i>longiflorus</i> from Turkey
OP-19	<u>Carmen Dana Şandru, Silvana Popescu, Mihaela Niculae, Elena andruța Mureşan, Brudaşcă Gheorghe Florinel, Eموke Pall, Adrian Potarniche, Constantin Cerbu, Aurel VasIU, Marina Spînu</u> Influence of Antioxidant Capacity of Plant Extracts on Enhancement of Adaptive Cell-Mediated Response in Herbivores
OP-20	<u>Amruta Kothare, Vinal Pardhi, Prajкта Chivte, Sakhamam Muley, Tejashree Shanbhag</u> Bromelain: A Possible Phytotherapy Towards Breast Cancer
16.45 – 17.00	COFFEE BREAK

SALON A / SESSION – III**CHAIRPERSONS:** Hilal Zaid & Yaowared Chulikhit**17.00 – 18.00 ORAL PRESENTATIONS**

OP-21 Zglinska Klara, Matusiewicz Magdalena, Daniluk Karolina, Balaban Jasmina, Niemiec Tomasz
Chemical Composition, Antioxidant Activity and Effect on Human Fibroblast Visibility of Extracts from Oleaster (*Elaeagnus umbellate*) Fruit Collected in Poland

OP-22 Fatma Günes
Wild Plants Used as Food in Edirne Central District and Villages

OP-23 Naima Hellali, Mebarka Bouziane, Mahfoud Hadj Mohammed
Correlation between Chemical Composition and Antioxidant Activity of Essential Oils From Six Aromatic Medicinal Plants Growing in Illizi and Ghardaïa (Southern Algeria)

OP-24 Oya Ustuner, Ceren Anlas, Tulay Bakirel, Fulya Ustun Alkan, Belgi Diren Sigirci, Seyyal Ak, Huseyin Askin Akpulat
Thymus sipyleus Boiss. Subsp. *rosulans* (Borbás) Jalas Extracts as Alternative therapeutic Agents for the Treatment of Skin Injury

OP-25 Reem Hassan Ahmed, El khatim Hassan Abdelgadir
Acute and Dermal Toxicity Studies of *Adansonia digitata* L. Seeds Oil on Wistar Albino Rats

18.00 – 19.00 POSTER SESSION – I (1-30)

SALON B / SESSION – III**CHAIRPERSONS:** Tejjashree Shanbhag & Carmen Dana Şandru**17.00 – 18.00 ORAL PRESENTATIONS**

- OP-26** **Taner Özcan**
Determination of Hybridization in *Nepeta X Tmolea* Boiss. Using Different Approaches
- OP-27** **Oufkir Sara, Ait Laaradia Mehdi, Laadrawi Jawad, Aboufatima Rachida, Chait Abederrahmane, Sokar Zahra**
Anti-Fertility and Abortifacient Effect of Aqueous Sprouted Seeds Extract of *Trigonella foenum graecum* (L.) in Mice
- OP-28** **Ceylan Dönmez, Ufuk Koca Çalışkan, Petek Korkusuz, Özge Boyacıoğlu**
From A Traditional Remedy to Modern Therapy; *In Vivo* Antihemorrhoidal Study of *Malva sylvestris* L.
- OP-29** **Nazim Sekeroglu, Sevgi Gezici, Ceren Serin Tanrıöver, Fatih Yayla**
Anticancer, Antiproliferative and Cellular DNA Fragmentation Activities of *Astragalus elongatus* subsp. *nucleiferus* on Human Cancer Cells
- OP-30** **Sevgi Gezici, Murat Tuncturk, Lütfi Nohutcu, Nazim Sekeroglu**
Assessment of Cholinesterase and Tyrosinase Enzymes Inhibitory, Phytochemical Composition and Antioxidant Properties of *Mentha spicata* L.

18.00 – 19.00**POSTER SESSION – I (1-30)**

25 APRIL 2019, THURSDAY

SALON A / SESSION – IV

CHAIRPERSONS: Filiz Meriçli & Vikneswaran Murugaiyah

09.00 – 09.20

Invited Lecturer: Prof. Dr. Monica HANCIANU

Department of Pharmacognosy-Phytotherapy, Faculty of Pharmacy,
University of Medicine and Pharmacy, Iasi – ROMANIA

Title: "Neuroprotective Behavior for A Healthy Brain"

09.30 – 10.30

ORAL PRESENTATIONS

OP-31

Zubeyir Elmazoglu, Edgar Rangel-López, Abel Santamaria, Cimen Karasu

Neuroprotective Effects of Active Phytoconstituents Against A β 1-42 - Mediated Injury in High Glucose-Induced Primary Hippocampal Neurotoxicity: *In Vitro* Hyperglycemic Alzheimer's Disease Model

OP-32

Marina Spînu, Laura andreea Rusu, Mihaela Niculae, Elena Andruța Mureșan, Jovan Bojkovski, Aurel VasIU, Eموke Pall, Diana Ioana Olah, Constantin Cerbu, Carmen Dana Șandru

Sea Buckthorn Treatment Influence on the Multi-Effector Immune Response in Swine Exposed to Potentially Pathogenic Microbiome

OP-33	Ayşe Esra Karadağ, Aysegül Çaşkurlu, Fatma Tosun <i>In Vitro</i> Anti- <i>Helicobacter pylori</i> and Antimycobacterial Activity Evaluation of Plants from Turkey
OP-34	Argentieri Maria Pia, D'Addabbo Trifone, Avato Pinarosa Nematicidal Activity of Essential Oils from Lamiaceae
OP-35	N. Gökçe Ulusoy, Safiye Emirdağ-Öztürk New Bioactive Gypsogenin Compounds
10.30 – 10.45	COFFEE BREAK
SALON B / SESSION – IV	
CHAIRPERSONS: Charafeddine Jama & Koula Doukani	
09.00 – 09.20	Invited Lecturer: Prof. Dr. Nouredine DJEBLI Faculty of SNV, Pharmacognosy and Api-phytotherapy Laboratory, Mostaganem University, Mostaganem – ALGERIA Title: "Can we Protect our Brain from Neurotoxicity by Natural Products"

09.30 – 10.30	ORAL PRESENTATIONS
OP-36	<u>Elsadig A. Eltayeb</u> Levels (Production) and Biological Activity of Solamargine and Solasonine from <i>Solanum incanum</i>
OP-37	<u>Emrah Şirin</u> Karyomorphology of Some Medicinal <i>Lepidium</i> Species (Brassicaceae) from Turkey
OP-38	<u>Bouamama H., Nouaa S., Benharref A.</u> Chemical and Biological Valorisation of <i>Cedrus atlantica</i>
OP-39	<u>Antoaneta Trendafilova, Suleyman Yur, Fatih Goger, Miroslav Rangelov, Milka Todorova, Ina Aneva, Temel Ozek, Gulmira Ozek</u> Phytochemical Study and Evaluation of Inhibitory Potential of <i>Angelica pancicii</i> Vandas. Essential Oils and Hexane Extracts Against Enzymes Involved in Alzheimer Disease and Type II Diabetes
OP-40	<u>Muhammad Ajmal Shah, Wantana Reanmongkol, Pharkphoom Panichayupakaranant</u> <i>In vivo</i> Antidiabetic Activity of Rhinacanthins Enriched Extract Prepared by Microwave assisted Green Extraction Process
10.30 – 10.45	COFFEE BREAK

SALON A / SESSION – V

CHAIRPERSONS: Archana Thite & Muhammad Ajmal Shah

10.45 – 11.45 **ORAL PRESENTATIONS**

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| OP-41 | <u>Sultan Pekacar, Hasya Nazlı Ekin, Nilüfer Orhan, Burçin Özüpek, Didem Deliorman Orhan</u>
Enzyme Inhibitory, Antioxidant Activities and Phytochemical Studies on <i>Viscum album</i> Samples Collected from Different Host Plants |
| OP-42 | <u>Enkelejda Goci, Entela Haloci, Jona Berberi</u>
Encapsulation of <i>Capsicum frutescens</i> Extracts With β – Cyclodextrin and 2-Hydroxypropyl – β – Cyclodextrin |
| OP-43 | <u>Tansu Uskutoğlu, Belgin Coşge Şenkal, Cüneyt Cesur, Hülya Doğan</u>
Investigation of the Antimicrobial Activity of Extracts Obtained from Tesbi (<i>Styrax officinalis</i> L.) |
| OP-44 | <u>Biljana Bauer</u>
Ethnomedicinal Study of <i>Cornus mas</i> L. from the Folk and Traditional Medicine of Republic of Macedonia |
| OP-45 | <u>Saloni Jain, Tabassum Khan</u>
Cytotoxic Flavonoids from the Ethyl Acetate Extract of the Aerial Roots of <i>Ficus benghalensis</i> Linn |

SALON B / SESSION – V**CHAIRPERSONS:** Ivan Salamon & Svetlana Kulevanova

10.45 – 11.45	ORAL PRESENTATIONS
OP-46	<u>Sagarika Damle, Archana Thite</u> Seasonal Edible Plants of Maharashtra (India) - A Potential Medicinal Treasury
OP-47	<u>Eda Sensu, Kadriye Nur Kasapoğlu, Mine Gültekin-Özgülven, Evren Demircan, Sevcan Erşan, Ayla Arslaner, Beraat Özçelik</u> Berberis Plants With Orange, Red and Purple Fruits: Antioxidant and Anti-Hypertensive Activities
OP-48	<u>Ezgi Şenol, Beraat Özçelik</u> Evaluation of the Reliability of Plants Usage in Foods: A Review
OP-49	<u>Büşra Karpuz, Fatma Ayaz, Esra Emerce, Bilge Şener, İhsan Çalış, Hayri Duman, M. Iqbal Choudhary, Nurgün Küçükboyacı</u> <i>In Vitro</i> Cytotoxicity and <i>in Silico</i> Mutagenicity Assessments of the Isolated Compounds from <i>Sideritis germanicopolitana</i> Bornm. subsp. <i>germanicopolitana</i>
OP-50	<u>Fatma Ayaz, Mert İlhan, Esra Küpeli Akkol, Nezhun Gören, İhsan Çalış, Muhammad Iqbal Choudhary, Nurgün Küçükboyacı</u> Evaluation of the <i>In Vitro</i> Wound Healing Activity of Isolated Constituents from <i>Chrysophthalmum montanum</i> (Dc.) Boiss.
11.45 – 12.00	COFFEE BREAK

SALON A / SESSION – VI**CHAIRPERSONS:** Noureddine Djebli & Janar Jenis**12.00 – 13.00** **ORAL PRESENTATIONS**

- | | |
|--------------|--|
| OP-51 | <u>Bouhenni Hasna, Doukani Koula, Tabak Souhila</u>
Anti-Helicobacter Pylori Activity of Two Medicinal Plants; Fenugreek (<i>Trigonella foenum-graecum</i> L.) and Cumin (<i>Cuminum cyminum</i> L.) |
| OP-52 | <u>Muhammad Zafar, Moona Nazish</u>
Ethnomedicinal and Aromatic Salt Tolerant Plants Use Value in Khewra Salt Mine, Punjab, Pakistan |
| OP-53 | <u>Zine El Abidine Ababsa, Wwahiba Kara Ali, Kamel Medjroubi, Salah Akkal, Nacira Abidli</u>
Chemical Characterization and Biological Study of the Species <i>Senecio cineraria</i> |
| OP-54 | <u>Djamila Benouchenne, Inès Bellil, Douadi Khelifi</u>
Phenolic Contents and Anti-Oxidant Activities of <i>Abies numidica</i> Leaves Extracts |
| OP-55 | <u>Koula Doukani, Brahim Kamel Louacini</u>
Physicochemical and Phytochemical Characterization and Antibacterial Activity of Spineless Cactus (<i>Opuntia ficus indica</i> F. <i>inermis</i>) Cladodes in the Region of Tiaret (Algeria) |

13.00 – 14.00 **LUNCH**

SALON B/ SESSION – VI

CHAIRPERSONS: Lamia Hamrouni & Ufuk Koca Çalışkan

12.00 – 13.00 | **ORAL PRESENTATIONS**

OP-56 | **Asih Triastuti, Oktavia Indrati, Farida Hayati**
Development of Microemulsion Containing *Plantago major* Extracts:
Formulation and Evaluation of Topical Anti-Inflammatory Activities

OP-57 | **Albert Katchborian Neto, Wanderleya Toledo Dos Santos, Ana Cláudia Chagas De Paula, Michael Murgu, Marisi Gomes Soares, Daniela Aparecida Chagas-Paula**
Untarget Metabolomics Analyses of the Neuroprotective Potential of
Ayahuasca on Human Neuroblastoma Cells

OP-58 | **Iram Nizam, M.Mushfiq**
Antioxidant Activity of the Fruit Extracts of *Withania somnifera* and
Solanum nigrum

OP-59 | **Mehtap Kılıç, Erdal Kaya, Bilge Şener**
Evaluation of Some Biological Activities of the Bulbs of *Corydalis
solida* (L.) Clairv. ssp. *incisa* Liéden Species Growing in Turkey

OP-60 | **Ceren Anlas**
Medicinal Plants Used in the Treatment of Skin Disorders in Turkish
Veterinary Medicine

13.00 – 14.00 | **LUNCH**

SALON A / SESSION – VII**CHAIRPERSONS:** Satish Sardana & Tatjana Kadifkova Panovska

14.00 – 14.20	Invited Lecturer: Prof. Dr. Ivan SALAMON Excellence Centre of Animal and Human Ecology, University of Presov; Department of Ecology, the Faculty of Humanities and Natural Sciences, University of Presov – SLOVAK REPUBLIC Title: "Effect of Raw Spirit in "Borovička" Beverage on the Quality of the Product"
14.30 – 15.30	ORAL PRESENTATIONS
OP-61	<u>Faruk Karahan, Cumhur Avşar</u> Leaves Antimicrobial Activity of Some <i>Glycyrrhiza</i> L. Species
OP-62	<u>Ufuk Koca-Caliskan, Elif Burcu Bali, Demet Erdönmez, Müjgan Özfenerci</u> Quorum Sensing Inhibition Activity of Volatile Oils Applied in Aromatherapy
OP-63	<u>Pamela Jha, Renitta Jobby, Sonit Kumari, Rasika Ghodmare, Nitin Desai, Ahmad Ali</u> Antioxidant, Antiglycation and Antidiabetic Potential of a Natural Sweetener, <i>Stevia rebaudiana</i>
OP-64	<u>Grozi Delchev</u> Changes in the Weed Species in Fields of Milk Thistle, Coriander, Chickpea and Forage Pea Which Are Sown on Damaged By Frost Areas of Winter Oilseed Canola
OP-65	<u>Nihal Karakaş, Mehmet Evren Okur, Ayşe Esra Karadağ, Şükran Kültür, Betül Demirci</u> Investigation of Volatile Components and Various <i>in Vitro</i> Biological Activities of <i>Tilia tomentosa</i> (Silver Linden) Moench Flowers
15.30 – 15.45	COFFEE BREAK

SALON B / SESSION – VII**CHAIRPERSONS:** Biljana Bauer & Usha Mukundan

14.00 – 14.20	Invited Lecturer: Prof. Dr. Zahia KABOUCHE Département de chimie, Laboratoire d'Obtention de Substances Thérapeutiques (LOST), Université frères Mentouri-Constantine, Constantine – ALGERIA Title: "Biological Potential of Compounds Isolated from Algerian Plants"
14.30 – 15.30	ORAL PRESENTATIONS
OP-66	<u>Ahmad Ali, Additiya Paramanya</u> Antidiabetic and Antiglycating Properties of <i>Spirulina platensis</i>
OP-67	<u>Aizhamal Baiseitova, Zhamilya Abilova, Janar Jenis</u> Phytochemical Profiles and Biological Activities of Endemic Medicinal Plants from Kazakhstan
OP-68	<u>Tuğba Günbatan, Hasya Nazlı Ekin, Burçin Özüpek, Sultan Pekacar, İlhan Gürbüz, Didem Deliorman Orhan</u> Investigation of the Effect of Seven Plant Species on Enzymes That associated With Diabetes and Obesity
OP-69	<u>Gülsüm Yaldiz, Mahmut Çamlica</u> The Effects of Nitrogen and Farm Manure Applications on Essential Oil Content of Dill (<i>Anethum graveolens</i> L.)
OP-70	<u>Archana Thite, Sagarika Damle</u> Elemental Analysis of Leafy Vegetables as Nutritional & Medicinal Benefactors
15.30 – 15.45	COFFEE BREAK

SALON A / SESSION – VIII**CHAIRPERSONS:** Alexander Tashev & Asih Triastuti**15.45 – 16.45 ORAL PRESENTATIONS**

OP-71 **Rüveyde Tunçtürk, Lütfi Nohutçu, Ünal Karik, Murat Tunçtürk**
Chemical Analysis of Wild Plant *Inula helenium* subsp. *pseudohelenium*
Grierson Growing in Van Lake Around

OP-72 **Vikneswaran Murugaiyah, Ning Tiang, Zurina Hassan**
Neuroprotective and Cognitive Enhancement Potentials of Xanthone-
Enriched Fraction of *Garcinia mangostana* and A-Mangostin

OP-73 **Ataman Bilge Sari**
Medicinal Plants as Immunostimulants in Fish Farming

OP-74 **Ahmet Yenikalayci, Kemal Gül, Mahmut Güneş**
Studies on Medicinal and Aromatic Plants under the Farmers Conditions
in the Province of Kayseri

OP-75 **Aurel Vasîu, Mihaela Niculae, Elena Andruța Mureșan, Brudașcă
Gheorghe Florinel, Eموke Pall, Constantin Cerbu, Marina Spînu,
Silyana Popescu, Carmen Dana Șandru**
Solvent Depending Immunological Activity of Nettle Plant Extracts in
Sheep with Contagious Ecthyma

16.45 – 17.00 COFFEE BREAK**18.00 – 19.00 POSTER SESSION – II (31-60)**

26 APRIL 2019, FRIDAY

SALON A / SESSION – IX

CHAIRPERSONS: Erden Banoğlu & Priya Sundarrajan

09.00 – 09.20

Invited Lecturer: Prof. Dr. Ufuk KOCA ÇALIŞKAN

Department Pharmacognosy, Faculty of Pharmacy, Gazi University,
Ankara – TURKEY

**Title: "Synthesis of Plant Based Hybrid Nanoflowers and
Exploration in Novel Drug Discovery"**

09.30 – 10.30

ORAL PRESENTATIONS

OP-76

**Kazunori Shimagaki, Ryoko Koga, Haruna Fujino, Halil Ibrahim
Ciftci, Minami Yamamoto, Hiroshi Tateishi, Masami Otsuka,
Yoshihiro Yamaguchi, Mikako Fujita**

HIV-2 VPX/VPR Regulate their Stability Using Two Motifs

OP-77

**Demush Bajraktari, Biljana Bauer, Aneta Dimitrovska, Zoran
Kavrakovski, Lulzimzeneli**

Analysis of Correlation Between Heavy and Essential Metals in *Salix
alba* L. (Fam. Salicaceae) in Highly Polluted Area in Kosovo

OP-78	<u>Priya Sundarrajan, Sangeetha Shetty</u> Synthesis and Characterization of Silver Nanoparticles Using Various Plant Extracts and their Various Environmental Applications
OP-79	Lalita Piarasd, Panomkorn Kwakhong, Rachadaporn Benchawattananon, <u>Kanyarat Holasut</u> Microwave Hydro-Diffusion and Gravity of Essential Oil from <i>Zingiber officinale</i> Rosc.
OP-80	<u>Zehra Aydin Bek, Zubeyir Elmazoglu, Berna Goker, Berivan Bitik, Cem Nuri Aktekin, Cimen Karasu</u> Therapeutic Potential of Olive Leaf Polyphenols (ZeyEX®) in Human Osteoarthritic Chondrocytes <i>in Vitro</i>
10.30 – 10.45	COFFEE BREAK
SALON B / SESSION – VIII	
CHAIRPERSONS: Antoaneta Trendafilova & Chandrashekhar D. Upasani	
09.00 – 09.20	Invited Lecturer: Dr. Lamia HAMROUNI National Research Institute of Rural Engineering, Water and Forestry (INRGREF), Institution of Agricultural Research and Higher Education (IRESA) University of Carthage – TUNISIA Title: "Propagation, Improvement, Preservation and Enhancement of Forest Species in Tunisia"

09.30 – 10.30	ORAL PRESENTATIONS
OP-81	<u>Nuttinee Teerakulkittipong</u>, Yanisa Chanthophat, Papawarin Hanga, Phatcharat Lueangworachartkul, Suthabodee Muongmee, Monsiri Chetkhtkran, Suchada Sukontanon Efficacy and Safety Study of the New Formulation of Herbal Coffee on Weight Control
OP-82	<u>Mihaela Niculae</u>, Daniela Hanganu, Iliora Oniga, Daniela Benedec, Radu Giupana, Carmen Dana Sandru, Marina Spinu Phytochemical Profile and Antimicrobial Potential of Extracts Obtained from <i>Thymus marschallianus</i> Willd
OP-83	<u>Tuna Uysal</u>, Ela Nur Şimşek Sezer, Meryem Bozkurt Headspace Solid Phase Microextraction (Hs-Spme) Analysis of <i>Sideritis ozturkii</i> Aytac & Aksoy
OP-84	<u>Nabila Slougui</u>, Ahlem Tlili, Hadjer Bentayeb, Mahfoud Hadj Mahammed Antibacterial Activity and Composition of Essential Oils of Leaves and Basil Flowers of Three Different Growing Seasons Under Arid Climate
OP-85	<u>S. Ayşe Celik</u>, İrem Ayran, Sefa Akbulut, Rabia Serpil Günhan, Asuman Kan, Yüksel Kan The Essential Oil Yield and Compositions of Tarragon (<i>Artemisia dracuncululus</i> L.) Cultivated in Bayburt
10.30 – 10.45	COFFEE BREAK

SALON A / SESSION – X

CHAIRPERSONS: Grozi Delchev & Tabassum Khan

10.45 – 11.45 | ORAL PRESENTATIONS

OP-86 | **Rachadaporn Benchawattananon, Kanyarat Holasut**
The Effectiveness of Thai Traditional Herbal Decoction Consumed in the Northeast of Thailand

OP-87 | **Thatsanand Xayavong, Theera Rittirod**
Stability Study of Oseltamivir Extemporaneous Suspension

OP-88 | **Ebru Yilmaz, Deniz Çoban, Murat Er**
Effects of Olive Leaf (*Olea europaea* L.) Extract on the Growth Performance and Some Blood Parameters of Common Carp (*Cyprinus carpio*)

OP-89 | **Narin Sadıkoğlu, Mehmet Efe**
Leaf Anatomy of the Genus *Origanum* L. (Labiatae) in Turkey

OP-90 | **Ela Nur Şimşek Sezer, Meryem Bozkurt, Nihal İlhan, Tuna Uysal**
Characterization of Volatile Compounds of *Mentha pulegium* via HS-SPME

11.45 – 12.00 | COFFEE BREAK

SALON B / SESSION – IX**CHAIRPERSONS:** Paweena Pradniwat & Elsadig A. Eltayed**10.45 – 11.45 ORAL PRESENTATIONS**

OP-91 **Awatif Boumaza, Messaouda Khallaf, Mouna Cherairia**
Cytotoxic and Genotoxic Effects of Water Extracts of *Zygophyllum cornutum* and *Atractylis gummifera* Using *Allium cepa* assay

OP-92 **Yigit Gunes, Tulay Bakrel, Oya Ustuner**
Adverse Effects of Conventional Drug-Medicinal Plant Interactions in Veterinary Medicine

OP-93 **Mervem Bozkurt, Ela Nur Şimşek Sezer, Nihal İlhan, Tuna Uysal**
Determination of Volatile and Semi-Volatile Oil Content of *Isatis tinctoria* L. via SPME-GC-MS

OP-94 **Murat Tuncturk, Tamer Eryigit, Ruveyde Tuncturk, Lütfi Nohutçu**
The Chemical Composition of *Delphinium szowitsianum* Boiss. Species Spreading in Van Region

OP-95 **Emine Saliha Toprak, Hasan Hüseyin Yiğitbaşı, Himmet Özcan, İrem Ayran, Sadiye Ayşe Çelik, Hayal Akyıldırım Beğen**
The Essential Oil Yield and Compositions of Summer Savory (*Satureja hortensis* L.) Collected in Turkey

11.45 – 12.00 COFFEE BREAK

SALON A / SESSION – XI**CHAIRPERSONS:** Theera Rittirod & Safiye Emirdağ Öztürk**12.00 – 12.45** | **ORAL PRESENTATIONS**

OP-96	İrem Ayran, S. Ayşe Çelik, Asuman Kan, Yüksel Kan The Essential Oil Yield and Compositions of <i>Nigella sativa</i> L. and <i>Nigella damascena</i> L. Cultivated in Konya Ecological Conditions
OP-97	Rukiye Özkaya, Hakan Çetinkaya, İbrahim Samet Gökçen, Mehmet Koç The Role and Use of Olive Oil and Olive Leaves as a Functional Food
OP-98	İbrahim Samet Gökçen, Hakan Çetinkaya, Birhan Kunter, Nurhan Keskin As A Good Source of Melatonin: Grape and Grape Products
OP-99	Chandrashekhara D. Upasani and Abdulla K. Sherikar Effects of Topiramate a Novel Anti-epileptic Drug in Chronic Constriction Injury Induced Neuropathic Pain in Rats
OP-100	Onur Kenan Ulutaş Negative Data But No Worries
13.00 – 14.00	LUNCH & CLOSING CEREMONY

27 APRIL 2019, SATURDAY**14.00 – 19.00** | Touristic – Technical Visit

MESMAP – 5
POSTER PROGRAM

MESMAP-5 FINAL PROGRAM

POSTER SESSIONS

PP – 1	<u>Višnja Oreščanin, Štefica Findri Guštek, Josipa Rodić</u> The Efficacy of New Bioapifit® Anti-Hemorrhoidal Ointment Versus Standard Treatment Protocol
PP – 3	<u>Nadjia Hamlat, A. Hassani</u> Antioxidant Activity and Free Aglycone Compounds in Aerial Parts of Three Species of <i>Pistacia</i> Growing in Algeria
PP – 4	<u>Ana Flavia Burlec, Lukasz Pecio, Mariusz Kowalczyk, Cornelia Mircea, Oana Cioancă, Andreia Corciovă, Alina Nicolescu, Cătălina Stan, Wiesław Oleszek, Monica Hăncianu</u> Chemical Profile and Antioxidant Activity of New Selective <i>Zinnia elegans</i> Fractions
PP – 5	<u>Zine El Abidine Ababsa, Mohamed Tahar Derouiche, Jean Pierre Mahy, Kamel Medjroubi, Salah Akkal</u> <i>In-Vivo</i> Anti-ulcerative and Antidiarrheal Activities of the <i>Tetraclinis articulata</i> species of the Cupressaceae family
PP – 6	<u>Cristina Iancu, Cornelia Mircea, Oana Cioanca, Catalina Stan, Nina Filip, Cristinel Stan, Gabriela Tataranga, Monica Hăncianu</u> <i>In Vivo</i> Anti-Inflammatory Effects of Some Extracts from <i>Pelargonium</i> sp.
PP – 7	<u>Ece Sözer, Safiye Emirdağ-Öztürk, N. Gökçe Ulusoy, Nurettin Yaylı, Halil Ciftci, Mohamed O. Radwan, Mikako Fujita, Masami Otsuka</u> New Gypsogenin-Amine Compounds

PP – 8	<u>Amantay A., Dyusebaeva M., Jenis J.</u> Chemical Constituents of <i>Artemisia albicerata</i>
PP – 9	<u>Nurlybekova A.K., Amantay A., Ye Yang, Abilov Zh.A., Jenis J.</u> Liposoluble Constituents from the Aerial Part of <i>Ligularia narynensis</i>
PP – 10	<u>Izabela Korona-Glowniak, Diana Ivanova, Anna Malm, Alexander Tashev, Paraskev Nedialkov, Galina Kalotova, George Angelov</u> Antibacterial Activity of Conifers
PP – 11	<u>Alexander Tashev, Violeta Dimitrova</u> Medicinal Plants of Bulgaria
PP – 12	<u>Kabouche A, Bouratoua A, Kabouche Z, Al Abdulmagid A, Voutquenne-Nazabadioko L, Morjani H.</u> Polyphenols from <i>Athamanta sicula</i> L
PP – 13	<u>Elif Güzel, Hüseyin Servi, Cansu Vatansever</u> Antibacterial Activity of <i>Peganum harmala</i> Seed Extracts
PP – 14	<u>Elif Güzel, Cansu Vatansever, Hüseyin Servi</u> Determination of Antibacterial Activity from Seed Extracts of <i>Pistacia terebinthus</i>
PP – 15	<u>İrem Şengür, Cansu Vatansever, Hüseyin Servi</u> Antibacterial Activity of <i>Sambucus nigra</i> Seed Extracts
PP – 16	<u>İrem Şengür, Hüseyin Servi, Cansu Vatansever</u> Determination of Antibacterial Activity of <i>Linum usitatissimum</i> Seed Extracts
PP – 17	<u>İrmak Alev, Cansu Vatansever, Hüseyin Servi</u> The Antibacterial Activity of <i>Elaeagnus angustifolia</i> L. Fruit and Leaf Extracts

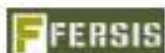
PP – 18	<u>Awatif Boumaza, Messaouda Khallaf, Mouna Cherairia</u> Mutagenic <i>In Vitro</i> Activity and Genotoxic Effect of <i>Zygophyllum cornutum</i> Methanolic Extract
PP – 19	<u>Boubakeur B., Khadem H., Drabo M. S., Tir Touil Meddah A.</u> Biological activities of <i>Thymus fontanesii</i> Polyphenolic Extract: <i>In Vitro</i> and <i>In Vivo</i> Effect on Bacterial Adhesion and Colonisation
PP – 20	<u>Samukelisiwe Clerance Ngubane, Helene De Wet, Sandy Van Vuuren</u> <i>In Vitro</i> Toxicological Evaluation of Some Medicinal Plants Used By Women in Northern Maputaland, South Africa
PP – 21	<u>Saiqa Ishtiaq, Rabia Arshad, Sairah Hafeez Kamran</u> <i>In-vitro</i> Susceptibility Testing of Tea Tree Oil Acne Cream in Combination with Salicylic Acid and Nicotinamide
PP – 22	<u>Grozi Delchev</u> Impact of Some Herbicides and Herbicide Combinations on Sowing Characteristics of Coriander (<i>Coriandrum sativum</i> L.)
PP – 23	<u>Fatma Ayaz, Nuraniye Eruygun, Yavuz Bağcı, H. Filiz Ayyıldız</u> Profiling of Phenolic Compounds By HPLC–DAD, Antioxidant and Enzyme Inhibitory Activities of <i>Marrubium vulgare</i> L. and <i>Marrubium parviflorum</i> Fisch. & Mey. subsp. <i>Parviflorum</i>
PP – 24	<u>Mahmoudi Kheira, Cheriti A., Didi Oueld El Hadj M</u> Preliminary Phytochemical Screening of Four Saharan Plants used in South West of Algeria
PP – 25	<u>Tabassum Khan, Anju Kashyap</u> Phytochemistry and Cytotoxic Potential of <i>Litsea deccanensis</i> bark.

PP – 26	Gabriela Tataringa, Ana Maria Zbancioc, Catalina Stan, Cornelia Mircea, <u>Monica Hancianu</u> <i>In Vitro</i> Antioxidant Prospection of Onion Oil from Romanian Source
PP – 27	<u>F. Sezer Senol Deniz, Ilkay Erdogan Orhan, İhsan Çalıř</u> Profiling Enzyme Inhibitory Potential of Cycloartane Type of Triterpene Glycosides from the Roots of Three <i>Astragalus</i> Species
PP – 28	<u>Habiba Daroui-Mokaddem, Assia Zeghib, Fouad Zeghib, Linda Achouri, Sara Abbas, Khouloud Fradj, Amel Moussaoui, Soraya Hioun, Zahia Kabouche, Belgacem Djabri</u> Antioxidant Activity and Phenolic Content of <i>Peganum harmala</i> Used in Algerian Folk Medicine
PP – 29	Assia Zeghib, <u>Habiba Daroui-Mokaddem, Fouad Zeghib, Soraya Hioun, Khouloud Fradj, Zahia Kabouche, Belgacem Djabri</u> Phytochemical Screening and Antibacterial Activity of <i>Pituranthos scoparius</i> Aerial Parts Harvested from the Area of Tébessa (Algeria)
PP – 30	<u>Nabila Slougui, Naima Draoui, Cherifa Khaddar, Mahfoud Hadj Mahammed</u> Study of the Varietal Behavior of 6 Basil Varieties (<i>Ocimum basilicum</i> L) Grown for the First Time in Algeria Under Arid Climate
PP – 31	<u>Salima Douichene, Nessrine Ammari, Noureddine Djebli</u> Neuroprotective Effect of <i>Hypericum thymopsis</i> against Chronic Exposure to Aluminum Chloride and Alzheimer's Disease
PP – 32	<u>Tuğba Günbatan, Mert İlhan, Esra Küpeli Akkol, İlhan Gürbüz, Hayri Duman, Ceyda Sibel Kiliç</u> <i>In Vitro</i> Enzyme Inhibitory Activity of Three <i>Ferulago</i> Species Growing in Turkey

PP – 33	<u>T.S.Mammadov, A.G.Rasulova, S.B.Bagirova</u> Comparative Analysis of Rare and Endangered Plants of Hirkan dendroflora
PP – 34	<u>Blagica Jovanova, Svetlana Kulevanova, Tatjana Kadifkova Panovska</u> ROS Scavenging and Reducing Capacity of Aromatic Herbs
PP – 35	<u>Rafik Bensegueni, Mounia Guergouri, Chawki Bensouici, Mustapha Bencharif</u> Antioxidant Activity of Four Nitrogen Organic Compounds: Correlation between Theoretical and Experimental Data
PP – 36	<u>Meliani Samiha</u> Study of the Hypglycemic Activity of the Common Figs of the Region of Ain Defla Algeria
PP – 37	<u>Antoaneta Trendafilova, Miroslav Rangelov, Milka Todorova</u> Qualitative and Quantitative Determination of Mono- and Dicafeoylquinic Acids in <i>Inula</i> Species from Bulgaria
PP – 38	<u>Ilhem Semra, Mehmet Öztürk, Ahmed Kabouche, Zahia Kabouche</u> Total Phenolic Content and Antioxidant Activity of the n-Butanol Extract of <i>Mentha rotundifolia</i> from Algeria
PP – 39	<u>Inès Bellil, Djamila Benouchenne, Douadi Khelifi</u> Radical Scavenging and Anti-Bacterial Activities of Methanolic Extract from Algerian Fir (<i>Abies numidica</i>) Leaves
PP – 40	<u>Naima Hellali, Mahfoud Hadj Mahammed, Mebarka Bouziane</u> Chemical composition and Biological Activities of the Essential Oils from Two Chemotypes of <i>Cymbopogon schoenanthus</i> (L.) spreng. Growing in Southern Algeria
PP – 41	<u>Mounira Benteldjouné, Tarek Boudiar, Abdelhakim Bakhouché, María Del Mar Contreras, Jesús Lozano-Sánchez, Chawki Bensouici, Antonio Segura-Carretero, Zahia Kabouche</u> Evaluation of the Antioxidant Potential, Phenolic and Flavonoid Contents of the Methanol Extract of <i>Ammoides atlantica</i>

PP – 42	Susmita Gudulkar, Usha Mukundan Extraction of Natural Product from Plant by Using a Microwave
PP – 43	Nidhi Pathak, Himanshu Dawda, Usha Mukundan Ursolic Acid as A Biochemical Marker in Family <i>Myrtaceae</i>
PP – 44	Orçun Çınar, Murat Tunçtürk, Tuba Seçmen, Ayşe Erdoğan, Ünal Karık Determination of Essential Oil Composition, Phenolic and Flavanoid Contents of <i>Phlomis longifolia</i> var. <i>longifolia</i> Collected from Hatay District of Turkey
PP – 45	Zehra Aydin Bek, Zubeyir Elmazoglu, Berna Goker, Berivan Bitik, Cem Nuri Aktekin, Cimen Karasu Effects of Mulberry (<i>Morus alba</i> L.) Leaf Extract (Immunflex®) on MMP-9, BMP-2 and COMP in Human Osteoarthritic Chondrocytes <i>In Vitro</i>
PP – 46	Zubeyir Elmazoglu, Zeynep Inan, Cansel Keskin, Naciye Bozkurt, İhsan Calis, Cimen Karasu Astragaloside IV and Forsythoside B Modulate Hyperglycemia-Mediated Neurotoxicity in Primary Hippocampal Neuronal Cells
PP – 47	M. Muharrem Özcan, Ayşegül Kırılı, Özbay Dede, İrem Avran, S.Ayşe Çelik, Yüksel Kan The Essential Oil Yield and Compositions of Lemon Verbana (<i>Lippia citrodara</i> Kunth.) Cultivated in Ordu
PP – 48	İrem Avran, S.Ayşe Çelik, Asuman Kan, Yüksel Kan The Essential Oil Yield and Compositions of Laurier (<i>Laurus nobilis</i> L.) Cultivated in Samsun
PP – 49	S.Ayşe Celik, İrem Ayran, Asuman Kan, Emine Bilginoglu, Yüksel Kan A Study on Essential Oil Yield and Components of Lemon Balm (<i>Melissa officinalis</i> L.) Cultivated Different Provinces in Turkey
PP – 50	S.Ayşe Celik, İrem Ayran, Asuman Kan, Yüksel Kan The Essential Oil Yield and Compositions of <i>Lavandula angustifolia</i> Miller and <i>Lavandula intermedia</i> Emeric ex Loisel. Cultivated in Bayburt Ecological Conditions

PP – 51	Halil İbrahim Polat, Esra İnfal, <u>Emine Saliha Toprak</u>, S.Ayşe Çelik, İrem Ayran The Essential Oil Yield and Compositions of Fennel (<i>Foeniculum vulgare</i> Mill.) Cultivated in Konya, Turkey
PP – 52	<u>Hallal Nouria</u>, Benyettou Imène, Kharoubi Omar The Polyphenols Extracted from the <i>Artemisia absinthium</i> L. Plant Combine Brain Oxidative Stress, Neuro-Inflammation and Neurodegeneration Induced by Heavy Metals (Aluminum and Mercury)
PP – 53	<u>N. Zülal Elekcioğlu</u> Pest Species Determined on Artichoke, <i>Cynara scolymus</i> L. (Asteraceae) in Adana / Turkey
PP – 54	<u>N. Zülal Elekcioğlu</u> Insect Pest Complex of Mint Species (<i>Mentha</i> spp.) (Lamiaceae) in Adana / Turkey
PP - 55	Selin Işık, Eda Becer, <u>Filiz Meriçli</u> Preliminary investigations on <i>Coriandrum sativum</i> cultivated in Northern Cyprus
PP - 56	<u>Svetla Angelova</u>, Ivelina Trifonova, Silvia Voleva, Stefka Ivanova, Rosalina Uzunova, Irina Georgieva, Asya Stoyanova, Ivayla Dincheva <i>Vaccinium vitis-idaea</i> L., picked in Bulgaria indicate <i>in vitro</i> antitumor activity on human cervical and breast cancer cells
PP - 57	<u>Melike Sucu</u>, Berna Hoti, Tuğba Günbatan, Filiz Bakar-Ateş, İlhan Gürbüz, Erdal Bedir, Hayri Duman, Ceyda Sibel Kılıç Cytotoxicity guided fractionation studies on <i>Ferulago syriaca</i> roots against various cancer cell lines
PP - 58	<u>Elif Dılmaç</u>, Berna Hoti, Tuğba Günbatan, Filiz Bakar-Ateş, İlhan Gürbüz, Erdal Bedir, Hayri Duman, Ceyda Sibel Kılıç Cytotoxicity guided fractionation studies on <i>Ferulago macrosciadia</i> roots against A549, MCF-7, PC3 and SW480 cancer cell lines



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