

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

**MESMAP - 7
PROGRAM BOOK**

November 18th – 20th, 2021

Izmir-Turkey



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Dokuz Eylul University, Izmir

&

**Torbali Chamber of Commerce,
Izmir-TURKEY**



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- CTFC – Centre Forestal Centre Tecnològic Forestal de Catalunya
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The 7th International Mediterranean Symposium on Medicinal and Aromatic Plants (MESMAP-7)

18- 19th November 2021

(Opening & Lectures and Presentations)

Dokuz Eylul University, DESEM Meeting Halls

20th November (International – Awarded MAPs R&D Project Market and Fair)

Torbalı Chamber of Commerce Meeting Halls

MESMAP – 7
ORAL PROGRAM

18 NOVEMBER 2021, THURSDAY

PROTOCOL & OPENING SPEECHES

Prof. Dr. Nazım ŞEKEROĞLU

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**IST, TURKEY
TIME ZONE
09.30 – 10.30**

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President of Torbalı (Izmir) Chamber of Commerce, TURKEY

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SALON A / SESSION – I

CHAIRS: Kinzo Matsumoto & Anake Kijjoa

10.30 – 11.00	<p>Keynote Lecturer: Prof. Dr. Yoshinori Asakawa The President of PSA Director, Institute of Pharmacognosy, Tokushima Bunri University, Tokushima, JAPAN Title: <i>'Liverworts Are Good Sources of Bio- and Pharmacologically Active Compounds'</i></p>
11.00 – 11.20	<p>Invited Lecturer: Prof. Dr. Marc F. Diederich Department of Pharmacy, College of Pharmacy, Seoul National University, Building 29 Room 223, 1 Gwanak-ro, Gwanak-gu, Seoul, 08826, SOUTH KOREA Title: <i>'Natural Compounds Induce Immunogenic Cell Death in Cancer'</i></p>
11.20 – 11.40	<p>Invited Lecturer: Prof. Dr. Muhsin Konuk Department of Molecular Biology and Genetics, Faculty of Engineering and Natural Sciences; Biotechnology Research and Application Center, University of Üsküdar, Istanbul, TURKEY Title: <i>'On the Some Remarkable Features of Hesperidin'</i></p>

11.40 – 12.00	<p>Invited Lecturer: Prof. Dr. Franz Bucar Institute of Pharmaceutical Sciences, Department of Pharmacognosy University of Graz, AUSTRIA Title: ‘Aromatic Plants as Antibacterials – more than Inhibitors of Bacterial Growth’</p>
12.00 – 12.20	<p>Invited Lecturer: Prof. Dr. Jianbo Xiao Department of Analytical Chemistry and Food Science, Faculty of Food Science and Technology, University of Vigo, Vigo, SPAIN Title: ‘Myricetin Alleviates RAW264.7 Macrophages Damage Induced by High Glucose Levels’</p>
12.20 – 13.30	BREAK (LUNCH TIME)
SALON A / SESSION – II	
CHAIRS: Yoshinori Asakawa & Marc F. Diederich	
13.30 – 14.00	<p>Keynote Lecturer: Prof. Dr. Kinzo Matsumoto Graduate School of Pharmaceutical Sciences, Daiichi University of Pharmacy, Fukuoka 825-8511, Fukuoka, JAPAN Title: ‘Experimental Therapeutic Approach to Autism Spectrum Disorder from Kampo Medicines in a Neurosteroid Deficiency Model’</p>

14.00 – 14.20	<p>Invited Lecturer: Prof. Dr. Francesco Cimino Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina, Messina, ITALY Title: ‘Anthocyanins as Protective Agents Against Metabolic Syndrome-Related Dysfunctions: Potential Mechanisms Underlying Preventive and Therapeutic Benefits’</p>
14.20 – 14.40	<p>Invited Lecturer: Dr. Orawan Monthakantirat Faculty of Pharmaceutical Sciences, Khon Kaen University, 123 Mitraphap Rd., 40002, Maung Khon Kaen, THAILAND Title: ‘Neuroprotective Potential and Phytoconstituents of Thai Traditional Herbal Formula “Kleeb Bua Daeng” Against Neuropsychiatric Diseases and Neurodegenerative diseases’</p>
14.40 – 15.00	<p>Invited Lecturer: Prof. Dr. Riyaz Z. Sayyed Head, Dept. of Microbiology, PSGVPM'S ASC, College, SHAHADA 425409 (KBC North Maha. Univ.), INDIA, Title: ‘Role of Endophytic Rhizobacteria in Inducing Systemic Resistance and Bio-Control of Fungal Pathogens of Medicinal Plants’</p>
15.00 – 15.20	<p>Invited Lecturer: Prof. Dr. Alban Ibrahliu Department of Agronomic Sciences, Agricultural University, Kodër Kamëz, Tirana, ALBANIA Title: ‘Situation of MAPs in Albania– Trend and Challenges for the future’</p>

15.20 – 15.40	<p>Invited Lecturer: Assist. Prof. Dr. Ali Ammarellou Research Institute of Modern Biological Techniques; University of Zanjan, IRAN Title: ‘Introducing of a New Developed Medicinal Spinach (Spino) as Iron Rich Variety’</p>
15.40 – 16.00	COFFEE BREAK
SALON A / SESSION – III	
CHAIRS: Franz Bucar & Jianbo Xiao	
16.00 – 16.30	<p>Keynote Lecturer: Prof. Dr. Irfan Ali Khan ‘Former Director, Nawab Shah Alam Khan Center for Post Graduate Studies and Research’ Osmania University, Mallepally, Hyderabad - 500001, Telangana State, INDIA Title: ‘How Many Discoveries Have Been Lost by Ignoring the Proper Application of Biostatistical Methods?’</p>
16.30 – 16.50	<p>Invited Lecturer: Dr. Mario Licata Department of Agricultural, Food and Forest Sciences Università degli Studi di Palermo Viale delle Scienze 13, Building 4, 90128, Palermo, ITALY Title: ‘The Influence of Treated Wastewater Irrigation on Growth, Yield and Essential Oil Compounds of Sicilian Oregano (Origanum vulgare ssp. Hirtum (Link) Ietswaart)’</p>

16.50 – 17.10	<p>Invited Lecturer: Assoc. Prof. Dr. Gökhan Zengin Physiology and Biochemistry Research Laboratory, Department of Biology, Science Faculty, Selcuk University, Campus, 42130, Konya, TURKEY Title: ‘Chemical characterization and biopharmaceutical properties of three fruits from Côte d’Ivoire’</p>
17.10 – 17.30	<p>Invited Lecturer: Prof. Dr. Salah Akkal Unit for the Valorization of Natural Resources, Bioactive Molecules and Physico-Chemical and Biological Analyzes, Faculty of Exact Sciences, Department of Chemistry, Mentouri University of Constantine 1, ALGERIA Title: ‘Novel Natural Products from Algerian Medicinal and Aromatic Plants’</p>
17.30 – 17.50	<p>Invited Lecturer: Prof. Dr. Eldar Garayev Department of General and Toxicological Chemistry, Faculty of Pharmacy, Azerbaijan Medical University, AZ-1078, Baku, AZERBAIJAN Title: ‘Phytochemistry of Some Alkaloid Containing Plants from Azerbaijan’</p>
17.50 – 18.10	<p>Invited Lecturer: Dr. Salar Hafez Ghoran Department of Chemistry, Medicinal and Natural Products Chemistry Research Center, Shiraz University of Medical Sciences, Shiraz, IRAN Title: ‘Some Uncommon Bioactive Metabolites from Salvia sp. (Lamiaceae) and Scilla sp. (Liliaceae)’</p>

19 NOVEMBER 2021, FRIDAY

SALON A / SESSION – IV

CHAIRS: Jamal Fayazi & Khaetthareeya Sutthanut

09.00 – 10.00	ORAL PRESENTATIONS
OP-1	Manuschanok Jampa, Khaetthareeya Sutthanut*, Wipawee Tukummee, Jintanaporn Wattanathorn, Natthida Weerapreeyakul <i>Cosmeceutical potential of Manihot esculenta leaf: UV filter, antioxidation, anti-melanogenesis, collagen synthesis enhancement, and anti-adipogenesis</i>
OP-2	E. Duyuşen Güven, Serpil Özmihçı, Ayşenur Özuysal, <u>Görkem Akıncı*</u> <i>Metals Accumulation and Transfer in Portulaca oleracea L. Samples as Edible Wild Plants in Aegean Region of Mediterranean Area</i>
OP-3	<u>Oana Cioanca*</u>, Cornelia Mircea, Remo Dorneanu, Ioana Humulescu, Ionut Iulian Lungu, Silvia Robu, Dana Tutunaru, Monica Hancianu <i>Biological Characterization of Anthocyanins in Oxidative Stress and Urinary Infections</i>
OP-4	Fatemeh Hendijani, Jamal Fayazi*, Hedayat-Allah Roshanfekar, Reza

	Ghorbani <i>Gene Expression Evaluation of Star in Testis and TSPO in Quail Ovaries Under the Influence of Vitamin E</i>
OP-5	Marina Spînu*, Diana Olah, Carmen Dana Șandru, Páll Emöke, Constantin Cerbu, Monica Suătean, Emilia Ungureanu, Sergiu Zăblău, Aurel Vasiu <i>Is In Vitro Plant Extracts' Activity Conditioned by Phylogenetic Differences between Target Species?</i>
OP-6	Mubasshira Mazharul Haque, Geeta Ibrahim, Priya Sundarrajan* <i>Utilization of Potato Peel Extract as a Source of Natural Antioxidant and Incorporation into Value Added Products</i>
10.00 – 10.10	COFFEE BREAK
SALON A / SESSION – V	
CHAIRS: Ivan Salamon & Muhsin Konuk	
10.10 – 11.10	ORAL PRESENTATIONS
OP-7	Ivan Salamon* <i>Essential Oil German Chamomile (Matricaria recutita L.) in Ukraine and</i>

	<i>Its Composition of Essential Oil</i>
OP-8	Davide Farruggia*, Giuseppe Virga <i>Morphological and Qualitative Evaluation of Clary Sage Populations from Sicily (Italy)</i>
OP-9	Cornelia Mircea*, Monica Hăncianu, Flavia Burlec, Oana Cioancă, Cristina Iancu, Andreia Corciovă <i>Improving the Biological Properties of Plant Extracts by the Synthesis of Metal Nanoparticles</i>
OP-10	Ramazan Çakmakçı* <i>Effect of Inorganic Fertilizer and Microbial Consortium to Growth and Production of Sweet Basil (<i>Ocimum basilicum</i> L.)</i>
OP-11	Fatma Uysal Bayar*, Muharrem Gölükcü <i>Effect of Plant Age on Essential Oil Content and Composition of <i>Salvia fruticosa</i> (Mill.)</i>
OP-12	Narimane Seguen*, Amina Daikh, Farid Nasirli, Nazime Mercan Doğan, Şevki Arslan, Doğukan Mutlu <i>In Vitro Inhibition of Human Breast Cancer Adenocarcinoma Cell by Propolis via Induction of Intrinsic Pathway of Apoptosis</i>
11.10 – 11.20	COFFEE BREAK
SALON A / SESSION – VI	
CHAIRS: Salah Akkal & Nina Djapic	

11.20 – 12.20	
	ORAL PRESENTATIONS
OP-13	Nicolò Iacuzzi*, Giuseppe Virga <i>Effects of Irrigation and Type of Substrate on the Morphological and Production Characteristics of Biotypes of Rosmarinus officinalis L. Grown in Pots</i>
OP-14	Nina Djapic* <i>Autumn Leaves Fragrance Oil</i>
OP-15	Claudio Ferrante*, Alessandra Acquaviva, Simonetta Cristina Di Simone, Giustino Orlando, Luigi Menghini <i>Phytochemical and Pharmacological Effects of Two Industrial Hemp Varieties from Italian Cultivation</i>
OP-16	Elham Nezarat, Mohammad Hossain Gharineh*, Seyed Amir Moosavi, Saman Abdanan Mehdzade <i>Treatments to Overcome Seed Dormancy in Caper (Capparis spinosa)</i>
OP-17	Mustafa Can*, Belgin Sever, Halil Ibrahim Ciftci <i>Thiadiazole Derivatives as Potential EGFR Targeted Anticancer Agents</i>
OP-18	Narimane Segueni*, Merve Keskin, Şaban Keskin, Benlabeled Kadour, Sevgi Kolaylı, Akkal Salah <i>Correlation Between Antibacterial Antioxidant and Phenolic and Flavonoid Contents of Different Algerian and Anatolian Propolis</i>
12.20 – 13.30	BREAK (LUNCH TIME)

SALON A / SESSION – VII**CHAIRS: Marina Spinu & Irfan Ali Khan**

13.30 – 14.30	ORAL PRESENTATIONS
OP-19	Ahlem Ben Sassi*, Sana Zerai, Imed Ben Aissa, Maha Mastouri, Messaoud Mars <i>Effect of Osmotic Stress on Germination, Seedling Growth and Physiological Parameters of Brassica oleracea L.</i>
OP-20	Ciprian Ilașcă*, Diana Olah, Adrian Potârniche, Sergiu Zăblău, Páll Emöke, Constantin Cerbu, Aurel Vasiu, Marina Spînu, Carmen Dana, Șandru <i>Hippophae Rhamnoides Alcoholic Extract's Potential Use as a Non-Specific Phagocytosis Enhancer in Cows with Clinical Mastitis</i>
OP-21	Gheorghîță Duca*, Emöke Páll, Diana Ioana Olah, Constantin Cerbu, Adrian Valentin Potârniche, Sergiu Dan Zăblău, Aurel Vasiu, Carmen Dana Șandru, Marina Spînu <i>Plant Essential Oils as an Alternative Therapy of Infectious Pododermatitis in Sheep</i>
OP-22	Cigdem Kahraman*, Kubra Sener, Ekrem Murat Gonulalan <i>Correlation Between Cytotoxic Activities and Metabolomic Profiles of Selected Lamiaceae Species</i>
OP-23	Antonio Speciale*

	<i>A Pinitol-Rich Glycyrrhiza glabra L. Leaf Extract as Functional Supplement with Potential in the Prevention of Metabolically Induced Inflammation and Insulin-Resistance</i>
OP-24	Alper Dilek, Ebru Bati Ay*, Muhammed Akif Açikgöz, Beril Kocaman <i>Changes of Antioxidant Activity, Total Phenolic and Flavonoid Contents in Safflower According to Development Periods of Sorbitol Foliar Applications</i>
14.30 – 14.40	COFFEE BREAK
SALON A / SESSION – VIII	
CHAIRS: Riyaz Z. Sayyed & Gorkem Akinci	
14.40 – 15.40	ORAL PRESENTATIONS
OP-25	Riyaz Z. Sayyed* <i>Application of inorganic Fertilizer Promotes Nutrients in the Ginger Rhizome and Soil Enzymes Activities</i>
OP-26	Farida Fernane*, Fella Gaad, Zahra Lhadjmohand <i>Phytochemical Analysis of Aerial and Underground Parts of Urtica dioica</i>
OP-27	Ivan Salamon*, Worrapan Poomanee, Augustin Lapos <i>Qualitative and Quantitative Analysis of High-Level Chemical</i>

	<i>Constituents of Chamomile and Peppermint Grown in Eastern Slovakia</i>
OP-28	Višnja Oreščanin*, Štefica Findri Guštek <i>The Performance of BIOAPIFIT® Anti Atopic Ointment in The Treatment of Psoriasis vulgaris</i>
OP-29	Ela Nur Şimşek Sezer* <i>Assessment of the In Vitro Cytotoxic Effects of Tanacetum haradjanii (Rech.Fil.) Grierson</i>
OP-30	Meryem Bozkurt* <i>Comparative Karyotype Analysis of Populations in The Muscari massayanum (Asparagaceae) in Turkey</i>
15.40 – 15.50	COFFEE BREAK
SALON A / SESSION – IX	
CHAIRS: Ramazan Çakmakçı & Fatima Zohra Guellouma	
15.50 – 16.50	ORAL PRESENTATIONS
OP-31	Fatima Zohra Guellouma*, Hadjer Boussoussa, Ihcen Khachba, Mohamed Yousfi <i>Antibacterial Activity Testing of Natural Extracts; Essential Oil, Phenols and Alkaloids of Some Medicinal Plants and Fungus against Multiresistant Drug Bacteria</i>
OP-32	Sibel Kerem, Nezahat Koşar, Fetullah Tekin, Ayşe Semra Güreşer, Özlem Özbek*

	<i>Investigation of Antimicrobial Activities of the Species Belong to The Genera of Tymbra, Thymus and Origanum in Lamiaceae Family from Turkey</i>
OP-33	Narimane Seguenn*, Amina Daikh, Farid Nasirli, Nazime Mercan Doğan, Şevki Arslan, Doğukan Mutlu <i>In Vitro Inhibition of Human Breast Cancer Adenocarcinoma Cell by Propolis via Induction of Intrinsic Pathway of Apoptosis</i>
OP-34	Songül Çakmakçı*, Ramazan Çakmakçı <i>An Important Natural Resource for Health and Nutrition: Oleaster (Elaeagnus angustifolia L.)</i>
OP-35	Gulsum Yıldız*, Halide Edip Temel, Betül Demirci <i>Cyclooxygenase Inhibitory Activity and Composition of Echinophora tenuifolia L. Subsp. Sibthorpiana (Guss.) Tutin L</i>
OP-36	Gökhan Erkan*, Gizem C. Türkoğlu, A. Merih Saruşık, Ayşegül Ç. Bakadur, Burçin Ütebay <i>Medicinal and Aromatic Plants Extracts Use in Textiles</i>
16.50 – 17.00	COFFEE BREAK
SALON A / SESSION – X	
CHAIRS: &	
17.00 – 18.00	ORAL PRESENTATIONS
OP-37	Aurel VasIU*, Carmen Dana Şandru, Diana Olah, Sergiu Zăblău,

	Emilia Ungureanu, Adrian Potârniche, Constantin Cerbu, Marina Spînu <i>Differences in Adjuvant Activity of an Oily Hippophae rhamnoides Extract in Aves and Mammalia</i>
OP-38	Abdullah Naci, Hamza Alaşalvar, Bülent Başıyigit, Pelin Salum, Zafer Erbay, Mustafa Çam* <i>Microencapsulation Process Affects Aroma Profile of Hibiscus sabdariffa</i>
OP-39	Fadime Eryılmaz Pehlivan*
OP-40	Bouhenni Hasna*, Doukani Koula <i>Combined Effect of Two Medicinal Plants; Fenugreek (Trigonella foenum-Graecum L.), Cumin (Cuminum cyminum L.) with Probiotics Against Helicobacter pylori</i>
OP-41	Mahmut Camlica, Gulsum Yaldiz* <i>Correlation and PCA analysis results in 6 morphological properties of different fenugreek genotypes</i>
OP-42	Tuğba Günbatan*, H. Nazlı Gök, Burçin Özüpek, Sultan Pekacar, Didem Deliorman Orhan, İlhan Gürbüz <i>Investigation of the Effect of Six Plant Species on Enzymes Associated with Diabetes and Obesity</i>
OP-43	Narin Sadıkoğlu* <i>The Status of Herbal Products in Pharmacies in Kahramanmaraş/Turkey</i>
18.00 – 18.10	COFFEE BREAK
18.10 – 18.30	

	POSTER SESSION
18.30 – 19.00	DISCUSSION & CLOSING

MESMAP-1

MESMAP – 7
POSTER PROGRAM

19 NOVEMBER 2021, FRIDAY
TIME: 18.10 – 18.30 (IST, TURKEY TIME ZONE)
POSTER SESSIONS

PP – 1	<p><u>Farida Fernane*</u>, Yasmine Messara, Ghenima Adlani, Dyhia Baik, Katia Bourkache, Saida Ramdani</p> <p><i>Effect of Several Parameters on the Chemical Composition of Essential Oils and Secondary Metabolites Extracted from Aerial Parts of Three Lamiaceae Species</i></p>
PP – 2	<p><u>Hanen Falleh*</u>, Mariem Benjemâa, Riadh Ksouri</p> <p><i>Cinnamomum zeylanicum and Myrtus communis Essential Oils: Chemical Investigation and Biological Potencies</i></p>
PP – 3	<p><u>Helali Amal*</u>, Benchachou Khadidja, Terbeche Mustapha, Yakoub Sid-Ahmed</p> <p><i>Knowledge and Acceptance of Algerian Physicians toward Phytotherapy and Herbal Remedies</i></p>
PP – 4	<p><u>Helali Amal*</u>, Benchachou Khadidja, Hammadi Meriem Wafaa, Houalef Manel</p> <p><i>Plant-Derived Natural Compounds and Coronavirus: A Review</i></p>
PP – 5	<p><u>Irina Ielciu*</u>, Eموke Pall, Mihaela Niculae, Neli-Kinga Olah, Sanda Andrei, Ilioara Oniga, Daniela Benedec, Daniela Hanganu</p> <p><i>Biological Activities of a Polyphenolic Enriched Extract of Rosmarinus officinalis L.</i></p>

PP – 6	<u>Gulsum Yaldiz*</u>, Mahmut Camlica <i>Yield and Essential Oil Composition Diversity of Different Basil Genotypes</i>
PP – 7	<u>Ramdane Farah*</u>, Hrizat Nour El Houda, Solti Ami, Hadj Mohammed Mahfoud <i>Phytochemical And Biological Investigation of Hydroethanolic Extract of Artemisia judaica</i>
PP – 8	<u>Mustafa Can*</u>, Halil Ibrahim Ciftci, Belgin Sever, Nilüfer Bayrak, Mahmut Yıldız, Hatice Yıldırım, Hiroshi Tateishi, Masami Otsuka, Mikako Fujita, Amaç Fatih Tuyun <i>Evaluation of Plastoquinone Analogs as Anti-Colorectal and Anti-Breast Cancer Agents</i>
PP – 9	<u>Victoria Buza*</u>, Emöke Páll, Daniela Hanganu, Mihaela Niculae, Maria-Cătălina Matei Lațiu, Ion Vlasiuc, Ștefănuț Laura Cristina <i>Cytotoxicity Evaluation of Inula helenium and Gentiana asclepiadea Ethanolic Extracts on Rat Intestinal Epithelial Cells</i>
PP – 10	Fadime Eryılmaz Pehlivan
PP – 11	<u>Gulsum Yaldiz*</u>, Mahmut Camlica <i>Morphological, Yield and Essential Oil Content of Sage Grown with Different Organic Manure</i>
PP – 12	<u>Doukani Koula*</u>, Bouhenni Hasna, Bouhenni Rania Chahinez, Benslimane Chaimaa <i>Antioxidant and Antibacterial Activity of Essential Oils and Hydrosols from Salvia officinalis L.</i>

20 NOVEMBER 2021, SATURDAY

**INTERNATIONAL – AWARDED MAPs R&D
PROJECT MARKET AND FAIR**



Venue: Torbalı [Chamber of Commerce Meeting Halls](#), Torbalı Mh,
Aydın Cd. No:74, 35860, Torbalı, İzmir – TURKEY

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