The Sixth International Mediterranean Symposium on Medicinal and Aromatic Plants

MESMAP - 6
PROGRAM BOOK

October 15th – 17th, 2020

Izmir-Turkey
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- FIARN509 – Free International Association of Researchers on Natural Substances 2009
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- Isık Spices and Herbs Company
- Talya Herbal Company
- Kilizi Organic Olive Oil
- Altun HUZME Olive Oil
- NS Herbals Company
MESMAP – 6
ORAL PROGRAM
### 15 OCTOBER 2020, THURSDAY

| IST, TURKEY TIME ZONE 09.00 – 09.20 | Opening Ceremony: Prof. Dr. Nazım ŞEKEROĞLU  
Chair of MESMAP International Symposiums |
|-------------------------------------|-----------------------------------------------|

**SALON A / SESSION – I**

**CHAIRS:** Jianbo Xiao & Mutlu Aytemir

| 09.20 – 09.40 | Invited Lecturer: Prof. Dr. Yusuf BARAN  
Department of Molecular Biology and Genetics, Faculty of Science and Literature, Izmir Institute of Technology – TURKEY  
Title: "Mechanisms of Multidrug Resistance and Its Reversal in Hematological Malignancies" |
|----------------|--------------------------------------------------------------------------------|

| 09.40 – 10.00 | Invited Lecturer: Prof. Dr. Randolph RJ ARROO  
Leicester School of Pharmacy, De Montfort University, The Gateway, Leicester LE1 9BH – UK  
Title: "Absorption, Distribution, Metabolism and Excretion (ADME) of Dietary Flavones and Their Glycosides" |
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<td>Time</td>
<td>Invited Lecturer</td>
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<tr>
<td>10.00</td>
<td>Prof. Dr. Takashi WATANABE</td>
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<td>10.20</td>
<td>Assoc. Prof. Dr. Yaowared CHULIKHIT</td>
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<td>10.40</td>
<td>Prof. Dr. Alban IBRALIU</td>
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<tr>
<td>11.00</td>
<td>COFFEE BREAK</td>
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<tr>
<td>11.20 – 11.40</td>
<td>Invited Lecturer: Prof. Dr. Jianbo XIAO</td>
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<td>11.40 – 12.00</td>
<td>Invited Lecturer: Prof. Dr. Mutlu AYTEMİR</td>
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<td>12.00 – 12.20</td>
<td>Invited Lecturer: Prof. Dr. Hari-Prasad DEVKOTA</td>
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<td>12.20 – 12.40</td>
<td>Invited Lecturer: Prof. Dr. Nazlı ARDA</td>
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<tr>
<td>Time</td>
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| 12.40 – 13.00 | Invited Lecturer: Prof. Dr. Marina SPÎNU  
Department of Clinical Sciences - Infectious Diseases, University of Agricultural Sciences and Veterinary Medicine – ROMANIA  
Title: "Antimicrobial and Immune Stimulating Use of Plants in Veterinary Medicine" |
| 13.00 – 14.00 | LUNCH TIME                                                              |
| 14.00 – 14.20 | SALON A / SESSION – III  
CHAIRS: Yaowared Chulikhit & Nazlı Arda |
| 14.00 – 14.20 | Invited Lecturer: Prof. Dr. Raman DANG  
Principal, KLE College of Pharmacy, Bengaluru, Karnataka – INDIA  
Raman Dang*, Sevgi Gezici  
Title: "Immunomodulatory Effects of Medicinal Plants and Natural Phytochemicals in Combating COVID-19" |
| 14.20 – 14.40 | Invited Lecturer: Prof. Dr. Atiar RAHMAN  
Department of Biochemistry and Molecular Biology, Faculty of Biological Sciences, University of Chittagong, Chittagong – BANGLADESH  
Title: "Standardized Litsea glutinosa (Lour.) Upregulates mRNA Expression of Antioxidative Enzymes and Normalizes IGE Levels to Control Diarrheal Incidences" |
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<tr>
<td>14.40 – 15.00</td>
<td>Invited Lecturer: Prof. Dr. Kanokwan JARUKAMJORN&lt;br&gt;Department of Pharmaceutical Biotechnology, University of Khon Kaen, Khon Kaen – THAILAND</td>
<td>&quot;Expression of Murine CYP1A1 by Andrographolide, an Active Constituent in Andrographis paniculata&quot;</td>
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<tr>
<td>15.00 – 15.20</td>
<td>Invited Lecturer: Prof. Dr. Ali BİLGİLİİ&lt;br&gt;Department of Pharmacology and Toxicology, Faculty of Veterinary, Ankara University – TURKEY</td>
<td>&quot;Poisonous Plants for Cats and Dogs Kept in House 1: Dieffenbachia Spp., Melia azedarach, Ricinus communis, Euphorbia pulcherrima, Narcissus Spp.&quot;</td>
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<tr>
<td>15.20 – 15.40</td>
<td>Invited Lecturer: Prof. Dr. Kuntal DAS&lt;br&gt;Department of Pharmacognosy and Phytochemistry, Krupanidhi College of Pharmacy, #12/1, Chikkabellandur, Carmelaram Post, Varthur, Hobli, Bangalore – INDIA</td>
<td>&quot;Discovery of Plant Secondary Metabolites as Lead from in Vitro Conserved Indian Threatened Medicinal Plants in Health Care Management&quot;</td>
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<td>15.40 – 16.00</td>
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| 16.00 – 16.20 | Invited Lecturer: Prof. Dr. Beraat ÖZÇELİK  
Faculty of Chemistry Metallurgy, Department of Food Engineering,  
Istanbul Technical University – TURKEY  
Title: "Nanoliposomal Delivery Systems for Plant Derived Bioactive Compounds" |                                                                                                 |                                                                                                |
| 16.20 – 16.40 | Invited Lecturer: Prof. Dr. Ivan SALAMON  
University of Presov, Faculty of Humanities and Natural Science,  
Department of Ecology, 01, 17th November St., 081 16, Presov – SLOVAKIA  
Title: "Active Substances Accumulation of Chamomile Varieties Under Growing Condition in Chullcuisa, Peru" |                                                                                                 |                                                                                                |
| 16.40 – 17.00 | Invited Lecturer: Prof. Dr. Srivinasa Rao MENTREDDY  
Department of Biological and Environmental Sciences, University of  
Alabama A&M – USA  
Title: "Low-Temperature Plasma Promotes Early Sprouting and Increases Plant Growth and Yield of Turmeric (Curcuma longa)" |                                                                                                 |                                                                                                |
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<th>Time</th>
<th>Invited Lecturer: Prof. Dr. Monica HANCIANU</th>
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<td>17.00 – 17.20</td>
<td>Department of Pharmacognosy, Faculty of Pharmacy, “Grigore T. Popa” University of Medicine and Pharmacy, Iasi – ROMANIA</td>
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<td>Ana Flavia Burlec, Łukasz Pecio, Cornelia Mircea, Andreia Corciovă, Liliana Vereştiiuc, Oana Cioancă, Wiesław Oleszek, Monica Hăncianu</td>
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<td>Title: &quot;Chemical Profile, Antioxidant Activity and Cytotoxicity Assessment of <em>Tagetes erecta</em> Fractions&quot;</td>
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<td>17.20 – 17.40</td>
<td>Invited Lecturer: Prof. Dr. Salvatore La BELLA</td>
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<td>Department of Agricultural, Food and Forest Sciences University of Palermo - ITALY</td>
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<td></td>
<td>Title: &quot;Agronomical and Chemical Characterization of Some Species of Aromatic and Medicinal Plants from Sicily, Italy&quot;</td>
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<td>17.40 – 18.00</td>
<td>Invited Lecturer: Prof. Dr. Biljana BAUER</td>
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<td>Faculty of Pharmacy, University of Ss Cyril and Methodius, Majka Tereza No 47, 1000, Skopje - REPUBLIC OF MACEDONIA</td>
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<td>Title: &quot;Investigation of Preparations Obtained from <em>Juglans regia</em> L. From the Folk and Traditional Medicine of Republic of Macedonia&quot;</td>
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<td>Oral Presentations</td>
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<td>09.20 – 10.40</td>
<td>Prevention of Advanced End Glycation Products by the Seed Extracts of <em>Nigella sativa</em>. Prairna Malik, Ahmad Ali*</td>
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<tr>
<td>OP-1</td>
<td>Anti-Diabetic Activity of Commercial Ethanolic Propolis Extracts from Anatolia. Sevgi Kolaylı*, Rabia El Adaouia Taleb, Noureddine Djeblı, Hadjer Chenini, Hüseyin Şahın, Ash Elif Tanoğur Samancı</td>
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<tr>
<td>OP-2</td>
<td>Effect of <em>Lawsonia inermis</em> Ointment on Excisional Wound Healing in Wistar Rats. Kalbaza Ahmed Yassine</td>
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<td>OP-3</td>
<td>Influence of Environmental Factors on Inhibitory Activity Against PSF1 Gene Expression and Habitat Suitability Mapping of <em>Cardiocrinum cordatum</em> (Thunb.) Makino in Chiburijima Island, Japan. Aedla Raju, Doaa H. M. Alsaadi*, Koji Sugimura, Nobuyuki Takakura, Sevgi Gezici, Takashi Watanabe</td>
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| OP-5 | Biologic Assessment of Alcoholic Extracts of *Equisetum pratense*, *Equisetum sylvaticum* and *Equisetum telmateia*: Antioxidant and Neuroprotective Activity  
*Denisa Batîr Marin*, Cornelia Mircea, Lucian Hrițcu, Oana Cioancă, Monica Boev, Andreia Corciova, Răzvan Ștefan Boianiu, Monica Hâncianu |
| OP-6 | Pre-Formulation Study For Nanoemulsion Preparation of Essential Oils for Treatment of Candidiasis  
*Asma Shahbaz*, Yıldız Özalp, Alaa Alghananim, Murat Kartal, Nurten Altanlar, Duygu, Şimşek, Hümeyra Şahin Bektay, Sevgi Gungör |
| **10.40 – 11.00** | **COFFEE BREAK** |
| **SALON B / SESSION – I** |
| **CHAIRS:** Başak Hanedan& Sevgi Gezici |
| **09.20 – 10.40** | **ORAL PRESENTATIONS** |
| **OP-7** | Antioxidant and Phenolic Profile of Mahaleb Plant as a Functional Food  
*Fadime Eryılmaz Pehlivan* |
| **OP-8** | Antioxidant Profile of a Medicinal Halophyte: *Portulaca oleracea* L. Under Saline Conditions  
*Fadime Eryılmaz Pehlivan* |
| **OP-9** | Antioxidant Activities of Some Polyphenolic Extracted from *Marrubium vulgare* Leaves from Algeria  
*Chabha Sehaki*, Farida Fernane, Ouarda Talbi |
| OP-10 | The Effects of *Tribulus terrestris*, *Avena sativa* and White Ginseng on Adiponectin, Leptin, Resistin, Fatty Acid Binding Protein 4, Homocysteine and Paraoxonase-1 Levels in Hypercholesterolemic Rats Ahmet Nalbant, Ali Bilgili, Başak Hanedan*, Mehmet Akdoğan |
| OP-11 | The Anatomical and Palynological Characteristics of Medicinal Plant Species of *Echinophora* L. (Apiaceae) Burcu Yılmaz Çitak* |
| OP-12 | The Effect of Phosphorus and Zinc Fertilization on Lycorine and Galantamine Accumulation in Giantsnowdrop Ebüru Batı Ay*, Şevket Metin Kara, Melek Güllü, Muhammed Akif Açıklgöz |
| 10.40 – 11.00 | COFFEE BREAK |

**SALON A / SESSION – VI**

**CHAIRS:** Violina Angelova & Narin Sadıkoğlu

| 11.00 – 12.20 | ORAL PRESENTATIONS |
| OP-13 | Heavy Metal Accumulation and Chemical Composition of Essential Oil of *Juniperus oxycedrus* L. (Cupressaceae) Grown on Serpentine Soils in Bulgaria Violina Angelova* |
| OP-14 | Heavy Metal Accumulation and Chemical Composition of Essential Oils of Basil (*Ocimum basilicum* L.) Cultivated on Heavy Metal Contaminated Soils Violina Angelova* |
| OP-15 | Phytochemical Analysis and Habitat Suitability Mapping of *Glycyrrhiza glabra* L. Collected in the Hatay Region of Turkey  
*Doaa H. M. Alsaadi*, Raju Aedla, Ken Kusakari, Faruk Karahan, Nazim Sekeroglu, Takashi Watanabe |
| OP-16 | New Dichotomous Identification Key for Turkish Lamiaceae Genera  
*Narin Sadikoğlu* |
| OP-17 | Potential Applications of Plant Lectins Against SARS-COV-2  
*Murat Pekmez* |
| OP-18 | Investigation on Effects of Ontogenetic Variations of Maritime Pine (*Pinus pinaster* Ait.) on Volatile Components  
*Mehmet Kurtca, Ibrahim Tumen* |
| 12.20 – 13.00 | LUNCH |

**SALON B / SESSION – II**

**CHAIRS:** Ayşe Betül Avcı & Hayrettin Ozan Gülcen

| 11.00 – 12.20 | ORAL PRESENTATIONS |
| OP-19 | Medicinal and Aromatic Plants as a Source of Antioxidant during COVID-19 Period  
*Ayşen Betül Avcı*, R. Refika Akçalı Giachino |
| OP-20 | Computational Botany – A Review  
*Diana-Mihaela Dumitraşcu* |
| OP-21 | Quality Characteristics of Some Essential Oil Plants Grown Under Conventional and Organic Farming Conditions  
Ünal Karık*, Murat Tunçtürk, Orçun Çınar |
| OP-22 | Diverse Biological Actions of Urolithins, the Metabolites of Ellagitannin Metabolism  
Hayrettin Ozan Gülcan* |
| OP-23 | Natural and Synthetic Urolithin Analogues as Multi-Target Ligands for the Treatment of Alzheimer’s Disease  
Hayrettin Ozan Gülcan* |
| OP-24 | The Effects of Different Nitrogen Fertilizer Applications on the Essential Oil Components and Chlorophyll Contents of Oregano (Origanum vulgare Subsp. hirtum)  
İşın Kocabaş Oğuz*, Kerem Palancı, İbrahim Aydın Kılınç |
| 12.20 – 13.00 | LUNCH |

| SALON A / SESSION – VII |
| CHAIRS: Teresa Tuttolomondo & Meryem Bozkurt |

| 13.00 – 14.20 | ORAL PRESENTATIONS |
| OP-25 | Adjuvant Potential of Plant Extracts in Sheep Vaccinated Against Clostridia Șandru Carmen Dana*, Pojar Petru, Niculae Mihaela, Pall Emove, Cerbu C., Vasiu A., Olah Diana, Spînu Marina |
| OP-26 | Wild Aromatic and Medicinal Plants Used in The Mountainous Areas of Sicily (Italy) – A Comparison  
Teresa Tuttolomondo*, Giuseppe Virga |
| OP-27  | Kilis Yağlık Virgin Olive Oil: A Novel Source for Omega-7 Fatty Acids, Especially Paullinic Acid  
*Nazim Sekeroglu*, İsmail Erdoğan, Sevgi Gezici |
|-----|-------------------------------------------------------------------------------------------------------------------------------------|
| OP-28 | Comparative Analysis of Total Phenolics, Flavonoids and Antioxidant Potential of Methanol and Acetone Extracts of *Sideritis niveotomentosa* Hub. -Mor.  
*Ela Nur Şimşek Sezer*, Tuna Uysal |
| OP-29 | The Karyotype Analyses in Subtaxa of *Centaurea pseudoscabiosa* from Turkey  
*Meryem Bozkurt* |
| OP-30 | Effects of Fermentation on Antioxidant Activity of Plant-Based Milk Substitutes  
*Zehra Mertdinc*, Elif Feyza Aydar*, Beraat Öğçelik |
| 14.20 – 14.40 | COFFEE BREAK |
|  | **SALON B / SESSION – III** |
|  | **CHAIRS:** Rüveyde Tunçtürk & Esin Poyrazoğlu Çoban |
| 13.00 – 14.20 | **ORAL PRESENTATIONS** |
| OP-31 | A Study on the Cultivation and Adaptation of *Stevia rebaudiana bertoni* Plant to Antalya Conditions  
*Ahu Cinar*, Safinaz Elmasulu, Arzu Bayir Yegin, Orcun Cinar |
| OP-32 | Antimicrobial Properties of the Seed Extracts of *Ceratonia siliqua* L. and *Olea europaea* L.  
*Esin Poyrazoğlu Çoban*, Zeynep Burcu Bayrak, Makbule Bezek, H. Halil Bıyık |
| OP-33 | Effects of the Seed Extracts of *Vitis vinifera* L. and *Gossypium hirsutum* L. on Some Microorganisms  
*Esin Poyrazoğlu Çoban*, Zeynep Burcu Bayrak, Makbule Bezek, H. Halil Bıyık |
| OP-34 | Wormwood Polyphenol Extract Mediated Remediation of Mitochondrial DNA (MtDNA) Oxidation and Neurotoxicity Induced by Mercury | Nouria Hallal*, Imène Benyettou, Omar Kharoubi, Sevgi Gezici |
| OP-35 | The Effect of Salt and Drought Stress on Germination and Early Seedling Growth of Lavandula stoechas Linn. Seeds | Safinaz Elmasulu*, Ahu Çinar, Işın Kocabaş Oğuz, Mehmet Arslan |
| OP-36 | The Mineral and Heavy Metal Contents of Wild Medicinal Plant Taraxacum scaturiginosum G. E. Haglund Growing in Van City | Rüveyde Tunçtürk*, Lütfi Nohutçu, Ezelhan Şelem, Ünal Karik, Murat Tunçtürk |
| 14.20 – 14.40 | COFFEE BREAK |
| 14.40 – 16.00 | ORAL PRESENTATIONS |
| OP-37 | Assessment of Wound Healing Activity of Ethanolic Extracts of Pistacia lentiscus L. Leaves and Quercus ilex L. Bark in Full Thickness Skin Excision in Rats | Doukani Koula*, Hemida Houari, Zitouni Abdelkader, Miloud Brahim, Beggar Houcine, Bouhenni Hasna |
| OP-38 | Ethnobotanical Study of Medicinal Plants in Ain Antar Forest (North-Western of Algeria) | Hallal Nouria*, Dehli Aidda, Hammar Akila, Belhaouas Linda, Benyettou Imène, Kharoubi Omar |
| OP-39 | Preformulation Study of Nanoemulsion Preparation Based on Essential Oils for Wound Healing  
_Abdulkader Rawas*, Yıldız Özalp, Alaa Alghananım, Murat Kartal, Nurten Altanlar, Duygu Şimşek, Hümeýra Şahin Bektay, Yıldız Erginer |
| OP-40 | Standardization Studies on Silver Lime (_Tilia tomentosa_ Moench.) Used as A Traditional Medicine in Turkey  
_Etil Güzelmeric*, Parla Isıl Yuksel, Gizem Bulut, Erdem Yesilada |
| OP-41 | Prospective _Crataegus_ Species from Libya and Northern Cyprus for Production of Herbal Medicine  
_Najat Agiel*, Jude Caleb, Ali Hikmet Meriçli, Usama Alshana, Filiz Meriçli |
| OP-42 | Bioactive Compounds, Antioxidant and Ace-Inhibitory Activities of _Hippophae rhamnoides_ Plants and _In-vitro_ Bioaccessibility Studies  
_Eda Sensu*, Mine Gültekin-Özgüven, Beraat Özçelik |

16.00 – 16.20 COFFEE BREAK

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**SALON B / SESSION – IV**

**CHAIRS:** Murat Tunçtürk & Elizabeth Paitan

14.40 – 16.00 ORAL PRESENTATIONS

OP-43 In-Vitro Antimicrobial Activities of Some Bee Products  
_Aşlı Elif Tanuğur Samancı*, Taylan Samancı, Sevgi Kolaylı_
| OP-44 | Investigation of Antioxidant Properties of Propolis Products from The World Market | Aslı Elif Tanuğur Samancı*, Taylan Samancı, Esra Çapanoğlu Güven |
| OP-45 | Significance of Seed Coat Morphology in Some *Isatis* (Brassicaceae) Taxa | Emrah Şirin*, Kuddisi Ertuğrul |
| OP-46 | Evaluation of Antibacterial and wound healing Activities of the Combination of *Foeniculum vulgare*, *Cinnamomum verum*, and *Syzygium aromaticum* Essential Oils in Diabetic Septic Wounds | Samah Awad AbduRahim*, Bahaeldin K. Elamin, Mariam Atif Salaheldin, Loai Osman AbdIlmaroof, Nariman Osman, Hisham Ishaq, Aisha Zoheir Almagboul |
| OP-48 | Inactivation of *K. pneumoniae* and *S. aureus* pathogens inoculated to rice by *Laurus nobilis* and *Thymbra spicata* essential oil | Nadire Pelin Bahadırlı*, Elif Ayşe Erdoğan Eliuz |

<p>| 16.00 – 16.20 | COFFEE BREAK |</p>
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<th>16.20 – 17.40</th>
<th>ORAL PRESENTATIONS</th>
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| **OP-49**    | Characterization and Evaluation of Phenolic Compounds of Blackberry Pulp Wild (Rubus Sp.) from the District of Tintay Punco Vraem - Huancavelica - Perú  
Elizabeth Paitan*, Fredy Yabar, Vilma Reyes, Clara Espinoza, Doris Marmolejo, Shalin Cahuallanqui, Alejandrina Sotelo |
| **OP-50**    | Chemical Composition and Antibacterial Activity of the Essential Oil of Salvia sagittata Ruiz & Pav  
Shalin Carhuallanqui Avila*, Giancarlo Ponce Porras, Elizabeth Paitan Anticona, Edson Hilmer Julca Marcelo, Alejandrina Sotelo Mendez, Edgar Norabuena Meza |
| **OP-51**    | Chemical Composition and Antibacterial Activity of Pacha Muña Essential Oil (Hedeoma mandoniana wedd) Extracted by Supercritical Fluids  
Shalin Carhuallanqui Avila*, Renzo Huaman Espinoza, Olivarez Zavala Benjamin, Elizabeth Paitan Anticona, Edson Hilmer Julca Marcelo, Alejandrina Sotelo Mendez, Edgar Norabuena Meza |
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Juliana Cristina dos Santos Almeida Bastos*, Maira Christina Marques Fonseca, Fernada Barçante Perasoli, Luan Bianchinni Silvestro, Rosana Gonçalves Rodrigues-das-Dôres, Gustavo Henrique Bianco de Souza, Orlando David Henrique dos Santos |
<p>| OP-53 | Study and Rational Use Medicinal Plants in Conditions of Apsheron T.S.Mammadov*, Sh.A.Gulmammadova |
| OP-54 | Research on Cancer Prevention Capacities of Olive Stones as a Potential Candidate for Matrix Metalloproteinase Inhibitors Nazım Şekeroğlu, Sevgi Gezici*, Takashi Watanabe |
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