



Programme

SUNDAY 4 December 2022

18:30	Registration
18:30	Welcome Reception at the Conference Centre

MONDAY 5 December 2022

08:30-09:00	Registration
09:00-09:30	<p>Chairs: Panos Kalaitzis, Vincenzo Fersino</p> <p>Welcome Addresses</p> <p>George Baourakis, Director of MAICH Placido Plaza, General Secretary of CIHEAM</p> <p>Thaer Yaseen, FAO Regional Office for the Near East and North Africa Giuseppe Provenzano, Union for the Mediterranean (UfM) Michele Bozzano, European Forest Institute Mediterranean Region Office (EFIMED)</p>
9:30-9:55	<p>Thematic Session 1: Biotechnological approaches to increasing crop productivity Keynote Speaker</p> <p><i>How advanced genomics approaches bring fleshy fruit research from dogma to paradigm shifts</i> Mondher Bouzayen INP-ENSA Toulouse, Genomics and Biotechnology of Fruit group, France</p>
9:55-10:05	<p><i>Assessment of wild tuber-bearing Solanum species for de novo domestication by CRISPR-Cas9 editing</i> Aristotelis Azariadis Dpt: of Agroecology - Crop Genetics & Biotechnology, Aarhus University, Denmark</p>
10:05-10:15	<p><i>Mechanical stress perceived by woody roots: status quo and perspectives</i> Mohamed Kouhen Department of Bioscience and Territory, University of Molise, Italy</p>
10:15-10:25	<p><i>n-Tomatomics: Development of novel Greek tomato varieties using next generation tools</i> Petroula Gemeliari Department of Horticultural Genetics & Biotechnology, Mediterranean Agricultural Institution of Chania, Greece</p>
10:25-10:35	<p><i>Experience from a network-based analysis for identification of pivotal genes involved in asymmetric root response to mechanical constrains</i> Anastazija Dimitrova Department of Bioscience and Territory, University of Molise, Italy</p>
10:35-10:45	<p><i>Hyperspectral Vegetation Indices to Assess Water and Nitrogen Status of Sweet Maize Crop</i> Milica Colovic CIHEAM, Bari, Italy</p>
10:45-10:55	<p><i>Whole genome scanning of a Mediterranean basin hotspot collection provide new insights into olive biodiversity and domestication</i> Christos Bazakos ELGO-Dimitra, Greece</p>

10:55-11:05	Combining Field Experiments and Modeling for a No Harm Irrigation Management with Treated Wastewater: Case Studies from Jordan and Palestine Rodolphe Aziz CIHEAM, Bari, Italy
11:05-11:15	Response of prolyl 4 hydroxylases, Arabinogalactan proteins 2 and homogalacturonans content under long salinity stress in four olive cultivars Eleftheria Figgou Department of Horticultural Genetics & Biotechnology, Mediterranean Agricultural Institution of Chania, Greece
11:15-11:55	Coffee Break
11:55-12:20	Keynote Speaker Exploring Greek Cistus creticus Genotypes Biodiversity for High Producer Clones Rich in Bioactive Compounds Angelos Kanellis Group of Biotechnology, Dept Pharmaceutical Sciences, Aristotle University of Thessaloniki, Greece
12:20-12:30	Over-expression lines of P4H3 in tomato fruit development and abscission Dimitris Kaloudas Department of Horticultural Genetics & Biotechnology, Mediterranean Agricultural Institution of Chania, Greece
12:30-12:40	In vitro regeneration and mass multiplication of Spathiphyllum wallisii Imane Boudadi (Online) Laboratory of Biotechnology and Valorization of Natural Resources, Faculty of Sciences, Ibn Zohr University, Agadir, Morocco
12:40-12:50	Saffron flower 'Crocus sativus L' as antioxidant, antimicrobial and natural dye: From waste to biotechnological applications Khadija Lachguer (Online) Laboratory of Biotechnology and Valorization of Natural Resources, Faculty of Sciences of Agadir, Department of Biology, Ibn Zohr University, Morocco
12:50-13:00	Mediterranean barley landraces: genetic diversity and adaptation Francesco Montardit-Tarda Departamento de Fisiología Vegetal, Facultad de Ciencias, Universidad de Granada, Spain
13:00-13:10	Medicago truncatula endophytic bacteria: genome mining and plant bioprotection activities Manel Chaouachi (Online) Laboratory of Bioactive Substances, Center of Biotechnology of Borj Cedria, Tunisia
13:10-13:30	Awards Ceremony: Best MSc THESIS Prize and YOUTH INNOVATION AWARD Introduction by the Secretary General, Mr Placido PLAZA Intervention by Lamiae Ghaouti, President of the CIHEAM Advisory Board (on line) Best MSc Thesis Award ceremony: Awarded by the Director of CIHEAM Zaragoza, Mr Raul COMPES Intervention of the winner, Mrs Yasmin MUHAMMED Youth Innovation Award ceremony: Awarded by the Director of CIHEAM Chania, Mr George Baourakis Intervention of the winner, Mr Ezzudeen ESAIWI
13:30-14:30	Lunch
14:30-14:55	Thematic Session 2: Tools and strategies to improve efficiency, nutritional value, health and sustainability in agrofood system Chairs: Mondher Bouzayen, Maroun El Moujabber Keynote Speaker Trends, prospects and challenges in the production of functional food products for meeting specific industry's interests and consumers' needs Kostas Biliaderis Food Chemistry & Physical Chemistry Lab - Food Science & Technology Dept, Aristotle University of Thessaloniki, Greece
14:55-15:05	A 3D imaging approach for characterizing and detecting tomato fruit variation Kostas Blazakis Department of Horticultural Genetics & Biotechnology, Mediterranean Agricultural Institution of Chania, Greece
15:05-15:15	Assessment of Technological and sensory stability of improved am formula based on Moroccan clementine (Citrus clementina) fruit Hanane Azzouzi Agro-food Technology and Quality Laboratory, Regional Center of Agricultural Research of Tadla, National Institute of Agricultural Research (INRA), Morocco
15:15-15:25	UV-Visible spectroscopy combined with chemometric tools, as a green fingerprint analytical approach for controlling Moroccan honey adulteration Safaa Lahbabi Hassan II Institute of Agronomy and Veterinary Medicine, Department of Food Science and Nutrition, Laboratory of Biotechnology and Biotransformations, Morocco

15:25-15:35	Intervarietal differences in composition and physicochemical properties of Greek tomato cultivars Sofia Dampila Laboratory of Food Chemistry and Biochemistry, School of Agriculture, Aristotle University of Thessaloniki (AUTH), Greece
15:35-15:45	Analysis of Pyrrolizidine Alkaloids in Food Ioannis Kyziropoulos TUV AUSTRIA- FOOD ALLERGENS LAB, Greece
15:45-15:55	Effect of Lights Spectrum on Antioxidants Production as A Natural Hepatoprotective Agent from Chicory Cultivars Alaa Marzouk National Research Center, Egypt
15:55-16:05	Developing a Decision Support Tool for sustainable viticulture: Insights on the agroecological assessment of practices in Cretan vineyards Sotirios Pilafidis Laboratory of Physico-Chemical and Biotechnological Valorization of Food By-Products, Department of Food Science & Nutrition, School of Environment, University of the Aegean, Greece
16:05-16:15	Recovery of oleuropein-rich extracts from "Picholine Marocaine" olive leaves by using maceration and advanced extraction techniques Salah Chaji Laboratory of Food and Food By-Products Chemistry and Processing Technology, National School of Agriculture in Meknès, Morocco and Laboratory of Bioprocess and Bio-interfaces, Faculty of Science and Techniques, University Sultan Moulay Slimane, Beni-Mellal, Morocco
16:15-16:25	Rationalizing irrigation for improving durum wheat performance under semi-arid conditions Houda Mazhoud (Online) National Institute for Agricultural Research of Tunisia (INRAT)
16:25-17:25	Poster Session

TUESDAY 6 December 2022

09:00-09:25	Chairs: Polydeukis Hatzopoulos, Ramzi Belkhodja Keynote Speaker Diversity of fruit trees in the Levant, between present trends and future challenges Lamis Chalak Head of Plant Production Department, Faculty of Agronomy, The Lebanese University, Beirut Lebanon
09:25-09:35	Beta-glucans production by Pleurotus ostreatus and Morchella esculenta cultivated on various agroresidues under submerged cultures Sotirios Pilafidis Laboratory of Physico-Chemical and Biotechnological Valorization of Food By-Products, Department of Food Science & Nutrition, School of Environment, University of the Aegean, Greece
09:35-09:45	The role of UV-Visible and Mid-Infrared Spectroscopy combined with Chemometrics modeling, as a valuable, sustainable, analytical approach for food quality assessment Safaa Lahbabi Hassan II Institute of Agronomy and Veterinary Medicine, Department of Food Science and Nutrition, Laboratory of Biotechnology and Biotransformations, Morocco
09:45-09:55	Improvement of the phenolic compounds in olive products following the application of bio stimulants facing climate change Imen Zouari Olive Institute, Tunisia
09:55-10:05	Contribution of a Seeded Cover Crop Mixture on Biomass Production and Nutrition Status Compared to Natural Vegetation in a Mediterranean Olive Grove Safiye Tul ELGO-Dimitra, Greece
10:05-10:15	The effect of incorporation of pomegranate bark extract in minced beef on its microbiological, technological, and sensory qualities Loubna Chafki Faculty of Sciences and Techniques, Sultan Moulay Slimane University, Beni Mellal, Morocco
10:15-10:25	Date-Fruit powder as a substitute to added sugar in dairy desserts Naziha Fedala ¹ , Moussa Mokhtari ² 1:Ecole Supérieure des Sciences de l'Aliment et des Industries Agroalimentaires, Algeria 2: URADTE/CRAPC BOUSMAIL Tipaza, Algeria
10:25-10:35	Valorization of citrus sorting rejects to value added products Kawatar Farih Hassan II Institute of Agronomy and Veterinary Medicine, Morocco
10:35-10:45	Study of the evolution of phenolic compounds in tunisian extra virgin olive oils under different impacting conditions Ben Ahmed Mariem (Online) Laboratory of Integrated Olive Production, Olive Institute, Specialized Unit, Tunisia

10:45-11:05	Coffee Break
11:05-11:35	<p>Thematic Session 3: Genetic resources, pest management and water resource use for sustainable production and climate change resilience Chairs: Lamis Chalak, Angelos Kanellis</p> <p>Keynote Speaker <i>Plant genetic resources: a cornucopia full of traits for future generations</i> Giovanni Giuliano CRC, Italian Agency for New Technologies, Energy and Sustainable Economic Development, Italy</p>
11:35-11:45	<p><i>Integrating agro-ecological practices and smart farming to improve agricultural production and insect pest control</i> Amel Ben Hamouda (Online) Olive Institute, Tunisia</p>
11:45-11:55	<p><i>Pesticide residues levels in some fruits and vegetables from southern areas of Algeria</i> Moussa Mokhtari URADTE/CRAPC BOUSMAIL Tipaza, Algeria</p>
11:55-12:05	<p><i>Management of the prickly pear mealy bug, Dactylopius opuntiae using bio-insecticide in Morocco</i> Rachida El Boullani Laboratory of Biotechnology and Valorization of Natural Resources, Department of Biology, Faculty of Science, Ibn Zohr University, Morocco</p>
12:05-12:15	<p><i>A comparison of two Agrivoltaic Systems to assess their impact on Arugula production (Eruca Vesicaria): a case study in southern Italy</i> Hiba Chebli CIHEAM, Bari, Italy</p>
12:15-12:25	<p><i>Response of nematodes in the Sous- Massa National Park to anthropogenic impact: Agricultural activities as example</i> Obidari Tayeb (Online) Laboratory of Biotechnologies and Valorization of Natural Resources, Faculty of Sciences - Agadir, Ibn Zohr University, Morocco</p>
12:25-12:35	<p><i>Nematodes associated with saffron II: Functional diversity in soil health assessment and impact of agricultural practices</i> Hinde Benjlil (Online) Laboratory of Biotechnologies and Valorization of Natural Resources, Faculty of Sciences, Ibn Zohr University, Morocco</p>
12:35-12:45	<p><i>Volatiles of Capsicum spp: Dried Fruits as Attractants for Lasioderma serricorne F: (Coleoptera: Anobiidae)</i> Mokhtar Arif (Online) Plant Protection Directorate, Ministry of Agriculture, Iraq</p>
12:45-13:10	Poster Session
13:10-14:20	Lunch
14:20-14:30	<p><i>Olive tree water use efficiency under Tunisian abiotic stresses conditions (drought and salinity)</i> Olfa Boussadia Olive Institute, Tunisia</p>
14:30-14:40	<p><i>Impact of overexploitation of groundwater resources on the resilience of agricultural systems in a rural area</i> Nour Nsiri CIHEAM, Montpellier, France</p>
14:40-14:50	<p><i>Effect of mother corm genotype and planting site environment on vegetative propagation of Moroccan saffron (Crocus sativus)</i> Mohamed Ben El Caid (Online) LBVRN, Faculty of sciences, Ibn Zohr University, Agadir, Morocco</p>
14:50-15:20	Coffee Break
15:20-15:45	<p>Chairs: Giovanni Giuliano, Ioannis Gitas</p> <p>Keynote Speaker <i>Exploring and generating diversity for tomato fruit quality</i> Antonio Granel Plant Biology and Biotechnology Lab, Consejo Superior de Investigaciones Cientificas, Spain</p>
15:45-15:55	<p><i>OliveID-A computational tool for olive cultivar identification</i> Kostas Blazakis Department of Horticultural Genetics & Biotechnology, Mediterranean Agricultural Institution of Chania, Greece</p>
15:55-16:05	<p><i>Impact of climate change on the behavioral of Purple scale (Lepidosaphes beckii) and its parasitoids of the Genus Aphytis in Algeria</i> Yasmina Agagna Zoologie agricole et forestière, Ecole National Supérieure Agronomique, Algeria</p>

16:05-16:15	Evaluation of the genetic diversity of an ex-situ collection of cherry trees (<i>Prunus avium</i>) using pomological and physiochemical descriptors Zahra El Kettabi (Online) Agro-food Technology and Quality Laboratory, Regional Center of Agricultural Research of Tadla, National Institute of Agricultural Research, Morocco
16:15-16:30	Coffee Break
16:30-16:40	Morphological adaptation strategies of the purple scale <i>L. beckii</i> (Homoptera: Diaspididae) Ibtissem Beloued Zoologie, Agricole et Forestière, Ecole Nationale Supérieure Agronomique, Algeria
16:40-16:50	Contribution of Seeded Cover crops to Climate Change Mitigation and Nutrient Retention in Tunisian Olive groves along a north-south gradient Fadoua Elhaddad University of JAEN, Spain - University of Monastir, Tunisia
16:50-17:00	Domestication of Desert Plant Species in light of Climate Change Hafsa Debbagh-Nour African Sustainable Agriculture Research Institute - UM6P, Laâyoune
17:00-17:10	Effect of Red and Blue Light on Hepatoprotective agents of <i>Cichorium endive</i> Supp: <i>Pumillum</i> "Egyptian Chicory" as Anti-candida Alaa Marzouk National Research Center, Egypt
17:10-17:20	Effect of abiotic stress on seed germination behavior of some endemic aromatic and medicinal plants of Morocco Hanane Oublid (Online) Laboratory of Biotechnologies and Valorization of Natural Resources, IBN ZOHR University, Morocco
17:20-17:30	The Value of FHB Resistance and Other Varietal Characteristics to Saskatchewan HRS Wheat Producers Lampros Nikolaos Maros (Online) Agricultural & Resource Economics, University of Saskatchewan, Canada
17:30-18:30	Poster Session

20:00-24:00	GALA DINNER & LIVE MUSIC at Conference Centre
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WEDNESDAY 7 December 2022	
09:00-09:25	Thematic Session 4: Agricultural and agroforestry innovations and technologies Chairs: Antonio Grannel, Chariton Kalaitzidis Keynote Speaker <i>The beauty of Plant Metabolism to adjust tailor-made production</i> Polydeukis Hatzopoulos Laboratory of Molecular Biology, Dept Biotechnology, Agricultural University of Athens, Greece
09:25-09:35	Olive agroforestry and soil chemical properties drive the linkages between rhizospheric microbial community of cereal or legume in the South Mediterranean Ameni Ben Zineb Laboratory of Plant Molecular Physiology, Centre of Biotechnology of Borj-Cedria, Tunisia
09:35-09:45	Spectral Phenotype Mapping with a Novel Handheld Spectral Imager Koutalonis Ioannis 2QCELL, Chania, Greece
09:45-09:55	A holistic scheme for shaping sustainable and digital agriculture, forestry, livestock, and rural development: The Horizon Europe CHAMELEON Project Nikolaos Sifakis Technical University of Crete, Greece
09:55-10:05	Influence of Different lights sources on the Biochemical composition of <i>Arthrospira</i> spp: Grown in model systems Massimo Milia (Online) Food Toxicology Unit, Department of Life and Environmental Science, University of Cagliari, Italy
10:05-10:15	Monitoring woody plant expansion with remote sensing to support grassland ecosystem health and management Irimi Soubry (Online) Department of Geography and Planning, University of Saskatchewan, Canada
10:15-10:45	Coffee Break

10:45-11:10	<p style="text-align: center;">Keynote Speaker</p> <p style="text-align: center;">EO Applications in EU-Mediterranean Forest Fire Management</p> <p style="text-align: center;">Ioannis Gitas</p> <p style="text-align: center;">Forest Management and Remote Sensing, School of Forestry & Natural Environment, Aristotle University of Thessaloniki, Greece</p>
11:10-11:20	<p><i>In vitro inhibition of fungi causing postharvest green and blue mold of citrus fruits by agricultural by-products extracts</i></p> <p>Ricardo Lima De Souza Centro de Tecnología Poscosecha (CTP) - Instituto Valenciano de Investigaciones Agrarias (IVIA), Spain</p>
11:20-11:30	<p>Collective and contextualized strategies to promote resilient and sustainable agricultural production in Lebanon</p> <p>Rim Alamin CIHEAM, Montpellier, France</p>
11:30-11:40	<p><i>Single-tree biomass estimation using Multispectral LiDAR data in a sustainable managed coniferous forest</i></p> <p>Antoniadis Konstantinos Laboratory of Forest Management and Remote Sensing, School of Forestry and Natural Environment, Aristotle University of Thessaloniki</p>
11:40-11:50	<p><i>Durum Wheat Natural Mycorrhization and Mineral Contents during Tillering Stage as Influenced by Tillage Practices and Cultivation Season under Rainfed Conditions</i></p> <p>Chaieb Nadia Regional Research Centre on Horticulture and Organic Farming, Tunisia</p>
11:50-12:00	<p><i>A benchmarking framework of optimized sustainability paths suited to local agri-food clusters in the Mediterranean region</i></p> <p>Reem El Khechen CIHEAM, Montpellier, France</p>
12:00-12:10	<p><i>Multi-Criteria Analysis of on-farm climate change adaptation strategies in Egypt</i></p> <p>Emirjona Kertolli CIHEAM, Montpellier, France</p>
12:10-12:20	<p><i>Bacterial cellulose production by a newly isolated Komagataeibacter rhaeticus strain valorizing waste streams derived from the brewery industry</i></p> <p>Tsouko Erminta (Online) Laboratory of Physico-Chemical and Biotechnological Valorization of Food By-Products, Department of Food Science & Nutrition, School of Environment, University of the Aegean, Greece</p>
12:20-12:30	<p><i>Biochar can enhance tomato yield and fruit quality through the amelioration of growing medium characteristics</i></p> <p>Melissa Simiele (Online) Department of Biosciences and Territory, University of Molise, Italy</p>
12:30-12:40	<p><i>Reusing reclaimed water for irrigation: Sustainability solution to improve the availability of water resources and contribute to an efficient use of water resources?</i></p> <p>Arfa Imen CEIGRAM Research Centre for the Management of Agricultural and Environmental Risks, Universidad Politécnica de Madrid, Spain</p>
12:40-12:55	<p>GENERAL DISCUSSION AND CONCLUSIONS</p>

PARTNERS



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