



Climate Changing Agriculture



Climate Changing Agriculture

International Conference

29 August – 2 September, 2017

CHANIA GREECE

Delegate Programme Booklet



With the contribution of the LIFE + financial instrument of the European Union to the project "OLIVECLIMA-Introduction of new olive crop management practices focused on climate change mitigation and adaptation"



Climate Changing Agriculture



Dear Colleagues,

During the past year, a group of devoted people worked hard and with great enthusiasm to prepare this event and welcome you in Chania, Greece for the International Conference "Climate Changing Agriculture". On behalf of all involved team mates I would like to express my pleasure for meeting you, having the chance to be informed of your research achievements and exchange views for climate change mitigation and adaptation.

This international conference is one of the final deliverables of oLIVE-CLIMA project. The oLIVE-CLIMA project (LIFE 11 ENV/GR/942), "Introduction of new oLIVE crop management practices focused on CLIMAtE change mitigation and adaptation" (oLIVE-CLIMA) is funded by 50% by the financial instrument Life + of the European Union and has a total budget of 3.649.373 € (EU contribution 1.822.436 €). It was launched in October 2012 and will be completed in September 2017. The project partners are the following: Development Agency of Eastern Thessaloniki's Local Authorities-ANATOLIKI S.A., Institute for Olive Tree, Subtropical Crops and Viticulture HAO DEMETER, Department of Soil Science of Athens HAO DEMETER, Soil and Water Resources Institute Former Land Reclamation Institute HAO DEMETER, University of Basilicata, Rodax Agro E.P.E., AGROTYPOS S.A., NILEAS Farmers Group, Agricultural Cooperatives of Peza, Agricultural Cooperatives of Mirabello.

Many thanks to the LIFE programme for funding as well as all the involved institutions for co-funding and hard work. We wish you all a fruitful participation in the conference and a pleasant stay in Chania.

Kind regards,

Dr. Georgios Koubouris



Conference Organizers

Hellenic Agricultural Organization DEMETER, Institute for Olive, Subtropical Crops & Viticulture, <http://www.nagref-cha.gr/>

CIHEAM, MAI Chania, <http://www.maich.gr/en>

Technical University of Crete, School of Environmental Engineering (ENVENG), <http://www.enveng.tuc.gr/>

Technological Educational Institute of Crete, Department of Environmental and Natural Resources Engineering, <https://www.teicrete.gr/en/tmfp/13754>

With the contribution of the LIFE + financial instrument of the European Union to the project “OLIVECLIMA-Introduction of new olive crop management practices focused on climate change mitigation and adaptation”

Convener:

Dr Georgios Koubouris, Hellenic Agricultural Organization DEMETER, Institute for Olive Tree, Subtropical Crops and Viticulture (IOSV), GR.

Vice-chair and keynote speakers:

Prof Cristos Xiloyannis, University of Basilicata, Italy

Prof Luuk Fleskens, Soil Physics and Land Management Group of Wageningen University and School of Earth and Environment at the University of Leeds, UK.

Prof Mauro Centritto, Consiglio Nazionale delle Ricerche - National Research Council, Italy.

A. Kavadia; M. Omirou; I.M.Ioannides -Agricultural Research Institute, Department of Agrobiotechnology, Cyprus.

Michalopoulos George - RodaxAgro Ltd, Greece.

Organizing Committee

Dr Georgios Koubouris, ELGO DEMETER, Institute for Olive Tree, Subtropical Crops and Viticulture (IOSV), GR

Dr Georgios Psarras, ELGO DEMETER, IOSV, GR

Prof. George Karatzas, Technical University of Crete

Dr Ioannis Livieratos, Mediterranean Agronomic Institute of Chania, GR

Dr George Arampatzis, ELGO DEMETER, Soil and Water Resources Institute (SWRI), GR

Dr Victor Kavvadias, ELGO DEMETER, SWRI), GR

Prof. Nikos Lydakis-Simantiris, TEI of Crete, GR

Mrs Eftichia Kivrakidou, Economist, Project manager OliveClima. “ANATOLIKI” DEVELOP. AGENCY OF EASTERN THESSALONIKI 'S LOCAL AUTHORITIES, GR

Mr Iakovos Sarigiannis, Mechanical Engineer, General Manager, ANATOLIKI, GR

Mrs Konstantia-Anastasia Kasapi, Msc Geologist Ecol. Water Quality, ANATOLIKI, GR

Mr. Christos Karkanias, MSc Environmental Scientist, ANATOLIKI, GR



Scientific Committee

Arampatzis, George, ELGO DEMETER, Soil and Water Resources Institute, GR
Boussadia Olfa, Institut de l'Olivier - Unité spécialisée de Sousse. TUN
Cantini Claudio, IVALSA-CNR, IT
Centritto Mauro, Trees and Timber Institute, National Research Council, IT
Chartzoulakis Kostas, ELGO DEMETER, Institute for Olive Tree, Subtropical Crops and Viticulture (IOSV), GR
Doulis Andreas, ELGO DEMETER, IOSV, GR
Evangelides Chris, Aristotle University of Thessaloniki, Rural and Surveying Engineering, GR
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Kavroulakis Nektarios, ELGO DEMETER, IOSV, GR
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Kouli Maria, TEI of Crete, GR
Kourgialas Nektarios, ELGO DEMETER, IOSV, GR
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Michalopoulos Georgios, RodaxAgro LTD, GR
Montanaro Giuseppe, University of Basilicata, IT
Omirou Michalis, Agricultural Research Institute, CY
Psarras Georgios, ELGO DEMETER, IOSV, GR
Stavroulakis Georgios, TEI of Crete, GR
Tzerakis Kostandinos, ELGO DEMETER, IOSV, GR
Tzortzakos Nikolaos, Cyprus University of Technology, CY
Varikou Kiki, ELGO DEMETER, IOSV, GR
Xiloyannis Cristos, University of Basilicata, IT

Secretarial support

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Conference Center Bureau

Mrs Argyro Zervou or Mrs Katerina Karapataki
Conference Center Bureau of the Mediterranean Agronomic Institute of Chania
Tel: +30 28210 35080, E-mail: confer@maich.gr



Conference overview

Tuesday, 29 August 2017, 19.00-20.00

Welcome drinks reception and registration. MAICh conference center, room "Mediterranee" (<http://confer.maich.gr/halls/index.html#Mediterranee>). The registration desk will remain open throughout the Conference.

Wednesday-Friday, 30 August – 1 September 2017, 09.00-17.00

Scientific sessions. MAICh conference center, room "Aristotle" (<http://confer.maich.gr/halls/index.html#Aristotle>).

All abstracts will be available only in electronic form for downloading at <http://climate2017.eu/>

Saturday, 2 September 2017, 09.00-17.00

Technical Tour. Starting points: MAICh conference center and Chania city center.

We will visit:

1. <http://www.olivemuseumvouves.com/default.aspx?lang=en>
2. <http://biolea.gr/index.php?lang=en>
3. <http://www.terracreta.gr/default.aspx?lang=en#.WZq1OrZLfIU>
4. <http://visitfalassarna.com/>

In Falassarna there will be free time for lunch or coffee on your own expenses.



ORAL PROGRAMME

Wednesday 30th August 2017

Session 1: Crop management for climate change mitigation and adaptation

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| 9:00-11:00 | Session Chairs: S. Theocharopoulos, G. Koubouris and C. Xiloyannis |
| 9:00-9:30 | <p>Opening Remarks</p> <ul style="list-style-type: none"> • Nikos Antonoglou, General Secretary, Ministry for Rural Development and Food • Representatives of Local Authorities • LIFE Oliveclima project coordinator |
| 9:30-10:00 | <p>Keynote speech: Management options contributing to climate change mitigation and resilience improvement in olive groves Xiloyannis Cristos, presenting author (Università degli Studi della Basilicata - DICEM), Tuzio Angelo C. (Università degli Studi della Basilicata - DICEM), Fausto Catia (Università degli Studi della Basilicata - DICEM), Montanaro Giuseppe, corresponding author (Università degli Studi della Basilicata - DICEM)</p> |
| 10:00-10:15 | <p>A comparative estimate of climate change impacts on cotton and maize in Greece Voloudakis Dimitrios, presenting author (Agricultural University of Athens), Karamanos Andreas (Agricultural University of Athens), Economou Garifalia (Agricultural University of Athens), Kapsomenakis John (Research Centre for Atmospheric Physics and Climatology, Academy of Athens), Zerefos Christos (Navarino Environmental Observatory)</p> |
| 10:15-10:30 | <p>Carbon footprint of rainfed and irrigated arable crops under tillage compared to no till & guide assistance Gil-Ribes Jesus A., presenting author (University of Córdoba), Márquez-García Francisco, corresponding author (University of Córdoba), Blanco Gregorio L. (University of Córdoba), González-Sánchez Emilio J. (Spanish Association of Conservation Agriculture)</p> |
| 10:30-10:45 | <p>A tool for adaptation to Climate change Impacts on the Mediterranean islands' Agriculture: LIFE ADAPT2CLIMA Giannakopoulos Christos, presenting author (National Observatory of Athens), Moriondo Marco (CNR-IBIMET), Papadopoulou Maria (National Technical University of Athens), Karali Anna (National Observatory of Athens), Lemesios Giannis (National Observatory of Athens), Papadaskalopoulou Christina (National Technical University of Athens), Varotsos Konstantinos V. (National Observatory of Athens), Brilli Lorenzo (CNR-IBIMET), Charchousi Despoina (National Technical University of Athens).</p> |
| 10:45-11:00 | <p>Effects of addition of organic materials and irrigation conditions on soil quality in olive groves: A case study of the region of Messinia, South West Peloponnese, Greece Kavvadias Victor, presenting author (Hellenic Agricultural Association HAO-DEMETER", Institute of Soil and Water Resources, Department of Soil Science of Athens, ISWR-DSSA), Papadopoulou Maria (HAO-DEMETER, ISWR-DSSA), Vavoulidou Evangelia (HAO-DEMETER, ISWR-DSSA), Theocharopoulos Sideris (HAO-DEMETER, ISWR-DSSA), Repas Spiros (NILEAS-Agricultural Cooperative for Standardized Products - Nestor Messinia (NILEAS), Kokkinos Georgios (NILEAS), Koubouris Georgios (HAO-DEMETER, Institute for Olive Tree, Subtropical Crops & Viticulture IOSV, Agrokipion, Chania, Greece), Psaras Georgios (HAO-DEMETER, IOSV)</p> |
| 11:00-11:30 | Break |



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| 11:30-13:00 | <i>Session Chairs: E. Vavoulidou, G. Psarras and V. Kavvadias</i> |
| 11:30-11:45 | <i>Climate Change Impacts on the Hydrologic Balance and Irrigation Demands for the Region of Crete</i> Nerantzaki Sofia, presenting author (Technical University of Crete, Department of Environmental Engineering), Giannakis George (Technical University of Crete, Department of Environmental Engineering), Efstathiou Dionissis (Technical University of Crete, Department of Environmental Engineering), Nikolaidis Nikolaos (Technical University of Crete, Department of Environmental Engineering), Kritsotakis Marinos (Decentralized Administration of Crete), Tsanis Ioannis (Technical University of Crete, Department of Environmental Engineering), Grillakis Manolis (Technical University of Crete) |
| 11:45-12:00 | <i>Modelling of carbon fluxes and pools between soil, vegetation and atmosphere in crop fields under different agricultural practices</i> Vavlas Nikolaos, Christos, presenting author (Centre for Ecology & Hydrology / University College London), Gomez-Dans Jose (National Centre for Earth Observation (NCEO) / University College London), Williams Mathew (National Centre for Earth Observation (NCEO) / University of Edinburgh) |
| 12:00-12:15 | <i>Impacts of climate change on reservoir management in Crete: the case of Potamon-Amariou Reservoir</i> Papadaki Sofia, presenting author (Technical University of Crete, Department of Environmental Engineering), Nerantzaki Sofia, corresponding author (Technical University of Crete, Department of Environmental Engineering), Nikolaidis Nikolaos (Technical University of Crete, Department of Environmental Engineering) |
| 12:15-12:30 | <i>Effect of different sustainable orchard management strategies on soil properties, nutrient uptake and soil microbiological aspects in an olive orchard</i> Bechara E., Doupis G., Sofo A., Psarras, G., Papafilippaki A., Koubouris G. (Hellenic Agricultural Organization DEMETER, Institute for Olive Tree, Subtropical Crops & Viticulture, Agrokipion, Chania, Greece) |
| 12:30-12:45 | <i>Crop coefficients and water use efficiency in an apple orchard assessed by eddy covariance measurements</i> Damiano Zanotelli, presenting author (Free University of Bolzano-Bozen), Montagnani Leonardo (Free University of Bolzano-Bozen), Andreotti Carlo (Free University of Bolzano-Bozen), Tagliavini Massimo (Free University of Bolzano-Bozen) |
| 12:45-13:00 | <i>Effects of addition of organic materials and irrigation conditions on soil quality in olive groves: A case study of in the region of Merambello, island of Crete, Greece</i> Kavvadias Victor, presenting author (Hellenic Agricultural Association HAO-DEMETER”, Institute of Soil and Water resources, Department of Soil Science of Athens), Papadopoulou Maria (Hellenic Agricultural Association HAO-DEMETER”, Institute of Soil and Water resources, Department of Soil Science of Athens,), Theocharopoulos Sideris (Hellenic Agricultural Association HAO-DEMETER”, Institute of Soil and Water resources, Department of Soil Science of Athens,), Vavoulidou Evangelia (Hellenic Agricultural Association HAO-DEMETER”, Institute of Soil and Water resources, Department of Soil Science of Athens), Malliaraki Stella (Union of Agricultural Cooperatives of Mirabello, Sergaki 2, Neapoli, Lasithi, 72400, Crete, Greece), Agelaki Katerina (Union of Agricultural Cooperatives of Mirabello, Sergaki 2, Neapoli, Lasithi, 72400, Crete, Greece), Koubouris Georgios (Hellenic Agricultural Organization DEMETER, Institute for Olive Tree, Subtropical Crops & Viticulture, Agrokipion, Chania, Greece), Psarras Georgios (Hellenic Agricultural Organization DEMETER, Institute for Olive Tree, Subtropical Crops & Viticulture, Agrokipion, Chania, Greece). |
| 13:00-14:00 | <i>Lunch break</i> |
| 14:00-16:45 | <i>Session Chairs: D. Zanotelli, C. Giannakopoulos and E. Kabourakis</i> |
| 14:00-14:15 | <i>Crop production versus applied water</i> Evangelides Chris, presenting author (Aristotle University of Thessaloniki- AUTH), Arampatzis George (HAO DEMETER), Zormpa Dimitra (AUTH) |
| 14:15-14:30 | <i>Climate change and olive farming. The case of olive growing in different agroecological zones and under different management systems in Crete, Greece.</i> Kabourakis Emmanouil, presenting author (Ecological Production Systems, Institute of Olive Tree, Subtropical Plants and Viticulture, Directorate of Agricultural Research (NAGREF), Hellenic Agricultural Organisation (HAO-DEMETER)), Gkisakis Vasileios |



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| | (Agroecologiki SP), Volakakis Nikolaos, presenting author (Geokomi) |
| 14:30-14:45 | <i>How can agriculture adapt to changing climate conditions? Social perceptions and new practices of farmers, a case study in Southern France</i> ASPE Chantal (Aix Marseille Université / LPED UMR 151), JACQUE Marie (Aix Marseille Université / LPED UMR 151) |
| 14:45-15:00 | <i>Carbon and nutrient distribution across soil profiles in Mediterranean olive forests</i> Theocharopoulos Sideris, presenting author (Hellenic Agricultural Association HAO-DEMETER”, Institute of Soil and Water resources, Department of Soil Science of Athens,), Vavoulidou Evangelia, presenting author (Hellenic Agricultural Association HAO-DEMETER”, Institute of Soil and Water resources, Department of Soil Science of Athens), Kavvadias Victor, corresponding author (Hellenic Agricultural Association HAO-DEMETER”, Institute of Soil and Water resources, Department of Soil Science of Athens), Papadopoulou Maria (Hellenic Agricultural Association HAO-DEMETER”, Institute of Soil and Water resources, Department of Soil Science of Athens), Michalopoulos Georgios (RodaxAgro Ltd) |
| 15:00-15:15 | <i>“Diversify & minimize”: Agroecological approaches for reducing greenhouse gases emissions and increasing resilience of Mediterranean agroecosystems and rural societies</i> Gkisakis Vasileios, presenting author (Sustainable Agriculture dpt, Mediterranean Agronomic Institute of Chania) |
| 15:15-15:30 | <i>Break</i> |
| 15:30-15:45 | <i>Climate change and water resources management in Arab countries</i> El Gayar Attia (Professor of SOIL-WATER MANAGEMENT. Soils, Water & Environment Research Institute) |
| 15:45-16:00 | <i>Description of olive cultivars through morphological parameters by using advanced mathematical algorithms</i> Blazakis Konstantinos (presenting author) (Department of Horticultural Genetics and Biotechnology (H.G.B.), Kosma Maria (H.G.B.), Kostelenos George (Kostelenos Olive Nurseries), Baldoni Luciana (Italian National Research Council, Institute of Biosciences and Bio-Resources (CNR-IBBR), Bufacchi Marina (CNR-, Institute for Agriculture and Forest Systems in the Mediterranean (CNR-ISAFOM), Kalaitzis Panagiotis (corresponding author) (H.G.B.). |
| 16:00-16:15 | <i>Interactions Effect of Cyanobacterial Bioactivities and Nitrogen Fertilizers on N₂O and CO₂ Emissions and Soil Productivity</i> Manal Abd-Allah Hassan El-Gamal, Professor of Microbiology, Agricultural Microbiology Research Department - Soils, Water and Environment Research Institute, (SWERI)-Agricultural Research Center (ARC), Egypt. |
| 16:15-16:30 | <i>The direct and indirect effect of climate change on citrus production in Tunisia: a macro and micro spatial analysis</i> Zouabi Oussama (LAREQUA- University of Tunis El Manar and LEAD-University of Toulon) |
| 16:30-16:45 | <i>Adapting crop management practices to climate change: Opportunities and challenges for climate change adaptation in Pakistan</i> Abid Muhammad, presenting author (Centre for Climate Research & Development, COMSATS Institute of Information Technology, Islamabad) |
| 16:45-17:30 | <i>Networking between LIFE projects</i> |



Thursday 31th August 2017

Session 2: GIS and remote sensing

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| 9:00-12:00 | <i>Session Chairs: M. Centritto, N. Kourgialas and C. Kalaitzidis</i> |
| 9:00-9:30 | Keynote speech: On the use of leaf spectral indices for real-time detection of physiological responses of olive under variable water conditions Centritto Mauro, presenting author (CNR-IVALSA) |
| 9:30-9:45 | Drones for Ship Emissions Monitoring at European Emission Controlled Areas / Sarris Zacharias, presenting author (BUSINESS DEVELOPMENT MANAGER ALTUS LSA) |
| 9:45-10:00 | On-farm Implementation of ICT tools for sustainable irrigation management under climate change / Todorovic Mladen, presenting author (CIHEAM - Mediterranean Agronomic Institute of Bari), Riezzo Erminio (Sysman Progetti & Servizi srl), Galiano Angelo (Dyrecta Lab), Boari Francesca (CNR – Institute of Science of Food Production) |
| 10:00-10:15 | Methods and challenges of remote sensing in climate change impact studies on agriculture / Toullos Leonidas, presenting author (ELGO ‘DEMETER’, Industrial & Forage Crops Institute), Spiliotopoulos Marios (University of Thessaly, Department of Civil Engineering) |
| 10:15-10:30 | Spraying against the olive fruit fly using a Location Aware System (LAS) / Pontikakos Costas (Agricultural University of Athens, Informatics Laboratory, Division of Informatics, Department of Agricultural Economy and Development School of Food, Biotechnology and Development), Perdikis Dionyssios, presenting author (Agricultural University of Athens, Department of Crop Science, Laboratory of Agricultural Zoology & Entomology,), Tsiligiridis Theodore (Agricultural University of Athens, Informatics Laboratory, Division of Informatics, Department of Agricultural Economy and Development School of Food, Biotechnology and Development) |
| 10:30-10:45 | Modeling maize production in limited irrigation conditions for sustainable water use / Jancic Tovjanin Milena. |
| 10:45-11:00 | Water erosion in olive and citrus tree crops under current and future climate conditions Kourgialas Nektarios (presenting author) –H.A.O. “Demeter” - Institute of Olive Tree, Subtropical Crops & Viticulture (I.O.S.V.), Karatzas George -School of Environmental Engineering, Technical University of Crete, Chania, Greece, Koubouris Georgios (I.O.S.V.). |
| 11:00-11:30 | Break |
| 11:30-11:45 | Soil characteristics and nutrient estimation through spectroscopy / Antoniuk, Vita ¹ ; Stamatakis, Aristidis ¹ ; Tzortzakis, Nikolaos ² ; Kalaitzidis, Chariton ¹ . 1Mediterranean Agronomic Institute of Chania, Department of Geoinformation in Environmental Management, 2Cyprus University of Technology, Department of Agricultural Sciences, Biotechnology and Food Science |
| 11:45-12:00 | Contribution to the sustainability of solar photovoltaic irrigation systems: agronomy case study / Đurin Bojan, corresponding author (Faculty of Geotechnical Engineering, University of Zagreb), Lajqi Shpetim, presenting author (Faculty of Mechanical Engineering, University of Prishtina "Hasan Prishtina"), Baić Lucija (Faculty of Geotechnical Engineering, University of Zagreb) |



Session 3: Environmental certification

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| 12:00-13:00 | <i>Session Chairs: Carlos Ruiz, G. Michalopoulos and A. Kavadia</i> |
| 12:00-12:30 | Keynote speech: Measuring environmental performance through agri-products environmental footprint and declaration - The case of Olive Oil / Michalopoulos George (RodaxAgro Ltd), Schau Erwin (European Commission, Joint Research Centre, Dir. D – Sustainable Resources – Bio-Economy), Malliaraki Stella (Union of Agricultural Cooperatives of Merabello), Aggelaki Katerina (Union of Agricultural Cooperatives of Merabello), Giakoumaki Georgia (Union of Agricultural Cooperatives of Peza), Kokkinos Georgios (Nileas Farmers Group, Messinia). |
| 12:30-12:45 | Influence of soil properties and geographic origin on the elemental composition of olive leaves and pomace / Poščić Filip, presenting author (Institute for Adriatic Crops and Karst Reclamation), Mikac Nevenka (Institut Ruđer Bošković), Jukić Špika Maja (Institute for Adriatic Crops and Karst Reclamation), Romić Marija (Faculty of Agronomy, University of Zagreb), Strikić Frane (Institute for Adriatic Crops and Karst Reclamation), Urlič Branimir (Institute for Adriatic Crops and Karst Reclamation), Bačić Niko (Institut Ruđer Bošković), Lučić Mavro (Institut Ruđer Bošković), Runjić Marko (Institute for Adriatic Crops and Karst Reclamation), Fiket Željka (Institut Ruđer Bošković), Klepo Tatjana (Institute for Adriatic Crops and Karst Reclamation), Žanetić Mirella (Institute for Adriatic Crops and Karst Reclamation), Bakić Helena (Faculty of Agronomy, University of Zagreb), Rengel Zed (School of Earth Sciences, The University of Western Australia), Perica Slavko (Institute for Adriatic Crops and Karst Reclamation) |
| 12:45-13:00 | Environmental Impact Assessment of Sustainable Development / Fazalbeygi Mohamadmehdi, corresponding author (Head of department of education. Supreme Council of Provinces) |
| 13:00 | Conference group photo |
| 13:00-14:00 | Lunch break |

Session 4: Natural resources conservation

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| 14:00-16:15 | <i>Session Chairs: G. Karatzas, L. Fleskens and I. M. Ioannides</i> |
| 14:00-14:30 | Keynote speech: Conserving natural resources in a changing agro-environment: practices and policies Luuk Fleskens, Wageningen University and Research |
| 14:30-14:45 | Olive Alive: Toward the design and certification of biodiversity friendly olive groves Gutiérrez Jose Eugenio (SEO/BirdLife), Ruiz Carlos, presenting author (SEO/BirdLife), Cano María (SEO/BirdLife), Rey Pedro J. (University of Jaén), Murgado Eva María (University of Jaén), Valera Francisco (Experimental Station of Arid Zones), Bermúdez Sonia (Diputación de Jaén) |
| 14:45-15:00 | Effects of addition of organic materials and irrigation conditions on soil quality in olive groves: A case study of the region of Peza, Island of Crete, Greece. Kavvadias Victor, presenting author (Hellenic Agricultural Association HAO-DEMETER”, Institute of Soil and Water resources, Department of Soil Science of Athens,), Papadopoulou Maria (Hellenic Agricultural Association HAO-DEMETER”, Institute of Soil and Water resources, Department of Soil Science of Athens), Vavoulidou Evangelia (Hellenic Agricultural Association HAO-DEMETER”, Institute of Soil and Water resources, Department of Soil Science of Athens), Theocharopoulos Sideris (Hellenic Agricultural Association HAO-DEMETER”, Institute of Soil and Water resources, Department of Soil Science of Athens,), Manolaraki Chrisa (Union of Agricultural Cooperatives of Peza (PEZA), Giakoumaki Georgia (Union of Agricultural Cooperatives of Peza (PEZA), Koubouris Georgios (Hellenic |



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| | Agricultural Organization DEMETER, Institute for Olive Tree, Subtropical Crops & Viticulture, Agrokipion, Chania, Greece), Psarras Georgios (Hellenic Agricultural Organization DEMETER, Institute for Olive Tree, Subtropical Crops & Viticulture, Agrokipion, Chania, Greece), Vasiliadis Anestis (Union of Agricultural Cooperatives of Peza (PEZA)) |
| 15:00-15:15 | Assessing biodiversity and its ecosystem services in Andalusian olive orchards through the landscape moderation hypothesis approach / Rey Pedro J., presenting author (Dept. Biología Animal, Biología Vegetal y Ecología. Universidad de Jaén), Valera Francisco (Estación Experimental de Zonas Áridas, EEZA-CSIC), Manzaneda Antonio J. (Dept. Biología Animal, Biología Vegetal y Ecología. Universidad de Jaén.), Alcántara Julio M. (Dept. Biología Animal, Biología Vegetal y Ecología. Universidad de Jaén.), Molina-Pardo José L. (Dept. Biología Animal, Biología Vegetal y Ecología. Universidad de Jaén.), Tarifa Rubén (Estación Experimental de Zonas Áridas, EEZA-CSIC), Isla Jorge (Dept. Biología Animal, Biología Vegetal y Ecología. Universidad de Jaén.), Salido Teresa (Dept. Biología Animal, Biología Vegetal y Ecología. Universidad de Jaén.), Calvo Gemma (Dept. Biología Animal, Biología Vegetal y Ecología. Universidad de Jaén.), Martínez-Núñez Carlos de Jaén.), Ruiz Carlos (Sociedad Española de Ornitología. SEO-BirdLife), Gutiérrez José E. (Sociedad Española de Ornitología. SEO-BirdLife) |
| 15:15-15:30 | Break |
| 15:30-15:45 | Study of Rainfall erosivity estimation, relation with runoff and climate adaptation in Northern Semi-arid Tunisia / BELAID Hechmi (ESIER Tunisia) |
| 15:45-16:00 | The buried diffuser a new efficient technology for olive trees plantations in climate change conditions / Chahbani Bellachheb, presenting author (chahtech SA) |
| 16:00-16:15 | Airborne pollen dynamic in Northern Tunis from 2011 to 2016 Hadj Hamda Sahar, presenting author (National Institute of Agronomy / Olive Tree Institute), Ben Dhiab Ali (Olive Tree Institute), Msallem Monji (Olive Tree Institute) |
| 16:15-17:00 | Stakeholders' workshop: OLIVE – MIRACLE Modelling solutions for improved and resilient management strategies for Olive tree against future climate change Georgios Koubouris, Nektarios Kourgialas, Antonia Zaharouli, Apostolos Voulgarakis, Georgios Doupis, Chrysi Sergeantani, Evangellos Michelakis. Hellenic Agricultural Organization DEMETER, Institute for Olive, Subtropical Crops & Viticulture. |

**Friday 1st September 2017****Session 4: Natural resources conservation**

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| 9:00-11:00 | <i>Session Chairs: M. Doula, M. Omirou and M. Kouli</i> |
| 09:00-09:30 | Keynote speech: Using microbes in a climate changing agriculture: challenges and perspectives / A. Kavadia; M. Omirou; I.M.Ioannides (Agricultural Research Institute, Department of Agrobiotechnology) |
| 09:30-09:45 | LIFE PROSODOL: Strategies and tools developed by capitalizing project's achievements / Doula Maria, corresponding author (Benaki Phytopathological Institute), Sarris Apostolos (Foundation for Research and Technology, Hellas), Komnitsas Konstantinos (Technical University of Crete) |
| 09:45-10:00 | Growing lentils in a changing environment: cultivar selection and phosphorus fertilization as means for earliness / Theologidou Georgia, presenting author (PhD candidate), Baxevanos Demetrios (Researcher), Tsialtas Ioannis, corresponding author (Assistant Professor) |
| 10:00-10:15 | Yield improvement by using biostimulant products in winter wheat managed with No Till / Márquez-García Francisco, presenting author (University of Córdoba), Gil-Ribes Jesus A. (University of Córdoba), González-Sánchez Emilio J. (Spanish Association of Conservation Agriculture), Blanco-Roldán Gregorio L. (University of Córdoba) |
| 10:15-10:30 | Evaluation of land suitability for Olive Mill Waste distribution on soil / Gounela Eleni, presenting author (Agricultural University of Athens), Kolovos Chronis (Benaki Phytopathological Institute), Papadopoulos Antonis, presenting author (Benaki Phytopathological Institute), Doula Maria (Benaki Phytopathological Institute), Theocharopoulos Sid (ELGO DEMETER, Dept. Soil Science of Athens), Kalyvas Dionysis (Agricultural University of Athens) |
| 10:30-10:45 | Seasonal variation effect on essential oil content and composition of <i>Pelargonium graveolens</i> cultivated in Crete, Greece / Lydakiss-Simantiris Nikos (Department of Environmental and Natural Resources Engineering, Technological Education Institute of Crete), Ben Jeddou Khaoula (Mediterranean Agronomic Institute of Chania - MAICh), Jancheva Magdalena (MAICh), Benchennouf Amina (MAICh), Grigorakis Spyros (MAICh). |
| 10:45-11:00 | Optimization of cropping techniques under climate change conditions in Tunisia and its effect on the balance of carbohydrates and the quality of olive oil of the cultivars "Koroneiki" and "Chetoui" Annabi Khouloud, presenting author (Phd student), Van-Labeck Marie-Christine (professor), Ayadi Mohamed (Research Fellow in Food Technology), Laribi ibtissem, corresponding author (Phd. student), Gouta hassouna (Research Fellow), Laabidi fouad (senior technician), Ayachi Mouna (Master of conference), Hannachi Cherif (Higher education professor) |
| 11:00-11:30 | Break |
| 11:30-13:00 | <i>Session Chairs: A. Doulis and G. Doupis</i> |
| 11:30-11:45 | Study of the impact of efficient irrigation by the use of innovative technologies on pomological parameters of olives and physico-chemicals of oils / Grati Kammoun Naziha, presenting author (Institut de l'Olivier) |
| 11:45-12:00 | Ecophysiological and biochemical response of Chemlali and Koroneiki olive tree cultivars under salt stress and gibberellic acid / Moula Ines, presenting author (Olive Tree Institute - Unit of Sousse), Boussadia Olfa (Olive Tree Institute - Unit of Sousse), Ben Hassine Mortadha (Olive Tree Institute - Unit of |



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| | Sousse), Ghariani Wafa (Olive Tree Institute - Unit of Sousse), El Hafi Mariem (Olive Tree Institute - Unit of Sousse), Van Labeke Marie Christine (Faculty of Bioscience Engineering, Ghent University.), Braham Mohamed (Olive Tree Institute - Unit of Sousse) |
| 12:00-12:15 | <i>Durability of the olive tree cultivation in arid conditions under the climate change</i> / Mezghani Ayachi Mouna (Olive Tree Institute), Annabi Khouloud (Olive Tree Institute) |
| 12:15-12:30 | <i>Fingerprinting of Olive (Olea europaea L.) germplasm in Tunisian national collection by using Simple Sequence Repeat markers</i> / Souabni Hana, presenting author (PhD student), Saddoud-Debbabi Olfa (Assistant Professor), Fendri Mahdi (PhD), Triki Mohamed Ali (Master conference), Ben Amar Fathi (Assistant Professor) |
| 12:30-12:45 | <i>Water status and biomass response of two olive tree cultivars under water stress</i> / Ben Hassine Mortadha, presenting author (Olive tree Institute, Unit of Sousse), Boussadia Olfa (Olive tree Institute, Unit of Sousse), Moula Ines, (Olive tree Institute, Unit of Sousse), El Hafi Mariem (Olive tree Institute, Unit of Sousse), Braham Mohamed (Olive tree Institute, Unit of Sousse) |
| 12:45-13:00 | <i>Molecular and Agronomic characteristic of the local Tunisian olive cultivar Sradki</i> / Mnasri Sameh, presenting author (National Gene Bank of Tunisia), Saddoud Debbabi Olfa (National Gene Bank of Tunisia), Ferchichi Ali (National Institute of Agronomy of Tunisia) |
| 13:00-14:00 | <i>Lunch break</i> |
| 14:00-15:00 | <i>Session Chairs: K. Varikou, C. Tzerakis and M. Mathioudakis</i> |
| 14:00-14:15 | <i>Survey of the Fusarium Species Associated to Olive-tree (Olea europaea) in Tunisia</i> / Trabelsi Rahma (Faculty of Sciences of Sfax) |
| 14:15-14:30 | <i>Climate change impacts on agricultural drought across Ankara, Turkey</i> Danandeh Mehr ALI, presenting author (Department of Water Resources Engineering, Faculty of Civil Engineering, University of Tabriz, Iran), Nourani Vahid, presenting author (Department of Water Resources Engineering, Faculty of Civil Engineering, University of Tabriz, Iran), Sharghi Elnaz (Department of Water Resources Engineering, Faculty of Civil Engineering, University of Tabriz, Iran) |
| 14:30-14:45 | <i>An assessment of pan coefficient equations for calculating reference crop evapotranspiration (ET₀) under the humid environment</i> / Pandey Pankaj K., presenting author (NERIST, India) |
| 14:45-15:00 | <i>Inventory of phytopathogenic soilborne fungi causing wilt and die-back disease of olive tree in Tunisia and opportunities for biological control management</i> / Triki Mohamed Ali, presenting author (Olive Tree Institute of Tunisia) |
| 15:00 | <i>End of presentations</i> |



POSTER PROGRAMME

Wednesday 30th August 2017

*Posters should be placed between 09:00-09:30
and presented during the breaks (11:00-11:30 and 15:15-15:30)*

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| 1 | Assessment of soil water content variation patterns in olive trees cultivation Arampatzis George - H.A.O. "Demeter" -, NAGREF, Soil and Water Resources Institute (S.W.R.I.) (Presenting author), Hatzigiannakis Evangelos -(S.W.R.I.), Kourgialas Nektarios - H.A.O. "Demeter", NAGREF – Institute for Olive Tree, Subtropical Crops & Viticulture (I.O.S.V.), Psarras Georgios -(I.O.S.V.), Kinigopoulou Vasiliki -(S.W.R.I.), Panagopoulos Andreas -(S.W.R.I.), Koubouris Georgios -(I.O.S.V.) |
| 2 | Farmer's adaptation measures to changing climate in Karnataka state of India T H Gajendra, (presenting author), Biradar Nagaratna, L. Manjunath, S. Onkarappa, M K Naik –UAHS. |
| 3 | The effect of photo-selective nets on yield and fruit quality of apple cv. Braeburn and peach cv. Suncrest under Croatian agro-climatic conditions Fruk Mladen -University of Zagreb, Faculty of Agriculture (U.Z.) (Presenting author), Jemric Tomislav -(U.Z.), Fruk Goran -(U.Z.), Vukovic Marko -(U.Z.), Buhin Josip -(U.Z.), Jatoi Mushtaque Ahmed -Shah Abdul Latif University, Date Palm Research Institute. |
| 4 | Effect of biological and mineral nitrogen on wheat productivity under newly reclaimed land conditions Abd El-Lattief Essam El-Deen -Agronomy Dept., Faculty of Agriculture, South Valley University, Egypt. |
| 5 | Climate change effects on biochemical compounds and antioxidant activity of Olea europaea cv. Meski Ben Mansour-Gueddes Samia, Saidana Dhouha, Ben Dhiab Ali, Braham Mohamed -Olive Tree Institute. |
| 6 | LIFE-Stymfalia: The nature of business Skouloudaki Katerina -Piraeus Bank. |
| 7 | Soil management in agriculture for climate change mitigation Carbonell-Bojollo Rosa (Presenting author), Ordóñez-Fernández Rafaela, Moreno-García Manuel, Repullo Ruibérriz de Torres Miguel –IFAPA, Area of Agriculture and Environment. |
| 8 | The pH effect on soil selenium's absorption in plant tissues of lettuce (Lactuca sativa L.) and berseem (Trifolium alexandrinum L.), as affected by the application of sodium selenate Tsioumpri Myrto -Agricultural University of Athens. |
| 9 | The olive grove a tool to develop mitigation strategies to climate change Savé Robert –IRTA. |
| 10 | Comparing reference evapotranspiration calculation methods to determine olive trees irrigation schedule in different bioclimatic stage of Tunisia Bchir Amani -Olive Tree Institute, Unit of Sousse (presenting author), Boussadia Olfa -Olive Tree Institute, Unit of Sousse (O.T.I.), Ben Dhiab Ali – (O.T.I.), Lemeur Raoul -Laboratoire |



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| | d'Ecologie des Plantes, Université de Gent, Ben Mariem Fethi -(O.T.I.), Boukhrissa Najet -(O.T.I.), Ghariani Wafa -(O.T.I.), Braham Mohamed -(O.T.I.) |
| 11 | <i>Bioclimatic Assessment Of A Representative Mediterranean Agroecosystem</i> Papadakis Manolis - University of Aegean. |
| 12 | <i>Transpiration modeling and determining the climatic key component of the olive tree in Semi arid Tunisian area</i> Bchir Amani - Olive Tree Institute, Unit of Sousse (O.T.I.) (presenting author), Escalona Lorenzo José - Departamento de Biología, Universidad de las Islas Baleares, Douthe Cyril -Departamento de Biología, Universidad de las Islas Baleares, Boussadia Olfa -(O.T.I.), Ben Dhiab Ali -(O.T.I.), Lemeur Raoul -Laboratoire d'Ecologie des Plantes, Université de Gent, Ben Mariem Fethi -(O.T.I.), Boukhrissa Najet -(O.T.I.), Gariani Wafa -(O.T.I.), Braham Mohamed -(O.T.I.). |
| 13 | <i>The role of the olive tree in the protection against the hydric erosion (the case of the Tunisian sahel)</i> Lahmar Karim -Iseah Mahdia, University of Monastir. |
| 14 | <i>OLIVE – MIRACLE Modelling solutions for improved and resilient management strategies for Olive tree against future climate change</i> Marco Moriondo ¹ , Gianni Fila ² , Michalis Omirou ³ , Luca Testi ⁴ , Georgios Koubouris ⁵ . 1National Research Council, Italy; 2Council for Agricultural Research and Economics, Italy; 3Agricultural Research Institute, Cyprus; 4Universidad de Cordoba, Spain; 5Hellenic Agricultural Organization DEMETER, Greece |

Thursday 31th August 2017

Posters should be placed between 09:00-09:30 and presented during the breaks (11:00-11:30 and 15:15-15:30)

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| 1 | <i>Influence of climatic and bioclimatic parameters on the intensity and chronology of the Olea europaea L. pollen season in Tunisia</i> Ben Dhiab Ali -Olive Tree Institute of Sousse (presenting author), Hadj Hamda Sahar -Institut National Agronomique de Tunisie, Bchir Ameni -Olive Tree Institute of Sousse, BEN MIMOUN Mehdi -Institut National Agronomique de Tunisie, MSALLEM Monji -Olive Tree Institute of Tunis. |
| 2 | <i>Assessing environmentally sensitive areas to desertification – An application in two Mediterranean watersheds</i> Morianou Giasemi (presenting author) –H.A.O. “Demeter” - Institute of Olive Tree, Subtropical Crops & Viticulture (I.O.S.V.), Kourgialas Nektarios (kourgialas@nagref-cha.gr) corresponding author -I.O.S.V., Psarras George - I.O.S.V., Koubouris Georgios -I.O.S.V., Karatzas George -School of Environmental Engineering, Technical University of Crete. |



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| 3 | Different nutrient management strategies reduce soil N₂O emissions in olive orchards M. Omirou ¹ (presenting author), I. Anastopoulos ¹ , E. Christodoulou ² , A. Agapiou ² , I.M. Ioannides ¹ , 1 Agricultural Research Institute, Department of Agrobiotechnology, 2 University of Cyprus, Department of Chemistry |
| 4 | Does the application of post-harvest industry wastes reduce direct soil fluxes of N₂O in organic farming? I.M. Ioannides ¹ -(presenting author), A. Kavadia ¹ , I. Anastopoulos ¹ , M.A. Vasiliades ² , A.M. Efstathiou ² , M. Omirou ¹ ¹ Agricultural Research Institute, Department of Agrobiotechnology, ² University of Cyprus, Department of Chemistry |
| 5 | Carbon sequestration by cover crops in olive orchards Repullo Ruibérriz de Torres Miguel A. (Presenting author), Ordóñez Fernández Rafaela, Moreno García Manuel, Márquez García Javier, Carbonell Bojollo Rosa M. -IFAPA, Area of Agriculture and Environment. |
| 6 | LIFE-Stymfalia: The nature of business Skouloudaki Katerina -Piraeus Bank. |
| 7 | Evaluating water stress in irrigated durum wheat based on remote sensing techniques Mzid Nada - Higher Agronomic Institute of Chott Mariem (presenting author), Todorovic Mladen -Mediterranean Agronomic Institute of Bari, Albrizio Rossella -CNR-ISAFOM, Cantore Vito -CNR-ISP.A. |
| 8 | Ecophysiological response of two olive tree cultivars (<i>Olea europaea</i> L. ‘Chemlali’ and ‘Koroneiki’) under water stress and salt stress Boussadia Olfa -Olive Tree Institute Unit of Sousse. |
| 9 | Survey on orchard management practices applied in two olive growing areas of Crete, as compared to the approach proposed by LIFE AgroClimaWater project Psarras Georgios (presenting author), Kourgialas Nektarios, Morianou Giasemi, Koubouris Georgios -H.A.O. “Demeter” - Institute of Olive Tree, Subtropical Crops & Viticulture. |
| 10 | Behavior of the olive tree Chemlali in climate change conditions SAIDANA Dhouha, BEN MANSOUR Samia, BRAHAM Mohamed. Institute of olive tree, Sousse Station, Tunisia. |
| 11 | Broccoli cultivars for reducing atmospheric CO₂. Study of different cultivars grown under salinity Sagarduy Ana L. -Sakata Seed Iberica, Agudelo Agatha -Sakata Seed Iberica, Rios Juan J. -Grupo de Aquaporinas, Departamento de Nutrición Vegetal. CEBAS-(CSIC), Martinez-Ballesta M. Carmen - CEBAS-(CSIC), Carvajal Micaela -CEBAS-(CSIC) (Presenting author). |
| 12 | Wastewater Treatment By Floating Macrophyte (<i>Salvinia Natans</i>) Under Algerian Semi Arid Climate Laabassi Ayache - University of Batna (presenting author), Harzallah Daoud -University of Setif, Boudehane Asma - University of Batna, Fercha Azzedine - University Abbas Laghrour Khenchela. |
| 13 | Morphological variability among <i>Stipagrostis ciliata</i> (Desf.) De Winter accessions growing under North African arid bioclimate Mnif Fakhfakh Lobna, Jeddi Kowther, Chaieb Mohamed -Faculty of Sciences of Sfax. |
| 14 | Developing drought action plans at farmers’ organization level in order to improve their climate change adaptation potential Arampatzis George (Presenting author), Pinaras Vasilis, Hatzigiannakis Evangelos, Panagopoulos Andreas - H.A.O. “Demeter” -, NAGREF – Soil and Water Resources Institute. |



Friday 1st September 2017

*Posters should be placed between 09:00-09:30
and presented during the breaks (11:00-11:30 and 15:15-15:30)*

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| 1 | <i>The olive tree varieties behavior in different Tunisian area</i> / Saidana Dhouha, presenting author (Institute of the olive tree), Ben Mansour Samia (Institute of the olive tree), Braham Mohamed (Institute of the olive tree) |
| 2 | <i>Olive mill wastewater phytoremediation in a pilot scale unit using Myrtus communis and Punica granatum plants</i> Petoussi Margarita (presenting author), Papadimitropoulos Christos, Kalogerakis Nicolas - School of Environmental Engineering, Technical University of Crete, Chania, Greece. |
| 3 | <i>Landscape influences on population dynamics of Bactrocera oleae</i> Statterger Sophie -University of the Aegean, Biogeography and Ecology Lab) (presenting author), De Moraes Consuelo ETH Zurich, Institute of Agricultural Sciences, Tscheulin Thomas -University of the Aegean, Biogeography and Ecology Lab. |
| 4 | <i>Certification organic snails and future market-consumption edible snails</i> Karamani Evangelia - Aristotle University of Thessaloniki, Faculty of Agriculture, Forestry and Natural Environment, Department of Agricultural Economics (AUPh) (presenting author), Tzimitra Kalogianni Eirini - (AUPh) (presenting author), Karamani Maria - Alexandreio Technological Educational Institute of Thessaloniki (presenting author). |
| 5 | <i>Use of olive mill waste sludge and clinoptilolite as soil additives for pepper cultivation</i> Kosmidis Stavros -TEI of Peloponnese, Department of Agricultural Technology, Doula Maria -Benaki Phytopathological Institute (B.P.I.), Assimakopoulou Anna -TEI of Peloponnese, Department of Agricultural Technology, Troyanos Yerasimos - (B.P.I.), Papadopoulos Antonis -(B.P.I.), Kolovos Chronis -(B.P.I.)(Presenting author), Kostopoulos Panagiotis - Agricultural University of Athens (A.U.A.), Gounela Eleni -(A.U.A.). |
| 6 | <i>LIFE-Stymfalia: The nature of business</i> Skouloudaki Katerina -Piraeus Bank. |
| 7 | <i>Climate Change on Increasing the Risks of Armed Conflicts in Sudan</i> Ali Yousif Mohammed Awad - Chinese Academy of Sciences. |
| 8 | <i>Influence of spreading olive-mill wastewater on earthworm survival and growth</i> Chalkia Christina (presenting author) -Agricultural University of Athens (A.U.A.), Lab. of Agr. Zoology and Entomology, Vavoulidou Evangelia -H.A.O. "Demeter" - Soil Science Institute of Athens, Koubouris Georgios (koubouris@nagref-cha.gr) -H.A.O. "Demeter" - Institute of Olive Tree, Subtropical Crops & Viticulture (I.O.S.V.), Chatzipavlidis Iordanis (chatzipavlidis@aua.gr) -(A.U.A.) Lab. of General & Agricultural Microbiology, Kalaitzaki Argyro (I.O.S.V.), Perdakis Dionyssios -(A.U.A.), Lab. of Agr. Zoology and Entomology. |
| 9 | <i>Survey on orchard management practices applied in two olive growing areas of Crete, as compared to the approach proposed by LIFE AgroClimaWater project</i> Psarras Georgios (presenting author), Kourgialas Nektarios, Morianou Giasemi, Koubouris Georgios -H.A.O. "Demeter" - Institute of Olive Tree, Subtropical Crops & Viticulture. |
| 10 | <i>Yield and quality of lettuce as related to hydroponic system and NaCl concentration in irrigation water</i> Tzerakis Konstandinos (presenting author), Mixelakis Evangellos, Psarras Georgios -H.A.O. "Demeter" - Institute of Olive Tree, Subtropical Crops & Viticulture (I.O.S.V.). |



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| 11 | <i>Effect of temperature on <i>Phelipanche Ramosa</i> Pomel parasitism on tomato crop</i> Tarantino Emanuele (presenting author) -University di Foggia. |
| 12 | <i>Physiological comparative study of halophytes and glicophyte plants for adaptation to Mediterranean salinity coastal areas</i> Agudelo Agatha -Sakata Seed Iberica (Presenting author), Chelbi Najla - Laboratory of Extremophile Plants, Center of Biotechnology, Martinez-Ballesta M. Carmen -Grupo de Aquaporinas, Departamento de Nutrición Vegetal. CEBAS-(CSIC), Rios Juan J. - CEBAS-(CSIC), Carvajal Alcaraz Micaela - CEBAS-(CSIC) (Presenting author). |
| 13 | <i>Fingerprinting of Olive (<i>Olea europaea</i> L.) germplasm in Tunisian national collection by using Simple Sequence Repeat markers</i> Souabni Hana -Institut de l'Olivier (I.d.O.) (Presenting author), Saddoud-Debbabi Olfa -National Gene Bank of Tunisia, Fendri Mahdi -(I.d.O.), Triki Mohamed Ali -(I.d.O.), Ben Amar Fathi - (I.d.O.). |
| 14 | <i>Allelopathic effects of <i>Acacia saligna</i> (Labill.) Wendl. and <i>Cupressus sempervirens</i> L. on germination and seedling growth of alfalfa in arid Mediterranean lands</i> JEDDI Kaouthar (presenting author), MNIF Lobna, CHAIEB Mohamed - Faculty of Sciences of Sfax- Tunisia. |
| 15 | <i>Reducing the impact of drought by potassium application in olive trees (<i>Olea europaea</i> L.)</i> / Dbara Soumaya, presenting author (Regional center of horticulture and organic farming / Olive tree Institute), Abboud Samia (Higher Agronomic Institute Chott Mariem) |



Climate Changing Agriculture



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