



# XI INTERNATIONAL SYMPOSIUM ON ARTICHOKE, CARDOON AND THEIR WILD RELATIVES MOLFETTA - ITALY 18-21 APRIL 2023

## Program

Day:	From:	To:	
April 18, 2023	10:00	13:30	Registration
	13:30	15:00	Welcome buffet
	15:00	15:30	<b>Opening:</b> <ul style="list-style-type: none"> <li>- <b>Minervini Tommaso</b> <i>Mayor, City of Molfetta</i></li> <li>- <b>Pentassuglia Donato</b> <i>Councilor for agriculture of Puglia Region</i></li> <li>- <b>Branca Ferdinando</b> <i>Chair of the ISHS Division on Vegetables Roots and Tubers</i></li> </ul>
	15:30	16:00	<b>Prologue Talk:</b>
	16:00	16:45	<b>Keynote lecture:</b> <b>ALLELOPATHY IN <i>Cynara cardunculus</i> L.</b> <i>Mauromicale Giovanni</i> <i>Di3A, University of Catania, Catania, Italy</i>
			<b>ORAL SESSION I - PRE-HARVEST ASPECTS IN ARTICHOKE PRODUCTION</b>
	16:45	17:00	<b>Productive and morphological characterization of new Sicilian seed-grown hybrids of globe artichoke</b> <i>Pesce G.R., Scavo A., Salicola S.A., Formenti C., Salvagno E., Mauromicale G.</i>
	17:00	17:15	<b>In vitro culture <i>Cynara cardunculus</i> L. - Callogenesis induction and micropropagation by offshoots</b> <i>Marum L., Rodrigues C., Costa Pires R., Faustino A., Santos J., Peixe A., De Fátima Duarte M.</i>
	17:15	17:30	<b>Globe artichoke cultivation under agroecological practices</b> <i>Jouni N., Tiloca M.T., Cossu M., Deligios P.A., Spezzigu M., Ledda L.</i>
	17:30	17:45	<b>Environmental profile of artichoke cultivars grown in different regions of Italy: a life cycle assessment (LCA) perspective</b> <i>D'Antonio P., Mehmeti A., Cantore V., Boari F., Canaj K., Calabrese N.</i>
	17:45	18:00	<b>Metabolomics insight into the effect of bleaching on cardoon stalks cultivated in Tuscany region</b> <i>Ceccanti C., Miras-Moreno B., Lucini L., Guidi L., Incrocci L.</i>
	18:00	18:15	<b>Stand establishment method influenced root length intensity and yield of artichoke cultivars</b> <i>Leskovar D., Othman Y.</i>
	18:15	19:15	Cultural event
		08:00	09:00
	09:00	09:45	<b>Keynote lecture:</b> <b>RECENT INSIGHTS ON PRODUCING HIGH QUALITY ARTICHOKE THROUGH PRE-HARVEST AND POSTHARVEST APPLICATIONS</b>

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		<b>Valero Daniel</b> <i>University Miguel Hernandez, Orihuela (Alicante), Spain</i>
		<b>ORAL SESSION II - PRODUCT QUALITY &amp; POST-HARVEST (I)</b>
09:45	10:00	<b>Carbon and water footprint assessment of organic cultivated cardoon in Sicily</b> <i>Zingale S., Ingrao C., Pesce G.R., Guarnaccia P., Lagioia G., Mauromicale G.</i>
10:00	10:15	<b>Influence of the artichoke cultivar on the aptitude for the development of fresh-cut artichoke</b> <i>Giménez Torres M.J., Giménez Berenguer M., Zapata Coll P.J., Dobón Suárez A., Gutiérrez Pozo M.</i>
10:15	10:30	<b>Quality traits of globe artichoke ecotypes from Sicilian small holdings</b> <i>Lombardo S., Restuccia A., Pandino G., Ierna A., Mauro R.P., Scavo A., Formenti C., Scandurra A., Mauromicale G.</i>
10:30	10:45	<b>Effects of seasonal variation on MAP response of fresh-cut artichokes</b> <i>Colelli G., Fatchurrahman D., Saleem A., Amodio M.L.</i>
10:45	11:00	<b>Influence of the state of development of the artichoke on postharvest storage</b> <i>Zapata Coll P.J., Giménez M.J., Gimenez-Berenguer M., Grau A., Serna-Escolano V.</i>
<b>11:00</b>	<b>11:30</b>	<b>Coffee break</b>
		<b>ORAL SESSION III - ICARUS PROJECT</b>
11:30	11:45	<b>Introduction</b> <i>Trotta L., Cifarelli V.</i>
11:45	12:00	<b>Development of a model-based Decision Support System (DSS) integrated with proximal/remote sensing to optimize irrigation and fertilization strategies of the artichoke crop</b> <i>Buono V., Damato G., Riezzo E.E.</i>
12:00	12:15	<b>Influence of mycorrhizal treatment on the uptake and accumulation of pharmaceuticals into globe artichoke crop irrigated with contaminated water: preliminary results</b> <i>De Mastro F., Stea D., Brunetti G., De Mastro G., Ruta C., Murgolo S., De Ceglie C., Mascolo G., Cocozza C., Traversa A.</i>
12:15	12:30	<b>Mild microwave treatments to reduce browning and extend shelf-life of fresh-cut artichokes</b> <i>Colelli G., Fatchurrahman D., Amodio M.L., Fiore M.</i>
12:30	12:45	<b>Quality and Post-Cutting Performances of Twelve Artichoke Cultivars</b> <i>Ashraf J.Z., Pati S., Fatchurrahman D., Amodio M.L., Stea D., Ruta C., De Mastro G., Colelli G.</i>
12:45	13:00	<b>Influence of Packaging Material on Quality of Fresh-Cut Artichokes</b> <i>Ashraf J.Z., Pati S., Fatchurrahman D., Amodio M.L., Colelli G.</i>
<b>13:00</b>	<b>14:30</b>	<b>Lunch break + Poster session</b>
14:30	15:15	<b>Keynote lecture:</b> <b>GENETIC DIVERSITY AND POPULATION STRUCTURE STUDIES TOWARDS AN ASSOCIATION MAPPING APPROACH IN GLOBE ARTICHOKE</b> <b>Portis Ezio</b> <i>DISAFA, Plant Genetics, University of Torino, Torino, Italy</i>
		<b>ORAL SESSION IV - GENETICS &amp; GENOTYPES</b>
15:15	15:30	<b>Genetic Diversity and Population Structure of <i>Cynara cardunculus</i> L. in Portugal</b> <i>Marum L., Castro M.M., Rosa D., Ferro A.M., Faustino A., Paulino A., Brás T., Dinamene E., Cruz C., Belo A., Nozes P., Sofia Ramôa S., Portugal J., Mendonça D., Simes F., De Fátima M. Duarte</i>
15:30	15:45	<b>Characterization and expression profile of the polyphenol oxidase gene family in globe artichoke: a target for gene-editing knockout aimed at reducing after-cutting capitula browning</b> <i>Pompili V., Mazzocchi E., Moglia A., Acquadro A., Comino C., Rotino G.L., Lanteri S.</i>
15:45	16:00	<b>Application of bulked-segregant analysis coupled with whole genome sequencing (BSA-seq) for the identification of male sterility related genes in globe artichoke</b>

			<i>Martina M., Acquadro A., Zayas A., Polli M.F., Di Nardo G., Comino C., Gilardi G., Martin E., Portis E.</i>
16:00	16:15		<b>Comparative RNA-Seq analysis of distinct cynaropicrin productions on different <i>Cynara cardunculus</i> L. populations</b> <i>Paulino A.F., Pires R.C., Fernandes I., Faustino A., Santos J., Brás T., Rosa D., Paulo O.S., Duarte M.F., Marum L.</i>
16:15	16:30		<b>Artichoke landraces recovering and enhancement in Puglia (Southern Italy)</b> <i>Santamaria P., Somma A., Renna M., Signore A., Didonna A.</i>
16:30	17:00		<b>Coffee break</b>
17:00	18:00		<b>ISHS Business Meeting</b>
18:00	19:00		<b>Cultural event</b>

<b>April 20, 2023</b>	09:00	09:45	<b>Keynote lecture:</b> <b>FRESH CUT ARTICHOKE: WHAT WE KNOW AND WHAT WE SHOULD KNOW</b> <i>Amodio Maria Luisa</i> <i>DAFNE, University of Foggia, Foggia, Italy</i>
			<b>ORAL SESSION V - PRODUCT QUALITY &amp; POST-HARVEST (II)</b>
	09:45	10:00	<b>The overall quality of fresh-cut globe artichoke heads from organic and conventional farming</b> <i>Lombardo S., Rizzo V., Pandino G., Barbagallo R.N., Parafati L., Formenti C., Muratore G., Mauromicale G., Restuccia C.</i>
	10:00	10:15	<b>Reducing browning in fresh-cut artichokes by heat treatments</b> <i>Amodio M.L., Fatchurrahman D., Colelli G.</i>
	10:15	10:30	<b>Functional characterization of artichoke cultivars propagated vegetatively and by seeds</b> <i>Giménez Torres M.J., Giménez Berenguer M., García Pastor M.E., Serna Escolano V., Zapata Coll P.J.</i>
	10:30	10:45	<b>Agronomical and phytochemical characterization of the Italian Carciofo di Cupello (artichoke of Cupello), Mazzaferatta ecotype</b> <i>Melini V., Melini F., D'adamo A., Comendador F.</i>
	10:45	11:00	<b>Antioxidative characterisation of globe artichoke heads and wastes from vegetatively- and seed-propagated varieties</b> <i>Elia A., Bonasia A., Lazzizzera C., Conversa G.</i>
	11:00	11:30	<b>Coffee break</b>
	11:30	13:00	<b>Workshop with speakers from stakeholder representatives</b> <b>CURRENT SCENARIO AND FUTURE PERSPECTIVES OF ARTICHOKE MARKET</b> Among stakeholders: - <i>Pentassuglia D., Councilor for agriculture of Puglia Region</i> - <i>Scalise C., SG MARKETING, Bologna, Italy</i> (Simultaneous Italian/English translation will be provided)
	13:00	14:30	<b>Lunch break + Poster session</b>
	14:30	18:15	<b>TECHNICAL TOUR 1</b>
20:00	23:00	<b>Social Dinner</b>	

	09:00	09:45	<b>Keynote lecture:</b> <b>THE CULTIVATION OF <i>Cynara cardunculus</i> AS A MEDICINAL PLANT IN CENTRAL EUROPE</b> <i>Sałata Andrzej</i> <i>University of Life Sciences in Lublin, Poland</i>
			<b>ORAL SESSION VI - NON-FOOD USES OF <i>Cynara</i> AND WILD RELATIVES SPECIES</b>
	09:45	10:00	<b>Biomass and biomethane yield of cultivated and wild cardoon grown with zero input in the Mediterranean environment</b> <i>Pesce G.R., Negri M., Scavo A., Salicola S.A., Mauromicale G.</i>

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10:00	10:15	<b><i>Cynara cardunculus</i> sesquiterpene lactone cynaropicrin variation – from earlier stages till flowering</b> <i>Paulino A., Brás T., Santos J., Sousa T., Duarte M.F.</i>
10:15	10:30	<b>Artichoke flowers juice and Manna as a natural treatment for improving postharvest quality of fresh-cut apple (cv. Story) fruit</b> <i>Allegra A., Giménez M.J., Zapata P.J., Guccione E., Gallotta A., Sortino G.</i>
10:30	10:45	<b>The wild artichoke <i>Carlina acaulis</i> L. as promising source of effective insecticides and acaricides</b> <i>Spinozzi E., Ferrati M., Maggi F., Petrelli R., Caselli A., Benelli G., Perinelli D.R., Bonacucina G.</i>
10:45	11:00	<b>Green Biorefinery process applied on artichoke crop residues to obtain a range of high-value products, chemicals, soil nutrients and bioenergy</b> <i>FrancaVilla M., Marone M., Marasco P., Contillo F., Racca D., Carnevale A.</i>
11:00	11:30	<b>Coffee break</b>
11:30	12:00	<b>Closing ceremony</b>
12:00	19:00	<b>TECHNICAL TOUR 2</b>

Organized by:



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