

Symposium provisional program

This provisional program is subject to changes pending confirmation by all speakers

Monday 10 June

Morning

- □ CONGRESS & SYMPOSUM JOINT OPENING CEREMONY
- □ JONT WITH CONGRESS: THE FUTURE OF FOOD

Moderator: Jason Fritsch, WPTC President

- Emerging Trends in Agriculture, Ryan Avery (Bayer Vegetable Seeds)
- Reimagining our food systems: accelerating transformation to better sustain our planet and its people, Magdalena Psuja (TetraPak)
- ☐ IRRIGATION MANAGEMENT

Moderators: Matthew Stewart & Lajos Helyes

- Experimental and modelling approaches to explore the genetic-induced and water deficit-induced variations in the architectural traits (anatomy and conductivity) of the vasculature in tomato fruit pedicel and pericarp, Yan Zhao
- Processing tomatoes under deficit Irrigation in Southern Italy: yield and water use efficiency, Michele Rinaldi
- Tertiary Treated Wastewater used for Irrigation of Processing Tomatoes, Michele Rinaldi
- Comparative analysis of satellite and on-site sensor-based irrigation recommendations on processing tomato yield, Jorge Blanco
- Use of irridesk automatic irrigation system to management deficit irrgation strategies in processing tomato, Carlos Campillo Torres

Afternoon

- □ AUTOMATION AND PRECISION FARMING, AND RESILIENT CROP MANAGEMENT Moderators: Zoltan Pek & Carlos Campillo
- First results of mechanical direct sowing of processing tomato on biodegradable mulch film, Domenico Ronga

- Exploring dynamic management of Nitrogen (N) strategies to enhance N use efficiency and quality in processing tomato, Vito Aurelio Cerasola
- Vegetation indices to monitor water and chlorophyll content of tomato leaves,
 Sándor Takács
- Agricultural ICT platform "CropScope" achieved water saving and yield increasing, Norika Oki
- Potential for High-Throughput Phenotyping of Industrial Tomatoes for Post-Harvest
 Quality Assessment: Insights from Linen and Champagne use cases in France, Alexis
- The long-term sustainability of the California processing tomato production; some disturbing observations and potential solutions, Andrew Watson

□ ALTERNARIA WORKSHOP

Moderators: Luca Sandei & Sofia Stilwell

- Invited speaker: The toxicology of Alternaria toxins, Thierry Gauthier
- Alternaria toxins: risk prevention and control for the tomato food chain, Léna Dole
- Alternaria toxins in processed tomato products: diffusion ability and behavior during industrial processing, Luca Sandei
- Discussion

Tuesday 11 June

Morning

□ PESTS, PLANT DISEASES AND RESISTANCE BREEDING

Moderators: Brenna Aegerter & Patrick Smith

- Oxyfluorfen: an Excellent Tool for Tomato Volunteer Plants Reduction in Processing Tomatoes, Cosme Argerich
- Evaluation of Trichoderma atroviride to Combat Soil-Borne Pathogens in Processing Tomatoes, Patrick Smith
- Fusarium oxysporum associated with yield decline in Australian processing tomatoes, Hanyue Feng
- Ralstonia solanacearum control: monitoring and containment measures to prevent its spread in Northern Italy tomato processing industry, Luca Sandei

□ PESTS, PLANT DISEASES AND RESISTANCE BREEDING

Moderators: Zach Bagley & Cosme Argerich

- Evaluation of fungicides and a fumigant for management of Fusarium diseases in the Central Valley of California, Brenna Aegerter
- Host resistance in commercial tomato cultivars to manage Phytophthora infestans,
 David Perla
- Survival and fungal colonization of the tomato pathogen Athelia rolfsii (syn. Sclerotium rolfsii) in response to organic soil health practices, Kelley Paugh
- Phelipanche a California re-emergence: Processing tomato industry efforts in the development of contain, control and long term management strategies, Zach Bagley

Afternoon

☐ ANALYSIS AND PRODUCTS

Moderators: David Page & Virginia Fernandez Ruiz

- Predicting carotenoid concentrations in growing and ripening tomato fruits under varied irrigation and light conditions: results from coupled confocal microscopy and image analysis, Dario Constantinescu
- Mid-infrared spectroscopy, a routine tool for improving the quality of processed tomato products, Matthieu Clerc-Pithon
- Recent approaches in the HPLC determinations of bioactive compounds from tomatoes, Daood Hussein
- Application of Rapid Methods for sensory analysis in tomato products innovation:
 the case of Salmorejo, Virginia Fernandez Ruiz
- Viscosity of tomato-based product can be influence by structural modification of constitutive particles as well as biochemical modification of pectins, David Page
- Spray drying of sugar-reduced tomato juice to produce clean-label tomato powder for diabetics, Robert Thierry Malomar
- Lycopene as innovative food ingredient according to EU Novel Food Regulation,
 Montaña Cámara
 - □ POSTER SESSION (30 POSTERS)

Wednesday 12 June

Morning

☐ FUNTOMP SESSION

Moderators: Mecit Oztop & Montana Camara

- Production of a cellulosic fiber from tomato wastes, Murad Bal
- Effect of high-pressure homogenization on the quality attributes of a protein enriched tomato leather, Elif Gokcen Ates
- Effects of microwave pasteurization on a functional tomato sauce enriched with pea protein and olive powder, Mecit Oztop
- The effect of pea protein and RuBisCO on the physicochemical properties of spraydried tomato powder, Neriman Ezgi Cifte
- Enhancing Lycopene Analysis in Microwave-vacuum Dried Tomato Snack Bars by NIR Spectra and Hyperspectral Imaging, Ozan Tas
- Improving the Quality of Tomato Products by Using Microwave-Vacuum Drying in a Snack Bar Manufacturing System, Rasim Gul
- Valorization of tomato pomace to use it as a substrate in the fermentation, Ayse
 Sultan Kurt

CONGRESS	& SYMPOSUM JOINT	CLOSING CEREMONY
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LIST OF POSTERS

CROP PRODUCTION

- Image-based production prediction analysis, José María Vadillo
- Alternaria species associated with symptomatic leaves and fruits of processing tomatoes in Australia, Hanyue Feng
- Pythium species isolated from irrigation water in a processing tomato field in **Australia**, Hanyue Feng
- Life Waste4Green: new zero residue formulations based on botanical extracts, Juan Ignacio Gutierrez
- Evaluation of the potential of different microbial treatments in processing tomatoes under abiotic water stress, Antonio Sanchez
- Use of precision irrigation for water efficient management in a processing tomato commercial farm, Carlos Campillo Torres
- Effect of heat waves in processing tomato yields, Carlos Campillo Torres
- Effect of different plant density and deficit irrigation in grafted processing tomato,
 Juan Ignacio Macua
- LIFE ALGAR BBE MicroALGae with ARomatic plants as Biostimulants with Biocide Effect, Jose Luis Llerena Ruiz
- Influence of soil variability on tomato production: Insights from ECa-based soil zoning and satellite imagery, Jorge Blanco
- Study on soil herbicides for weed control in tomatoes (Solanum lycopersicum L.),
 Mariyan Yanev
- Adaptive Responses of Tomato Plants to Varying Irrigation Levels: Insights into Root Development Efficiency, Oussama M'hamdi
- Prediction of tomato quality traits utilizing machine learning models, Sándor Takács
- Regulated deficit irrigation to overcome climate change effects enhancing processing tomato fruit quality, Domenico Ronga
- Ripening process evaluation of tomatoes treated with different concentrations of 1-MCP ripening inhibitor, Zsuzsanna Horváth-Mezőfi
- Insights from utilizing Water Retainer® in the growth and yield of processing tomato seedlings, Zoltán Pék
- Distance from hedges slightly influences the antioxidant status of open field tomato genotypes, Zoltán Pék
- Mitigation of high temperature stress by foliar application of chitosan in tomato seedlings, Zoltán Pék
- Effect of Water Retrainer® during seedling period on bioactive components of processing tomato, Zoltán Pék
- Smart processing tomato cultivation: precision irrigation system using DSS and LoRaWAN tecnology, Luigi Tedone
- Characterization of a New Type of Resistance Breaking TSWV Strain Isolated from Tomato in Hungary, Gábor Palotás
- Experimental Evaluation of Processing Tomato Grown in Agrivoltaic Systems Under Mediterranean Climates in California, Shamim Ahamed

PROCESSING & MARKETS

- Assessment of Antioxidant Capacity in Hydrophilic and Lipophilic Components of Spanish Tomato Paste: Exploring the Efficacy of Front-Face Total Fluorescence, José Riballo
- Research on phase-change materials for the design of a solar thermal energy storage system for the tomato industry, Ruben Sanchez
- How the QUANTM Electric Pump Can Reduce Operational Costs Greta Straetmans
- Study for the development of probiotics fermented milk products with fresh pulp or concentrated pulp with prior enzymatic hydrolysis, M José Riballo
- Quality characteristics of typical canned cherry tomatoes obtained with direct mechanical sowing of tomato plants on biodegradable mulch film, Luca Sandei
- Combined Effect of UV-C Light and Mild Heat on the Lycopene and Beta-carotene Contents of a Functional Tomato Juice, Rose Daphnee Tchonkouang
- Tomato Pomace: From a Waste to Novel Food Ingredients, Nidal Shaban
- Tomatoes as a pilot of pedagogical knowledge construction in Master programs,
 Maria Soledad Hernandez