

2nd RECROP Annual Meeting - COST Action CA22157

Climate-Proof Crop Reproduction: from lab to farm

Day 1: May 13, 2025

Time	Event
9:30 - 13:00	Registration KEDEA building, Aristotle University of Thessaloniki
10:00 - 12:30	MC member meeting (only MC members allowed)
12:30 - 13:00	Welcome Coffee
13:00 - 13:30	Welcome and RECROP COST Introduction (Sotirios Fragkostefanakis)
13:30 - 14:10	Keynote Speaker Anja Geitmann (McGill University, Canada) <i>Thermotolerance and invasive growth in the male gametophyte</i>
14:10 - 18:00	Session 1: Plant Reproduction Under Abiotic Stresses <i>Chairs: Michal Lieberman-Lazarovich & Ariola Bacu</i>
14:10 - 14:30	Thomas Dresselhaus (University of Regensburg, Germany) <i>Abiotic stresses affect vegetative and reproductive development in maize differently</i>
14:30 - 14:50	Helene Robert Boisivon (Masaryk University, Czech Republic) <i>Unraveling the process of thermoregulation during the seed development in Brassica napus</i>
14:50 - 15:10	Natasa Cerekovic (University of Banja Luka, Bosnia Herzegovina) <i>Reproductive stage sensitivity of maize to water and temperature stress across two distinct pedoclimatic regions in Bosnia and Herzegovina</i>
15:10 - 16:00	Coffee Break & Poster Session I
16:00 - 16:20	Marta A. Mendes (University of Milan, Italy) <i>Regulation of Ovule Number and Fertility by DRM Methyltransferases During Drought Stress</i>
16:20 - 16:40	Petra Prochazkova Schruppova (Masaryk University, Czech Republic) <i>From Gametophytes to Sporophytes: Investigating Plant Motif Distribution with GOLEM</i>
16:40 - 17:00	David Honys (Institute of Experimental Botany, Czech Academy of Sciences, Czech Republic) <i>The role of eIF3 in the control of pollen tube growth and thermotolerance</i>

Time	Event
17:00 - 17:20	Konstantinos Vlachonasios (Aristotle University of Thessaloniki, Greece) <i>Histone Acetyltransferase GCN5 and the Associated Coactivators ADA2 - From Evolution of the SAGA Complex to the Biological Roles in Plants</i>
17:20 - 17:40	Jan Fila (Institute of Experimental Botany, Czech Academy of Sciences, Czech Republic) <i>Unveiling the molecular function of the nascent polypeptide-associated complex subunit beta in Arabidopsis thaliana</i>
17:40 - 17:45	Alison Tidy (University of Nottingham, UK) <i>Large scale phenotyping looking at temperature stress on reproduction in Brassica diversity set</i>
17:45 - 17:50	Michal Lieberman Lazarovich (Volcani Center, Israel) <i>Heat stress response in commercial tomato varieties – from lab to farm</i>
17:50 - 17:55	Stylianios Poullos (Aristotle University of Thessaloniki, Greece) <i>The Arabidopsis thaliana SPATULA, CLAVATA1 and GCN5 genes interact to regulate gene expression and gynoecium development</i>
17:55 - 18:30	Poster Session I (continued)
20.00	Opening Event at OMILOS beach club

Day 2: May 14, 2025

Time	Event
09:00 - 13:10	Session 2: Abiotic Stress Sensing, Signalling, and Response Chairs: Marta Mendes & Konstantinos Vlachonasios
09:00 - 09:40	Keynote Speaker: John H. Doonan (Aberystwyth University, UK) <i>High Throughput Phenotyping for Weather-Resilient Crop Development at the National Plant Phenomics Centre, Aberystwyth</i>
09:40 - 10:00	Natasa Lukic (University of Banja Luka, Bosnia Herzegovina) <i>Biochemical and molecular adaptations of two wheat genotypes to waterlogging stress and recovery</i>
10:00 - 10:20	Guillaume Ramstein (Aarhus University, Denmark) <i>Detecting effects of protein-coding variants by 3D structure prediction: application in a maize nested association mapping panel</i>
10:20 - 10:40	Artemis Perraki (University of Toulouse, France) <i>Unravelling the role of CaM/CMLs in early pollen development</i>
10:40 - 10:45	Damla Turan Büyükdinç (Recep Tayyip Erdogan University, Turkey) <i>An Evaluation of Drought Stress Responses in Mutant Carrot Callus Tissue</i>
10:45 - 10:50	Meenakshi Kanwar (Indian Institute of Technology Roorkee, India) <i>The Curious Case of a Class C HSF in Pisum sativum (Garden Pea): A Molecular Enigma</i>
10:50 - 11:30	Coffee Break & Poster Session I (continued)

Time	Event
11:30 - 11:50	Avilien Dard (VIB Ghent, Belgium) <i>Surfing the ROS wave: HDA6s journey from chromatin to cytosolic stress granules. Unveiling redox-regulation of protein phase separation during heat stress.</i>
11:50 - 12:10	Usman Khalid Chaudhry (Nigde Omer Halisdemir University, Turkey) <i>Investigation of different colored carrot cultivars in response to single and combination of drought and heat stresses</i>
12:10 - 12:30	Francesca Resentini (University of Milan, Italy) <i>Mitochondrial Calcium Signaling in Plants: Insights into Stress Response Mechanisms</i>
12:30 - 12:35	Rafail Gritzas (University of Toulouse, France) <i>Investigating the role of SERK1 co-receptor in regulating plant response to temperature elevations</i>
12:35 - 12:40	Bianca Maria Orlando Marchesano (University of Milan, Italy) <i>Development of the Adult Plant Projective Imaging (APPI) System: Democratizing Imaging for Non-Model Plants</i>
12:40 - 12:45	Anna Velliou (Agricultural University of Athens, Greece) <i>The effects of Dynamic Controlled Atmosphere in physiological and quality traits of Hayward kiwifruit during cold storage</i>
12:45 - 14:00	Lunch Break
14:00 - 15:50	Session 3: Biotechnology, Gene editing and Systems Biology Approaches to Decipher Crop Resilience <i>Chairs: Antonio Granell & Olha Lakhneko</i>
14:00 - 14:40	Keynote Speaker: Francesca Desiderio (CREA – Research Centre for Genomics and Bioinformatics, Italy) <i>Combining genomic and phenotyping approaches to study the genetic diversity for drought resilience in durum wheat</i>
14:50 - 15:10	Panagiotis Kalaitzis (Mediterranean Agronomic Institute of Chania, Greece) <i>A tomato prolyl 4 hydroxylase 3 and Fascilin-like Arabinogalactan proteins 1 and 2 are involved in tomato abscission</i>
15:10 - 15:30	Thomas Roitsch (University of Copenhagen, Denmark) <i>Determination of metabolic biosignatures by cell physiological phenotyping to assess predictors of crop resilience and improve the lab to field translation</i>
15:30 - 15:35	Christina Skodra (Aristotle University of Thessaloniki, Greece) <i>Decoding the molecular basis of superficial scald development in apples using a multi-omics and functional approach</i>
15:35 - 15:50	Coffee Break
15:50 - 16:10	Special RECROP Session: Antonio Granell (Polytechnic University of Valencia, Spain) <i>HarnesstomDB v1.0: A Comprehensive Multi-Omics Resource for Tomato Genetic Diversity</i>
16:10 - 16:30	Musa Kavas (Ondokuz Mayıs University, Turkey) <i>Increase of Lateral Roots in Tomato Plants Using Crispr-Combo Technology</i>
16:30 - 16:50	Adi Avni (Tel Aviv University, Israel) <i>Bio-Sensors for Precision Agriculture</i>
16:50 - 17:10	Coffee Break & Poster Session II

Time	Event
17:10 - 18:35	Session 4: Chemical Priming and Modern Practices for Increased Crop Yields in Challenging Environments <i>Chairs: Vassilis Fotopoulos & Jan Fila</i>
17:10 - 17:30	George Manganaris (Cyprus University of Technology, Cyprus) <i>The application of priming agents as a stress alleviation strategy to combat abiotic conditions in soft fruit crops</i>
17:30 - 17:50	Maria Angeles Pedreno (University of Murcia, Spain) <i>Plant cell culture-based biostimulants alleviate salinity stress in tomato seeds</i>
17:50 - 18:10	Stefan Simm (Coburg University of Applied Sciences and Arts, Germany) <i>Fertilizer optimization using XAI</i>
18:10 - 18:30	Soofia Khanahmadi (Goethe University Frankfurt, Germany) <i>Elucidating Pattern-Dependent Interactions, Immunomodulatory Roles, and Bioactivity Mechanisms of Chitooligosaccharides in Plants</i>
18:30 - 18:35	Filipa Sousa (University of Porto, Portugal) <i>Enhancing chestnut plants' climate resilience: a stress priming approach</i>
20:15	Conference Dinner at NAVONA restaurant

Day 3: May 15, 2025

Time	Event
09:00 - 13:30	Session 5: Breeding for Climate Resilience Crops <i>Chairs: Aleksandra Radanovic & Ifigeneia Mellidou</i>
09:00 - 09:40	Keynote Speaker: Avraham A. Levy (Weizmann Institute of Science, Israel) <i>New breeding technologies and applications for vertical farming in tomato</i>
09:40 - 10:00	Ueli Grossniklaus (University of Zurich, Switzerland) <i>The Potential Contribution of Orphan Crops to a More Climate-Resilient Agriculture</i>
10:00 - 10:20	Muriel Quinet (University of Louvain, Belgium) <i>Exploring orphan crops and crop wild relatives to improve agricultural resilience to climate change</i>
10:20 - 10:25	Jurica Duvnjak (Agricultural Institute Osijek, Croatia) <i>Influence of light and increased temperatures on the photosynthetic parameters and grain yield of winter wheat varieties over two growing seasons</i>
10:25 - 10:30	Salvatore Graci (University of Naples Federico II, Spain) <i>Advancing Tomato Breeding for Heat Tolerance: Development of Resilient Hybrids for Climate Change Adaptation</i>
10:30 - 10:35	Recep Irfan Nazli (University of Cukurova, Turkey) <i>Evaluation of bioenergy and forage production potential of sweet sorghum (<i>Sorghum bicolor</i> L. Moench) inbred lines in a semi-arid Mediterranean environment</i>
10:35 - 10:40	Rada Sucur (University of Novi Sad, Serbia) <i>Evaluation of Resistance Genes in Wheat Cultivars Against Major Pathogens Under Abiotic Stress Conditions</i>
10:40 - 11:30	Coffee Break – Poster Session II (continued)

Time	Event
11:30 - 11:50	Ljiljana Kuzmanovic (University of Tuscia, Italy) <i>Metabolomic profiling provides insights into pistil adaptation to heat stress in durum wheat lines carrying segmental introgressions from the wild grass <i>Thinopyrum ponticum</i></i>
11:50 - 12:10	Aleksandra Radanovic (National Institute of the Republic of Serbia, Serbia) <i>Molecular Pathways to Resilience: A Dive into Sunflower Drought Tolerance</i>
12:10 - 12:30	Faheem Shehzad Baloch (Mersin University, Turkey) <i>Image Analysis-Driven High-Throughput Phenotyping and Genome-Wide Association Studies for Mapping some Agronomic Traits in Buckwheat</i>
12:30 - 12:50	Carlos Gu (Novogene) <i>Harnessing Sequencing and Multi-Omics to Empower Climate-Proof Crop Innovation: From Lab Insights to Farm Resilience</i>
12:50 - 14:00	Lunch Break
14:00 - 15:00	Special RECROP section: Stakeholders meet Researchers Stella Provelengiou (Wikifarmer, Greece)
15:00 - 16:00	Young Researchers – Round Table Discussion Olha Lakhneko (Institute of Botany, Slovak Academy of Sciences, Slovakia)
16:00 - 17:00	Closing Remarks

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