

## 2<sup>nd</sup> 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)
14:10-18:00	<b>Session 1: Plant Reproduction Under Abiotic Stresses</b> <i>Chairs: Michal Lieberman-Lazarovich &amp; Ariola Bacu</i>
14:10-14:30	<b>Thomas Dresselhaus</b> (Germany) <i>Abiotic stresses affect vegetative and reproductive development in maize differently</i>
14:30-14:50	<b>Helene Robert Boisivon</b> (Czech Republic) <i>Unraveling the process of thermoregulation during the seed development in Brassica napus</i>
14:50-15:10	<b>Natasa Cerekovic</b> (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	<b>Coffee Break &amp; Poster Session I</b>
16:00-16:20	<b>Marta A. Mendes</b> (Italy) <i>Regulation of Ovule Number and Fertility by DRM Methyltransferases During Drought Stress</i>
16:20-16:40	<b>Petra Prochazkova Schruppfova</b> (Czech Republic) <i>From Gametophytes to Sporophytes: Investigating Plant Motif Distribution with GOLEM</i>
16:40-17:00	<b>David Honys</b> (Czech Republic) <i>The role of eIF3 in the control of pollen tube growth and thermotolerance</i>

Time	Event
17:00-17:20	<b>Konstantinos Vlachonasios</b> (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	<b>Jan Fila</b> (Czech Republic) <i>Unveiling the molecular function of the nascent polypeptide-associated complex subunit beta in Arabidopsis thaliana</i>
17:40-17:45	<b>Alison Tidy</b> (UK) <i>Large scale phenotyping looking at temperature stress on reproduction in Brassica diversity set</i>
17:45-17:50	<b>Golan Miller</b> (Israel) <i>Heat stress response in commercial tomato varieties – from lab to farm</i>
17:50-17:55	<b>Stylianos Poullos</b> (Greece) <i>The Arabidopsis thaliana SPATULA, CLAVATA1 and GCN5 genes interact to regulate gene expression and gynoecium development</i>
17:55-18:30	<b>Poster Session</b>
20.00	OPENING EVENT @ OMILOS BAR RESTAURANT

## Day 2: May 14, 2025

Time	Event
09:00 - 13:10	<b>Session 2: Abiotic Stress Sensing, Signalling, and Response</b> <b>Chairs: Marta Mendes &amp; Konstantinos Vlachonasios</b>
09:00 - 09:40	<b>Keynote Speaker: John H. Doonan</b> (Aberystwyth University, UK) <i>High Throughput Phenotyping for Weather-Resilient Crop Development at the National Plant Phenomics Centre, Aberystwyth</i>
09:40 - 10:00	<b>Natasa Lukic</b> (Bosnia Herzegovina) <i>Biochemical and molecular adaptations of two wheat genotypes to waterlogging stress and recovery</i>
10:00 - 10:20	<b>Muriel Quinet</b> (Belgium) <i>Exploring orphan crops and crop wild relatives to improve agricultural resilience to climate change</i>
10:20-10:40	<b>Artemis Perraki</b> (France) <i>Unravelling the role of CaM/CMLs in early pollen development</i>
10:40-10:45	<b>Shani Doron</b> (Israel) <i>Two opposing redox signals mediated by 2-Cys Prx shape the redox proteome during the photosynthetic induction phase</i>
10:45-10:50	<b>Meenakshi Kanwar</b> (India) <i>The Curious Case of a Class C HSF in Pisum sativum (Garden Pea): A Molecular Enigma</i>
10:50-11:30	<b>Coffee Break &amp; Poster Session II</b>

Time	Event
11:30 - 11:50	<b>Avilien Dard</b> (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	<b>Usman Khalid Chaudhry</b> (Turkey) <i>Investigation of different colored carrot cultivars in response to single and combination of drought and heat stresses</i>
12:10-12:30	<b>Francesca Resentini</b> (Italy) <i>Mitochondrial Calcium Signaling in Plants: Insights into Stress Response Mechanisms</i>
12:30 - 12:35	<b>Rafail Gritzis</b> (France) <i>Investigating the role of SERK1 co-receptor in regulating plant response to temperature elevations</i>
12:35-12:40	<b>Bianca Maria Orlando Marchesano</b> (Italy) <i>Development of the Adult Plant Projective Imaging (APPI) System: Democratizing Imaging for Non-Model Plants</i>
12:40-12:45	<b>Anna Velliou</b> (Greece) <i>The effects of Dynamic Controlled Atmosphere in physiological and quality traits of Hayward kiwifruit during cold storage</i>
12:45-14:00	<b>Lunch Break</b>

## Day 2: May 14, 2025

Time	Event
14:00-15:50	<b>Session 3: Biotechnology, Gene editing and Systems Biology Approaches to Decipher Crop Resilience</b> <i>Chairs: Antonio Granell &amp; Olha Lakhneko</i>
14:00-14:40	<b>Keynote Speaker: Francesca Desiderio</b> (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>
14:50-15:00	<b>Panagiotis Kalaitzis</b> (Greece) <i>A tomato prolyl 4 hydroxylase 3 and Fascilin-like Arabinogalactan proteins 1 and 2 are involved in tomato abscission</i>
15:00-15:20	<b>Thomas Roitsch</b> (Denmark) <i>Determination of metabolic biosignatures by cell physiological phenotyping to assess predictors of crop resilience and improve the lab to field translation</i>
15:20-15:25	<b>Christina Skodra</b> (Greece) <i>Decoding the molecular basis of superficial scald development in apples using a multi-omics and functional approach</i>
15:25-15:45	<b>Coffee Break</b>
15:45-16:05	<b>Special RECROP Session: Antonio Granell</b> (Spain) <i>HarnesstomDB v1.0: A Comprehensive Multi-Omics Resource for Tomato Genetic Diversity</i>

Time	Event
16:05-16:25	<b>Musa Kavas</b> (Turkey) <i>Increase of Lateral Roots in Tomato Plants Using Crispr-Combo Technology</i>
16:25-16:45	<b>Adi Avni</b> (Israel) <i>Bio-Sensors for Precision Agriculture</i>
16:45-17:10	<b>Coffee Break</b>
<b>17:10-18:35</b>	<b>Session 4: Chemical Priming and Modern Practices for Increased Crop Yields in Challenging Environments</b> <b>Chairs: Vassilis Fotopoulos &amp; Jan Fila</b>
17:10 – 17:30	<b>George Manganaris</b> (Cyprus) The application of priming agents as a stress alleviation strategy to combat abiotic conditions in soft fruit crops
17:30 – 17:50	<b>Maria Angeles Pedreno</b> (Spain) <i>Plant cell culture-based biostimulants alleviate salinity stress in tomato seeds</i>
17:50 – 18:10	<b>Stefan Simm</b> (Germany) <i>Fertilizer optimization using XAI</i>
18:10 - 18:30	<b>Soofia Khanahmadi</b> (Germany) <i>Elucidating Pattern-Dependent Interactions, Immunomodulatory Roles, and Bioactivity Mechanisms of Chitooligosaccharides in Plants</i>
18:30 - 18:35	<b>Filipa Sousa</b> (Portugal) <i>Enhancing chestnut plants' climate resilience: a stress priming approach</i>
20:30	<b>Conference Dinner</b>

## Day 3: May 15, 2025

Time	Event
<b>09:00-13:30</b>	<b>Session 5: Breeding for Climate Resilience Crops</b> <b>Chairs: Aleksandra Radanovic &amp; Ifigeneia Mellidou</b>
09:00-09:40	<b>Keynote Speaker: Avraham A. Levy</b> (Weizmann Institute of Science, Israel) <i>New breeding technologies and applications for vertical farming in tomato</i>
09:40-10:00	<b>Ueli Grossniklaus</b> (Switzerland) <i>The Potential Contribution of Orphan Crops to a More Climate-Resilient Agriculture</i>
10:00-10:20	<b>Guillaume Ramstein</b> (Denmark) <i>Detecting effects of protein-coding variants by 3D structure prediction: application in a maize nested association mapping panel</i>
10:20-10:25	<b>Jurica Duvnjak</b> (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	<b>Salvatore Graci</b> (Spain) <i>Advancing Tomato Breeding for Heat Tolerance: Development of Resilient Hybrids for Climate Change Adaptation</i>

Time	Event
10:30-10:35	<b>Recep Irfan Nazli (Turkey)</b> <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	<b>Rada Sucur (Serbia)</b> <i>Evaluation of Resistance Genes in Wheat Cultivars Against Major Pathogens Under Abiotic Stress Conditions</i>
10:40-11:30	<b>Coffee Break – Poster Session</b>
11:30-11:50	<b>Liljana Kuzmanovic (Italy)</b> <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	<b>Aleksandra Radanovic (Serbia)</b> <i>Molecular Pathways to Resilience: A Dive into Sunflower Drought Tolerance</i>
12:10-12:30	<b>Faheem Shehzad Baloch (Turkey)</b> <i>Image Analysis-Driven High-Throughput Phenotyping and Genome-Wide Association Studies for Mapping some Agronomic Traits in Buckwheat</i>
12:30-12:50	<b>Velimir Mladenov (Serbia)</b> <i>Approaches in modern corn breeding with reducing anthesis-silking interval (ASI) and ClimaPannonia presentation</i>
12:50-14:00	<b>Lunch Break</b>
14:00-15:00	<b>Special RECROP section: Stakeholders meet Researchers</b>
15:00-16:00	<b>Young Researchers – Round Table Discussion</b>
16:00-17:00	<b>Closing Remarks</b>

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