

**Redox biology (antioxidant and pro-oxidant molecules)**

Last name	First name	Title of poster	# poster
CALLEJA	Aitziber	Photosynthetic glyceraldehyde-3-phosphate dehydrogenase activity is partially inhibited by GSNO through the oxidation of both catalytic Cys and regulatory disulfide	S1-P01
CHEN	Tao	Salicylic acid regulates thioredoxin functions in the chloroplast	S1-P02
DE BONT	Linda	Biochemical characterization of thioredoxin-like 3, a conserved protein in the green lineage	S1-P03
FLORYSZAK-WIECZOREK	Jolanta	Searching for endogenous sources of nitroxyl in plants	S1-P04
HENDRIX	Sophie	Arabidopsis glutathione peroxidase-like 8 (GPXL8): A new player in H <sub>2</sub> O <sub>2</sub> signaling?	S1-P05
LIN	Chi-Chuan	Do redox regulated post translational modifications lead to catalase moonlighting?	S1-P06
LIU	Zhichao	Biochemical characterization of thioredoxin-related protein Clot/TRP14 of <i>Populus trichocarpa</i>	S1-P07
LÜTHJE	Sabine	The mystery of the standard system: Stand-alone activity or vitamin K driven redox chain?	S1-P08
NAKASUGA	Ryosuke	Detoxification of lipid peroxide-derived reactive carbonyl species by glutathione transferase Tau isozymes	S1-P09
NAZARET	Fanny	The <i>Sinorhizobium meliloti</i> redox-dependent transcriptional regulator SydR is required for nitrogen-fixing symbiosis	S1-P10
PFLEGER	Ana	Photoprotective strategies in <i>Chlamydomonas reinhardtii</i> : The role of flavodiiron proteins under contrasting oxygen tension	S1-P11
PUNKKINEN	Matleena	Mitochondrial respiration affects ROS metabolism in the chloroplast via altered levels of molecular oxygen in tissues	S1-P12
STEGNER	Moritz	Ageing rates affect ROS-associated viability loss in short- and long-lived vegetable seeds	S1-P13
TRÉMULOT	Lug	A role for a specific glucose-6-phosphate dehydrogenase in linking oxidative stress to phytohormone signaling in <i>Arabidopsis thaliana</i>	S1-P14
XU	Dongdong	Role of specific monodehydroascorbate reductases in <i>Arabidopsis</i>	S1-P15

**Tools for redox biology**

Last name	First name	Title of poster	# poster
CORPAS	Francisco J.	Electrochemical detection of total antioxidant capacity (TAC) in plant tissues from different origins	S2-P01
LETT	Casey	Using roGFP to determine the effect of protoplasting on cellular redox state	S2-P02
UGALDE	José Manuel	Illuminating plant redox biology: A new automatized system for multiplexed real-time monitoring of H <sub>2</sub> O <sub>2</sub> and the glutathione redox potential during dark-light transitions	S2-P03

**Plant growth and development**

Last name	First name	Title of poster	# poster
ASARD	Han	Elevated CO <sub>2</sub> enhances drought tolerance of maize by increasing soluble sugars in the leaf meristem, maintaining cell division and turgor and reducing oxidative stress	S3-P01
BOTTIGLIONE	Benedetta	Monochromatic LED Lighting Affects Redox Homeostasis and Morphological Traits in Lentil Seedlings	S3-P02

BUI	ThuGiang	Transcriptional regulation of ROS homeostasis in sugar beet to regulate growth and development	S3-P03
BYKOVA	Natalia	Reciprocal regulation of intracellular redox state, antioxidative pathways, and phytohormonal signaling in dormant and germinating wheat seeds	S3-P04
FISCHER-SCHRADER	Katrin	Characterization and potential function of the Amidoxime Reducing Components ARC1 and ARC2 of Lotus japonicus and other plant ARCs	S3-P05
GONZÁLEZ-GORDO	Salvador	Plastid proteome dynamics during sweet pepper fruit ripening and its modulation by nitric oxide	S3-P06
HU	Zhoubo	Catalase-InteractingRCC1-Like Protein 1 contributes to hydrogen peroxide homeostasis in Arabidopsis	S3-P07
HUEBRA-MONTERO	Laura	Elongated on nitric oxide (EON) mutants: a mapping-by-sequencing screening to identify key genes involved in nitric oxide function during hypocotyl elongation	S3-P08
KIYOSUE	Mayu	FATTY ACID DESATURASE5 deficiency suppresses the generation of reactive carbonyl species in Arabidopsis crumpled leaf mutant	S3-P09
MUÑOZ-VARGAS	María de los Ángeles	Peroxisomal H2O2-generating sulfite oxidase from pepper fruits is modulated by NO and H2S	S3-P10
RUBIO	Jorge	Deciphering the molecular interaction between Brassinosteroids and Nitric Oxide	S3-P11
SEKANINOVÁ	Jana	Reactive oxygen species production and antioxidant activity during pea seed coat development	S3-P12

#### Plant response to biotic stress

Last name	First name	Title of poster	# poster
BOSCARI	alexandre	Nitric oxide: a multifaceted regulator of the nitrogen-fixing symbiosis	S4-P01
CITTERICO	Matteo	Characterization of the missing pieces in the regulation of plant RBOHs	S4-P02
PETŘIVALSKÝ	Marek	Structure-activity studies of oomycete elicitors reveal the role of reactive oxygen and nitrogen species in the induction of plant defence responses to pathogens	S4-P03
ROMERO-PUERTAS	María C.	Conserved regulation of Peroxisome-dependent transcription factors under plant stress: from model to crop species	S4-P04

#### Plant response to abiotic stress

Last name	First name	Title of poster	# poster
ALCHE	Juan de Dios	Adaptation of redox balance in the olive tree in response to irrigation with saline water, a forthcoming agronomical challenge	S5-P01
BOS CALDERÓ	Laura	Ethylene, the timer of cadmium-induced oxidative stress responses	S5-P02
ÇETİNKAYA	Hatice	The Effect of Azelaic Acid on the Antioxidant Defence System and the Cell Wall in Soybean Leaves under Different Stresses	S5-P03
COLEMONT	Jasmine	Genetically encoded biosensors reveal physiological responses to heat stress in Arabidopsis thaliana	S5-P04
ECEIZA	Mikel Vicente	Can shikimate accumulation induce ROS production?	S5-P05
ESPINOSA	Francisco	Effect of Lithium toxicity on growth, nutrients absorption, photosynthetic pigments and ROS, NO, H2S and antioxidant defence on sunflower plants	S5-P06
FORTUNATO	Stefania	Redox regulation in heat stress induced retrograde signaling	S5-P07
FUJIMOTO	Nanami	Identification and functional analysis of novel players in oxidative stress-induced cell death	S5-P08
GUPTA	Neha	Unraveling the involvement of Nitric oxide synthase like protein in mitigating oxidative burst in cyanobacterium Aphanizomenon flos-aquae 2012/KM1/D3	S5-P09

<b>HAMADA</b>	Akane	The physiological roles of glutathione-dependent ascorbate recycling network in Arabidopsis under photooxidative stress	<b>S5-P10</b>
<b>HAMZAOUI</b>	Mohamed Amine	Evaluation of the antioxidant response in durum wheat cultivars Chili and Razek with different tolerance to cadmium in short-term hydroponic experiments	<b>S5-P11</b>
<b>HUANG</b>	Jingjing	Uncovering cysteine sulfinic acid signaling by novel sulfiredoxin substrate discovery in Arabidopsis	<b>S5-P12</b>
<b>JOHANSSON</b>	Alexander	What role(s) for Reactive Oxygen Species (ROS) in the connections between abiotic stress and symbiotic signaling?	<b>S5-P13</b>
<b>JONAK</b>	Claudia	Stress tolerance mechanisms of the climate-resilient food, feed, and bioenergy crop <i>Camelina sativa</i>	<b>S5-P14</b>
<b>KANT</b>	Kamal	The Arabidopsis PPR40 Mutants Display Enhanced Tolerance to Water Deficit	<b>S5-P15</b>
<b>KERCHEV</b>	Pavel	Role of SAGA components in epigenetic reprogramming during abiotic stress responses	<b>S5-P16</b>
<b>KRAWCZYK</b>	Katarzyna	Identifying the role of peroxisomal transport protein by phenotyping Arabidopsis thaliana mutants	<b>S5-P17</b>
<b>MARUTA</b>	Takanori	Physiological impacts of Vitamin C Defective 3 on ascorbate metabolism and photooxidative stress acclimation in Arabidopsis	<b>S5-P18</b>
<b>MATEUS</b>	Pedro	Enhancing <i>Castanea sativa</i> Miller resilience to climate change: mycorrhization as a solution	<b>S5-P19</b>
<b>MITTLER</b>	Ron	The ROS wave and its role in cell-to-cell and systemic signaling in different biological systems	<b>S5-P20</b>
<b>MU</b>	Xiujie	Involvement of ROS signaling in the response to water stress of Arabidopsis seeds during germination	<b>S5-P21</b>
<b>OTTAWAY</b>	Maarten	Impact of Zn on the ectomycorrhizal interaction of <i>Laccaria bicolor</i> and <i>populus tremula x alba 717-1B4</i>	<b>S5-P22</b>
<b>RABILU</b>	Sahilu Ahmad	Functional characterization of Small Paraquat resistance proteins (SPQ)	<b>S5-P23</b>
<b>REICHHELD</b>	Jean-Philippe	ROXY19, an evolutionary conserved land plant glutaredoxin involved in primary root growth associated with drought stress tolerance in pearl millet	<b>S5-P24</b>
<b>ROACH</b>	Thomas	Are ROS involved in developmental leaf senescence?	<b>S5-P25</b>
<b>ROMERO-PUERTAS</b>	María C.	Deciphering the role of Acyl CoA oxidase in the regulation of cadmium uptake and translocation in Arabidopsis plants	<b>S5-P26</b>
<b>SATO</b>	Satsuki	The cytosolic APX/DHAR coupling promotes glutathione oxidation to regulate DNA damage response and cell death under oxidative stress	<b>S5-P27</b>
<b>SHABALA</b>	Sergey	Tissue-specificity of ROS-induced K <sup>+</sup> and Ca <sup>2+</sup> fluxes in succulent stems of the perennial halophyte <i>Sarcocornia quinqueflora</i> in the context of salinity stress tolerance	<b>S5-P28</b>
<b>SOUSA</b>	Bruno	Transcriptional dynamics of tomato plants under combined salt and heat stress	<b>S5-P29</b>
<b>YAMAMOTO</b>	Kojiro	Metabolism of ascorbate degradation products under darkness and oxidative stress	<b>S5-P30</b>
<b>ZHU</b>	Shuhua	Regulation by Nitric Oxide on Mitochondrial DNA Oxidative Damage in Peach Fruit	<b>S5-P31</b>
<b>ZSIGMOND</b>	Laura	Engineering of rapeseed for climate change: improvement of drought tolerance with a small protein	<b>S5-P32</b>