

PROGRAM OF THE CONFERENCE

Sunday 8th September

16h30-19h - Registration

19h30 - Welcome Cocktail

Monday 9th September

8h45	Welcome session - Jérémy Couturier and Nicolas Rouhier
S-metabolism session 1 Chair: Stanislav Kopriva	
9h-9h30	Jutta Papenbrock - Sulfotransferases and their role in glucosinolate biosynthesis analyzed in various stress conditions
9h30-10h	Jon Mueller - Sulfation of Steroids in Humans - Conferring Directionality
10h-10h20	Patrick Lehr - Sulfur fertilization enhances drought stress response
10h20-10h40	Anna Wawrzynska - LSU proteins enhance sulfate assimilatory pathway flux in <i>Arabidopsis thaliana</i>
10h45	Coffee break
11h10- 11h40	Silke Leimkühler - 2-Thiouridylases for tRNA in pro- and eukaryotes
11h40-12h10	Ann Cuypers - How sulfur allocation impacts plant responses to cadmium stress: from signalling to acclimation
12h10-12h30	Daniela Ristova - Interaction of S homeostasis with N signaling in <i>Arabidopsis thaliana</i>
12h30-12h50	Takehiro Ito - Elucidation of glutathione degradation pathway in <i>Arabidopsis thaliana</i>
13h-14h30	Lunch
S-metabolism session 2 Chair: Luis Romero	
14h45-15h15	Claus Jacob - Harnessing the power of sulfur: redox catalysis, nanotechnology and biomedical innovations
15h15-15h45	Takaaki Akaike - Metabolism and redox signal regulation by supersulfides
15h45-16h05	Shingo Kasamatsu - Development of mass spectrometry-based supersulfidomics and its potential: alternations in supersulfide production during the germination of broccoli sprouts
16h05-16h25	Suvajit Basu - Exploring uncharted territories: new genes for sulfur starvation responses in plants
16h30	Coffee break
17h	Poster Session
18h	Plenary Session Chair: Stanislav Kopriva Kazuki Saito - A 35-year journey in plant sulfur research: a personal perspective
19h30	Dinner

Tuesday 10th September

Redox regulation session 1 Chair: Marcel Deponte	
9h-9h30	Stefanie Müller-Schüssele - Class I glutaredoxins in plastid oxidative stress: repair crew or regulators?
9h30-10h	Günter Schwarz - Molybdenum in health and disease: Thiol and sulfide signaling in metabolism and synapse function
10h-10h20	Ayaka Kinno - Analysis of pathological progression-dependent changes of supersulfides production in the brain tissues of mouse models of Alzheimer's disease
10h20-10h40	Natacha Donnay - The plant DCC1 are atypical thioredoxins with a holdase activity
10h45	Coffee break
11h10- 11h40	Tobias Dick - Site-specific activation of proton pump inhibitors by tetrathiolate zinc centers
11h40-12h10	Jose Ugalde - Decoding the function of Tau Glutathione S-transferases: GSTU24 and GSTU25 in Arabidopsis
12h10-12h30	Ginevra Peppi - Functional insights into the catalytic and redox-based regulatory properties of AKR4Cs from Arabidopsis thaliana
12h30-12h50	Laura Morette - Phylogenetical, biochemical and structural insights into the iota glutathione transferase from the cyanobacteriota Synechocystis sp. pcc 6803, an atypical glutathione transferase exhibiting an unexpected FMN-binding domain
13h-14h30	Lunch
H ₂ S signalling session Chair: Cecilia Gotor	
14h45-15h15	Ruma Banerjee - Sulfide signaling and mitochondrial redox metabolism
15h15-15h45	Angeles Aroca - Hydrogen sulfide: a key ally in adapting to climate change
15h45-16h05	Benjamin Selles - The complex interaction network of human sulfurtransferases with H ₂ S oxidation pathway proteins
16h05-16h25	Tatjana Hildebrandt - Compartmentalization of cysteine metabolism in plants affects stress signaling
16h30	Coffee break
17h	Poster Session
18h	Plenary Session Chair: Guenter Schwarz Milos Filipovic - Protein persulfidation enters a new phase
19h30	Dinner

Wednesday 11th September

Redox regulation session 2 Chair: Nicolas Rouhier	
9h-9h30	Marcel Deponte - How do glutaredoxins reduce non-glutathione disulfides?
9h30-10h	Mirko Zaffagnini - The intricate relationships between glutathione and proteins: interaction and redox modulation
10h-10h20	Sophie Hendrix - Glutathione peroxidase-like 8 (GPXL8): a new player in H ₂ O ₂ signaling in <i>Arabidopsis thaliana</i> ?
10h20-10h40	Zhichao Liu - Biochemical characterization of thioredoxin-related protein Clot/TRP14 of <i>Populus trichocarpa</i>
10h45	Coffee break
Glucosinolates session Chair: Jutta Papenbrock	
11h10-11h40	Masami Hirai - Plant survival strategies responding to environmental stress by controlling sulfur allocation
11h40-12h10	Luke Bell - The role of sulfur in salad rocket (<i>Eruca vesicaria subsp. sativa</i>) nutritional and sensory quality
12h10-12h30	Christian Zörb - Glucosinolates in Kohlrabi after nitrogen fertilization increase as detected by a NIRS method
12h30-12h50	Georgios Stylianidis - Sulfur-based biofortification of wheat with iron: cysteine-based biofortification schemes
13h-14h30	Lunch
Emerging topics session Chair: Jean-Pierre Jacquot	
14h45-15h15	Andreas Meyer - Lipoylation overkill: boosting lipoylation capacity causes the release of sulfide
15h15-15h45	Stéphane Lemaire - Synthetic and systems biology of carbon fixation in <i>Chlamydomonas</i>
15h45-16h05	Uladzimir Barayeu - NOS produces cyclic octasulfur that enables protection against lipid peroxidation in lipid droplets
16h05-16h25	Eve-Lyn Hinckley - Sulfur: a major element undergoing global change
16h30	Closing session Jérémy Couturier and Nicolas Rouhier
17h	Coffee break
17h30	Guided tour of Abbey
20h	Conference Dinner