

Wednesday, August 24, 2022

08:30 – 09:00 Welcome Session (*De Markt*)

POG & SFRR-E Joint Symposium 1 – Redox signaling and antioxidants in plants and human health (*De Markt*)
Chairs: Frank Van Breusegem (University of Ghent, Belgium) and Joël Pincemail (University of Liège, Belgium)

09:00 – 09:20 Nicholas Smirnov (University of Exeter, UK)
Shining a light on ascorbate metabolism

09:20 – 09:40 Karl-Josef Dietz (University of Bielefeld, Germany)
Thiol peroxidases in plant redox sensing and metabolic tuning

09:40 – 10:00 Anna Boronat (Pompeu Fabra University, Barcelona, Spain)
The role of dietary phenolic compounds on the modulation of endothelial function

10:00 – 10:20 Jan Frederik Stevens (Oregon State University, Corvallis, USA)
Hop polyphenols for mitigating metabolic syndrome

10:20 – 10:30 Discussion

10:30 – 11:00 Coffee break & Posters & Exhibition (*Brasserie & Binnenkoer*)

POG & SFRR-E Joint Keynote Lectures (*De Markt*)
Chairs: Karl-Josef Dietz (University of Bielefeld, Germany) and Josiane Cillard (ENS Rennes, France)

11:00 – 11:45 Ron Mittler (University of Missouri, USA)
ROS and redox signaling in cell-to-cell and systemic responses of plants

11:45 – 12:30 Helmut Sies (University of Düsseldorf, Germany)
Physiological redox balance: Oxidative eustress

SFRR-E Annual Award Lecture (*De Markt*)
Chairs: Daniela Caporossi (University of Foro Italico, Italy) and Michael J Davies (University of Copenhagen Denmark)

12:30 - 13:00 Dean Jones (Emory University, Atlanta, USA)
Redox Organization of Living Systems

POG Opening Lecture (*De Lieve*)
Chair: Claire Remacle (University of Liège, Belgium)

12:30 - 13:00 Marc Van Montagu (University of Ghent, Belgium)
Lessons learned from plant evolution

13:00 – 14:00 Lunch & Posters & Exhibition (*Brasserie & Binnenkoer*)

SFRR-E Elsevier Basic Science Award Lecture (*De Markt*)
Chairs: Juan Sastre (University of Valencia, Spain) and Tilman Grune (Nuthetal, Germany)

14:00 – 14:30 Santiago Lamas (Spanish Higher Council of Scientific Research, Madrid, Spain)
Role of metabolism and bioenergetics in the pathophysiology of organ fibrosis

SFRR-E Symposium 1 – Bench to bedside transition for pharmacological regulation of NRF2 in non-communicable diseases (*De Markt*)
Chairs: Antonio Cuadrado (Autonomous University of Madrid, Spain) and Giovanni E. Mann (King's College London, UK)

14:30 – 15:00 Albenka Dinkova-Kostova (University of Dundee, UK)
The role of NRF2 for mitochondrial adaptation in inflammatory macrophages

15:00 – 15:30 Anna-Liisa Levenon (University of Eastern Finland, Finland)
Identifying therapeutic vulnerabilities in NRF2 dependent cancers

15:30 – 16:00 Antonio Cuadrado (Autonomous University of Madrid, Spain)
Targeting the NRF2/betaTrCP axis in liver disease

POG Session 1 - Concepts and Directions in Redox Signaling Research in plants (*De Lieve*)
Chair: Marc Van Montagu (University of Ghent, Belgium)

14:00 – 14:40 Christine H. FOYER (University of Birmingham, UK)
Roles for redox processes in adaptation to a high CO2 world

14:40 – 15:05 Szilvia Z. TOTH (Biological Research Centre, Szeged, Hungary)
Chloroplastic ascorbate content is a modulator of the plant metabolome

15:05 – 15:30 Jérémy COUTURIER (Université de Lorraine, France)
3-mercaptopyruvate sulfurtransferases: new actors in sulfur trafficking and H2S mediated-redox signaling in plants?

15:30 – 15:55 Patrick WILLEMS (Ghent University, Belgium)
Monitoring the degree of cysteine oxidation using data-independent acquisition

16:00 – 16:30 Coffee & Posters & Exhibition (*Brasserie & Binnenkoer*)

SFRR-E Young Investigator Award Session (*De Markt*)
Chairs: Niki Chondrogianni (National Hellenic Research Foundation, Athens, Greece) and Carmen Veith (University of Maastricht, Netherlands)

16:30 – 16:45 Timoteo Marchini (University of Buenos Aires, Argentina)
Redox and inflammatory mechanisms linking urban air pollution PM2.5 exposure and cardiometabolic derangements

16:45 – 17:00 Nikos Margaritelis (Aristotle University of Thessaloniki, Greece)
Methodological, statistical and interpretive considerations in personalised redox biology

17:00 – 17:15 Sergio Rius Pérez (University of Valencia, Spain)
p53 triggers necroptosis through loss of sulfiredoxin in acute pancreatitis

17:15 – 17:30 Gabriela Warpsinski (King's College London, UK)
Culturing bEnd.3 brain microvascular endothelial cells in normoxic conditions has direct consequences to hypoxia-reoxygenation injury

17:30 – 17:45 Tamara Zakic (University of Belgrade, Serbia)
Structural and redox-metabolic remodelling of brown adipose tissue in mice lacking nuclear factor erythroid 2-related factor 2 under basal conditions and cold acclimation

17:45 – 18:00 Veronica Lisi (University of Rome Foro Italico, Italy)
Protective role of plasma EVs cargo released before and after endurance exercise on human iPS-derived cardiomyocytes in prooxidant conditions.

POG Session 2 – ROS, RNS and redox-active gases in development and plant physiology (*De Lieve*)
Chair: Christine H. Foyer (University of Birmingham, UK)

16:30 – 17:10 Romy SCHMIDT (University of Bielefeld, Germany)
Integration of redox signals into hypoxia signaling in Arabidopsis thaliana

17:10 – 17:35 Eliana MOLINA MOYA (Estación Experimental del Zaidín (CSIC), Granada, Spain)
NO and Phytooglobins role in Arabidopsis-Fusarium oxysporum interaction

17:35 – 18:00 Yosef FICHMAN (University of Missouri, USA)
Phytochrome B regulates reactive oxygen signaling during abiotic and biotic stress in plants

18:00 – 18:25 Gad MILLER (Bar Ilan University, Israel)
Pollen fertility and the role of ROS and redox homeostasis in heat stress tolerance during sexual reproduction

18:25 – 18:50 Stanislaw KARPINSKI (Warsaw University of Life Sciences (SGGW), Poland)
Aboveground plant-to-plant electrical signaling and ROS waves regulates network and systemic acquired acclimation

SFRR-E Guided Poster Presentations (*Binnenkoer*)
Chairs: TBA

18:00 – 19:30 Parallel sessions (each poster 3' presentation & 2' discussion)

POG Elevator Pitch Session (*De Lieve*)
Chair: Romy Schmidt (University of Bielefeld, Germany)

18:50 – 19:30 8x5' To be selected

POG Poster Session (*Binnenkoer*)
 19:30 – 20:00

20:30 – ... Welcome Reception (*De Markt*)

Thursday, August 25, 2022

SFRR-E & POG Sunrise Seminar (*De Markt*)

Chairs: Michael J. Davies (University of Copenhagen, Denmark) and Paraskevi Kritsiligkou (DKFZ, Heidelberg, Germany)

08:00 - 09:00 **Tilman Grune (Nuthetal, Germany) and Lydia Briggs (Elsevier)**
How to write a great scientific paper and get it accepted

SFRR-E Symposium 2 – Post-translational modification of proteins in health and disease (*De Markt*)

Chairs: Michael J. Davies (University of Copenhagen, Denmark) and Niki Chondrogianni (National Hellenic Research Foundation, Athens, Greece)

09:00 – 09:30 Michael J. Davies (University of Copenhagen, Denmark)
Characterization and quantification of post-translational modifications on proteins in cardiovascular disease

09:30 – 10:00 Niki Chondrogianni (National Hellenic Research Foundation, Athens, Greece)
Identification of compounds derived from the Greek flora with anti-aggregation properties

10:00 – 10:30 Eduardo Fuentes-Lemus (University of Copenhagen, Denmark)
Macromolecular crowding and micro-domains as modulators of protein oxidation

POG Session 3 – Redox Signaling in the abiotic stress response of plants (*De Lieve*)

Chair: Maria C. Romero-Puertas (University of Granada, Spain)

09:00 – 09:40 Ann CUYPERS (University of Hasselt, Belgium)
The cellular redox status and signal transduction in cadmium-induced acclimation responses

09:40 – 10:05 Triini VAHISALU (University of Helsinki, Finland)
OZ.26 is a novel receptor central for plant abiotic and biotic stress tolerance

10:05 – 10:30 Jean-Philippe REICHHELD (CNRS UMR5096, Perpignan, France)
Glutathione-mediated redox regulation of plant response to high temperature

10:30 – 11:00 Coffee break & Posters & Exhibition (*Brasserie & Binnenkoer*)

SFRR-E Symposium 3 – Redox mechanisms in neurodegenerative disorders - From genes to proteins quality and propagation (*De Markt*)

Chairs: Charles Ramassamy (National Institute of Scientific Research, Laval, Canada) and Josiane Cillard (University of Rennes I, France)

11:00 – 11:30 Charles Ramassamy (National Institute of Scientific Research, Laval, Canada)
Effect of APOE ε4 allele and redox signature in circulating extracellular vesicles in cognitively impaired patients converted to Alzheimer's disease

11:30 – 12:00 Maria Perluigi (Sapienza University of Rome, Italy)
Trisomy 21 and aberrant redox homeostasis: a synergistic path to Alzheimer disease

12:00 – 12:30 Fabio Di Domenico (Sapienza University of Rome, Italy)
Deciphering the noxious relationship between oxidative stress and the unfolded protein response in Alzheimer-like neuropathology

SFRR-E Symposium 4 – Oxidative stress in the pathogenesis and clinical management of COVID-19 (*De Lieve*)

Chairs: Francesco Galli (University of Perugia, Italy) and Joël Pincemail (University of Liège, Belgium)

11:00 – 11:30 Mirko Paiardini (Yerkes National Primate Research Center, Emory University, Atlanta, USA)
Understanding and targeting inflammation in SARS-CoV-2 and HIV infections

11:30 – 12:00 Luc Schomburg (Charité- Universitätsmedizin, Berlin, Germany)
The importance of zinc and selenium for COVID-19 survival and SARS vaccination success

12:00 – 12:30 Anne-Françoise Rousseau (University Hospital of Liège, Belgium)
Long term outcomes after a critical COVID-19: Clinical and biological perspectives

POG Session 4 – Redox signaling in (a)biotic stress responses (*De Lieve*)

Chair: Ann Cuypers (University of Hasselt, Belgium)

11:00 – 11:40 Gary LOAKE (University of Edinburgh, UK)
S-nitrosylation regulates immunity against infection across kingdoms

11:40 – 12:00 Laura ZSIGMOND (Biological Research Centre, Szeged, Hungary)
Characterization of mitochondrial electron transport mutants under stress conditions

12:00 – 12:20 Pablo ALBERTOS (University of Salamanca, Spain) [YIA]
ANAC089 transcription factor is an ABA and redox molecular player during seed germination and stress

12:20 – 12:40 José Manuel UGALDE (University of Bonn, Germany)
Endoplasmic reticulum oxidoreductin (ERO) provides resilience against reductive stress and hypoxic conditions by mediating luminal redox dynamics

12:40 – 13:00 Sabine LÜTHJE (University of Hamburg, Germany)
Cellular responses of maize roots to long-term cadmium exposure: Alterations in class III peroxidases, tonoplast and plasma membrane sub-proteomes

SFRR-E Catherine Pasquier Award Lecture (*De Markt*)

Chairs: Clare Hawkins (University of Copenhagen, Denmark) and Nesrin Kartal-Ozer (Marmara University, Turkey)

12:30 – 13:00 Carlos Henriquez Olguin (University of Copenhagen, Denmark)
Illuminating the role of compartmentalized H2O2 signaling in skeletal muscle stress-adaptations

13:00 – 14:00 Lunch & Posters & Exhibition (*Brasserie & Binnenkoer*)

SFRR-E Oral Presentations Sessions 1- Redox Biology in Inflammation and Immunity (*De Markt*)

Chairs: Dolores Sala-Perez (CSIC, Madrid, Spain) and Bato Korac (University of Belgrade, Serbia)

14:00 – 14:12 Andreas Daiber (University of Mainz, Germany)
Cardio-Pulmonary Consequences of Synergistic Exposure to Particulate Matter and Noise pollution

14:12 – 14:24 Maximilien Euler (Friedrich-Alexander-University, Erlangen, Germany) [YIA]
Amplification of ROS/NET formation induces resolution of inflammation

14:24 – 14:36 Clare L. Hawkins (University of Copenhagen, Denmark)
Mapping the modification of histones by the myeloperoxidase-derived oxidant hypochlorous acid (HOCl)

14:36 – 14:48 Valery Bochkov (University of Graz, Austria)
Gain of function effects of oxidized phospholipids make them pharmacological targets and leads

14:48 – 15:00 Johannes Wild (University of Mainz, Germany) [YIA]
Myeloid cell derived Interleukin-6 causes vascular dysfunction, inflammation and endothelin-1 expression in mice

SFRR-E Oral Presentations Sessions 2 – Redox Biochemistry (*De Lieve*)

Chairs: Aleksandra Jankovic (University of Belgrade, Serbia) and Isabela Sadowska-Bartosz (University of Rzeszow, Poland)

14:00 – 14:12 Rosa María Mateos (University of Cadiz, Spain)
Erythrocyte catalase S-nitrosation as a sensor of chronic subclinical oxidative stress and metabolic complications associated with childhood obesity

14:12 – 14:24 Tania Medalia (Sorbonne University, Paris, France)
Role of the Thioredoxin-1 in heart failure

14:24 – 14:36 Lise Molinelli (Aix-Marseille University, France)
A chemoproteomic approach to identify redox-active methionines in secreted proteins of saprophytic fungi during biomass degradation

14:36 – 14:48 Alexander Montoya-Arroyo (University of Hohenheim, Stuttgart, Germany) [YIA]
Identification of 11'-α-tocomenol in the microalgae *Monodopsis subterranea* and effect of nitrogen depletion on its tocomenol content

14:48 – 15:00 Lionel Tarrago (Aix-Marseille University, France)
Characterization of the copper chaperone PcuC as substrate of the periplasmic methionine sulfoxide reductase MsrP in *Cereibacter sphaeroides*.

POG Session 5 – Oxidative stress in algae and symbiotic organisms (*De Lieve*)

Chair: Gary Loake (University of Edinburgh, UK)

14:00 – 14:40 M. Esther PEREZ-PEREZ (University of Sevilla, Spain)
New insights into the redox regulation of autophagy in the single-cell microalga *Chlamydomonas reinhardtii*

14:40 – 15:05 Anna CACCAMO (University of Liege, Belgium)
Ascorbate peroxidase 2 of *Chlamydomonas reinhardtii* is involved in the regulation of the plastocyanin levels

15:05 – 15:30 Stéphane ROBERTY (University of Liege, Belgium)
Influence of nitrogen availability and form on sensitivity to heat and light stress in coral endosymbionts

15:30 – 15:55 Pierre FRENDO (Université Côte d'Azur, France)
Redox-sensitive fluorescent biosensors detect the symbiotic bacteria *Sinorhizobium meliloti* intracellular redox changes under free-living and symbiotic lifestyles

SFRR-E Oral Presentations Sessions 3 – Redox Biology of Neurodegenerative and Infectious Diseases (*De Markt*)

Chairs: Anne Negre-Salvayre (University of Toulouse, France) and Giuseppe Valacchi (University of Ferrara, Italy)

15:00 – 15:12 Francesco Galli (University of Perugia, Italy)
Abnormalities of the cellular redox associated with the cytopathic and proinflammatory effects of SARS-CoV2 infection

15:12 – 15:24 Mariana Holubiec (IIBBA, Buenos Aires, Argentina)
APP mutations give rise to redox related mitochondrial

SFRR-E Oral Presentations Session 4 – Experimental Models in Redox Biology (*De Lieve*)

Chairs: Fabio Virgili (CREA, Italy) and Andreas Daiber (University of Mainz, Germany)

15:00 – 15:12 Sander Bekeschus (Leibniz Institute, Greifswald, Germany) [YIA]
Expression signatures associated with oxidative stress sensitivity in 30 human cancer cell lines

15:12 – 15:24 Raúl Gonzalez Ojeda (National University of Ireland Galway, Ireland)
The role of microRNA and oxidised microRNA-133 in muscle

<p>alterations</p> <p>15:24 – 15:36 Romina Antonella Medeiros Figueredo (University of the Republic, Montevideo, Uruguay) [YIA] Development of ELISA for the detection of nitro-oxidative stress biomarkers</p> <p>15:36 – 15:48 Alessandra Pecorelli (North Carolina State University, Kannapolis, USA) A possible role for the loss of brain Scavenger Receptor B1 (SR-B1) in Rett syndrome</p> <p>15:48 – 16:00 Izabela Sadowska-Bartosz (University of Rzeszow, Poland) Overexpression of the tau protein alters the redox equilibrium of SH-SY5Y cells</p>	<p>wasting during ageing and cachexia</p> <p>15:24 – 15:36 Valeria Scalcon (University of Padua, Italy) [YIA] Insights into the mitochondrial functions of glutaredoxin 2 in cellular and mouse models</p> <p>15:36 – 15:48 Shuqi Xu (University of Copenhagen, Denmark) Identification and quantification of nitration and oxidation sites in extracellular matrix from human coronary artery smooth muscle cells treated with peroxynitrous acid (ONOOH)</p> <p>15:48 – 16:00 Holger Steinbrenner (Friedrich-Schiller-Universität Jena, Germany) SELENBP1 and SEMO-1: copper-dependent H2S-generating enzymes in humans and in the model organism C. elegans</p>	
<p>16:00 – 16:30 Coffee & Posters & Exhibition (Brasserie & Binnenkoer)</p>		
<p>SFRR-E Leopold Flohe Award Lecture (De Markt) <i>Chairs: Giovanni Mann (Kings College, London, UK) and Enrique Cadenas (University of Southern California, USA)</i></p> <p>16:30 – 17:00 Emrah Eroğlu (Sabanci University, Istanbul, Turkey) Multiparametric imaging with genetic biosensors and chemogenetic tools: Golden keys to redox biology</p>		<p>POG Session 6 – Reactive oxygen species and organellar signaling (De Lieve) <i>Chair: Esther Perez (University of Sevilla, Spain)</i></p>
<p>SFRR-E Symposium 5 – Oxysterols in health and disease (De Markt) <i>Chairs: Irundika Dias (Aston University, Birmingham, UK) and Giuseppe Poli (University of Turin, Italy)</i></p> <p>17:00 – 17:30 Gérard Lizard (University of Bourgogne, Dijon, France) Oxysterols-induced oxidative stress, mitochondrial and peroxisomal dysfunctions: potential consequences on age-related diseases</p> <p>17:30 – 18:00 Paola Gamba (University of Turin, Italy) Focus on the controversial Role of 24-hydroxycholesterol in Alzheimer's disease</p> <p>18:00 – 18:30 Irundika Dias (Aston University, Birmingham, UK) Sulfated oxysterols in ageing and neurodegeneration</p>	<p>SFRR-E Symposium 6 – Natural bioactives in redox homeostasis: from food to health (De Leie) <i>Chairs: Valérie Schini-Kerth (University of Strasbourg, France) and Cesar G. Fraga (University of California, Davis, USA)</i></p> <p>17:00 – 17:30 Pedro Mena (University of Parma, Italy) Metabolism of polyphenols (by mammalian cells and host microbiota); significance in the production of physiological relevant metabolites</p> <p>17:30 – 18:00 Valérie Schini-Kerth (University of Strasbourg, France) Potential of Natural Products to target senescent endothelial cells Role of the eNOS/NO-ROS pathway</p> <p>18:00 – 18:30 Patricia Oteiza (University of California, Davis, USA) Lifestyle and epigenetics in metabolic disorders: participation of redox signaling and actions of anthocyanins</p>	<p>16:30 – 17:10 Olivier VAN AKEN (University of Lund, Sweden) The different ways in which plants (try to) keep a happy mitochondrial pool</p> <p>17:10 – 17:35 Su-Mai YU (Academia Sinica, China) Mitochondrial retrograde signaling regulates hypoxia tolerance in rice</p> <p>17:35 – 18:00 Finja BOHLE (Technical University Kaiserslautern, Germany) Chloroplasts lacking class I glutaredoxins - Unraveling the function of GRXC5 in Physcomitrium patens</p> <p>18:00 – 18:25 Linda DE BONT (Université de Lorraine, France) Redox properties of the plant atypical thioredoxin DCC1</p> <p>18:25 – 18:50 Inge DE CLERCQ (Ghent University, Belgium) Interactomics and chemical genomics-based approaches for the elucidation of mitochondrial retrograde signaling pathways</p>
<p>18.30 - 19:30 SFRR-E General Assembly (De Leie)</p>		<p>POG Poster Session (Binnenkoer) 19:00 – 20:00</p>
<p>20:30 – ... Conference Dinner (De Markt)</p>		

Friday, August 26, 2022

SFRR-E & POG Sunrise Seminar

Chairs: Daniela Caporossi (University of Foro Italico, Italy) and Carlos Henriquez Olguin (University of Copenhagen, Denmark)

08:00 – 09:00 Giuseppe Valacchi (University of Ferrara, Italy)
Experimental models in science: when and how to choose the right one

SFRR-E Symposium 7 – The elusive roles of nitric oxide in the brain: From signaling to neurodegeneration (De Markt)

Chairs: Joern Steinert (University of Nottingham, UK) and João Laranjinha (University of Coimbra, Portugal)

09:00 – 09:30 Manish Kumar Tripathi (Hebrew University of Jerusalem, Israel)
The role of nitric oxide in autism spectrum disorder

09:30 – 10:00 Konstantina Chachlaki (INSERM, Lille, France)
Nitric Oxide deficiency linking a defective minipuberty to the appearance of comorbidities: new therapeutic possibilities

10:00 – 10:30 Joern Steinert (University of Nottingham, UK)
NO-mediated neuroinflammatory pathways as treatment targets in neurodegeneration

POG Session 7 – ROS/RNS signaling in the nucleus (De Lieve)

Chair: Olivier Van Aken (University of Lund, Sweden)

09:00 – 09:40 Alison BAKER (University of Leeds, UK)
Nuclear targeting of catalase in Arabidopsis

09:40 – 10:05 Avilien DARD (Université de Perpignan Via Domitia, France)
Redox regulation of histone acetylation in response to environmental stress in *A. thaliana*

10:05 – 10:30 Christian LINDERMAYR (Institute of Biochemical Plant Pathology, Munich, Germany)
Redox-Regulation of Histone Deacetylation in *Arabidopsis thaliana*

10:30 – 11:00 Coffee & Posters & Exhibition (Brasserie & Binnenkoer)

SFRR-E Early Career Research Symposium (De Markt)

Chairs: Valeria Scalcon (University of Padua, Italy) and Andjelika Kalezic (University of Belgrade, Serbia)

11:00 – 11:15 Ivana Djordjevic (University Medical Center Mainz, Germany) [YIA]
Changes in NADPH oxidase activity in E-cigarette vapor condensate exposed cultured cells and the role of acrolein

11:15 – 11:30 Anna Gioran (National Hellenic Research Foundation, Athens, Greece) [YIA]
Proteasome activation in *C. elegans* causes mild mitochondrial defects; Is this the link to lifespan extension?

11:30 – 11:45 Anna Guiotto (University of Ferrara, Italy) [YIA]
Evidence of ferroptosis involvement in Rett syndrome pathogenesis

11:45 – 12:00 Daniela Mendes (University of Porto, Portugal) [YIA]
SC-Nanophytosomes formulation promotes benefits on Parkinson's disease models: a mitochondria-targeted therapy approach

12:00 – 12:15 Brandán Pedre (KU Leuven, Belgium) [YIA]
Generation of genetically-encoded redox biosensors for super-resolution imaging of hydrogen peroxide production

12:15 – 12:30 Andrea Perrelli (University of Rochester, New York, USA) [YIA]
Avenanthramides: antioxidant and anti-inflammatory activities from oats to human therapy

12:30 – 12:45 Andreia D. Veloso (UTAD, Vila Real, Portugal) [YIA]
Assessment of enzyme-like activity in metal-free nanomaterials

12:45 – 13:00 Bess Yi Kun Yu (University College London, UK) [YIA]
Regulation of metastasis suppressor NME1 by a key metabolic cofactor coenzyme A

POG Session 8 – Plant antioxidative systems (De Lieve)

Chair: Alison Baker (University of Leeds, UK)

11:00 – 11:40 Maria C. ROMERO-PUERTAS (University of Granada, Spain)
Peroxisome-derived retrograde signalling and dynamics

11:40 – 12:00 Stephanie FROHN (IPK Gatersleben, Germany)
Evolutionary conserved and diverged responses to copper zinc superoxide dismutase inhibition

12:00 – 12:20 Sophie HENDRIX (University of Bonn, Germany)
Unravelling plant responses to heat stress using genetically encoded biosensors

12:20 – 12:40 Cilian KOCK (University Osnabrück, Germany)
Redox dynamics in meristematic tissue of the liverwort *Marchantia polymorpha*

12:40 – 13:00 Amna MHAMDI (University of Ghent, Belgium)
EAL4 methyltransferase plays a specific role in response to oxidative stress

13:00 – 14:00 Lunch & Posters & Exhibition (Brasserie & Binnenkoer)

POG & SFRR-E Joint Symposium II – C'ing is B'lieving: Biosensors to trace redox metabolism (De Markt)

Chairs: Joris Messens (University of Brussels, Belgium) and Bruce Morgan (Saarland University, Saarbrücken, Germany)

14:00 – 14:20 Bruce Morgan (Saarland University, Saarbrücken, Germany)
Novel H₂O₂ and NADPH probes to dissect subcellular redox processes in plants

14:20 – 14:40 Alison Tebo (Howard Hughes Medical Institute-Janelia Research Campus, Ashburn, VA, USA)
Imaging cellular biochemistry using chemical-genetic tools

14:40 – 15:00 Joachim Goedhart (University of Amsterdam, The Netherlands)
Quantitative imaging of signaling with genetically encoded biosensors to study signaling in plants, yeast, and human cells

15:00 – 15:20 Markus Schwarzländer (University of Münster, Germany)
Dissecting the dynamics of major cytosolic redox systems under low oxygen stress

15:20 – 15:30 Discussion

15:30 – 16:00 Closing Session and Award Ceremony (De Markt)