



PRELIMINARY PROGRAM

Wednesday, August 24, 2022

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

POG & SFRR-E Joint Symposium I - 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

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) <i>Chairs: Juan Sastre (University of Valencia, Spain) and Tilman Grune (Nuthetal, Germany)</i> 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	POG Session 1 - Concepts and Directions in Redox Signaling Research in plants (De Lieve) <i>Chair: Marc Van Montagu (University of Ghent, Belgium)</i> 14:00 – 14:30 Christine H. Foyer (University of Birmingham, UK) Mighty oaks from little acorns grow 14:30 – 14:50 TBA – Selected from abstracts 14:50 – 15:10 TBA – Selected from abstracts 15:10 – 15:30 TBA – Selected from abstracts 15:30 – 15:50 TBA – Selected from abstracts 15:50 – 16:00 Discussion
SFRR-E Symposium 1 – Bench to bedside transition for pharmacological regulation of NRF2 in non-communicable diseases (De Markt) <i>Chairs: Antonio Cuadrado (Autonomous University of Madrid, Spain) and Giovanni E. Mann (King’s College London, UK)</i> 14:30 – 15:00 Albená Dinkova-Kostova (University of Dundee, UK) The role of NRF2 for mitochondrial adaptation in inflammatory macrophages 15:00 – 15:30 Anna-Liisa Levonen (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	
16:00 – 16:30 Coffee & Posters & Exhibition (Brasserie & Binnenkoer)	
SFRR-E Young Investigator Award Session (De Markt) <i>Chairs: : Niki Chondrogianni (National Hellenic Research Foundation, Athens, Greece) and Carmen Veith (University of Maastricht, Netherlands)</i> 16:30 – 16:42 Timoteo Marchini (University of Buenos Aires, Argentina) 16:43 – 16:55 Nikos Margaritelis (Aristotle University of Thessaloniki, Greece) 16:56 – 17:08 Sergio Rius Pérez (University of Valencia, Spain) 17:09 – 17:21 Gabriela Warpsinski (King’s College London, UK) 17:22 – 17:34 Tamara Vico (University of Buenos Aires, Argentina) 17:35 – 17:47 Tamara Zakic (University of Belgrade, Serbia) 17:48 – 18:00 Veronica Lisi (University of Rome Foro Italico, Italy)	POG Session 2 – ROS, RNS and redox-active gases in development and plant physiology (De Lieve) <i>Chair: Christine H. Foyer (University of Birmingham, UK)</i> 16:30 – 17:00 Romy Schmidt (University of Bielefeld, Germany) Integration of redox signals into hypoxia signal transduction 17:00 – 17:20 TBA – Selected from abstracts 17:20 – 17:40 TBA – Selected from abstracts 17:40 – 18:00 TBA – Selected from abstracts 18:00 – 18:20 TBA – Selected from abstracts 18:20 – 18:30 Discussion
SFRR-E Guided Poster Presentations (Binnenkoer) <i>Chairs: TBA</i> 18:00 – 19:30 Parallel sessions (each poster 3’ presentation & 2’ discussion)	POG Elevator Pitch Session (De Leie) <i>Chair: Romy Schmidt (University of Bielefeld, Germany)</i> 18:30 – 19:30 TBA
SFRR-E Poster Presenters Get-together (with refreshments) (Binnenkoer) 19:30 – 20:30	
20:30 Welcome Reception (De Markt)	



Thursday, August 25, 2022

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

08:00 – 09:00 Michael J. Davies (University of Copenhagen, Denmark) and Paraskevi Kritsiligkou (DKFZ, Heidelberg, Germany)
 Tilman Grune (German Institute of Human Nutrition Potsdam-Rehbruecke Department of Molecular Toxicology, Nuthetal, Germany)
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 Institution, Athens, Greece)
The proteasome as a major player against ageing and proteinopathies

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 Romero (University of Granada, Spain)

09:00 – 09:30 Ann Cuypers (University of Hasselt, Belgium)
The cellular redox status and signal transduction in cadmium-induced acclimation responses

09:30 – 09:50 TBA – Selected from abstracts
 09:50 – 10:10 TBA – Selected from abstracts
 10:10 – 10:30 TBA – Selected from abstracts

10:30 – 11:00 Coffee & 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

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

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)

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

Chair: Ann Cuypers (University of Hasselt, Belgium)

11:00 – 11:30 Gary Loake (University of Edinburgh)
A central role for S-nitrosylation in the regulation of plant immunity

11:30 – 11:50 TBA – Selected from abstracts
 11:50 – 12:10 TBA – Selected from abstracts
 12:10 – 12:30 TBA – Selected from abstracts
 12:30 – 12:50 TBA – Selected from abstracts
 12:50 – 13:00 Discussion

11:30 – 12:00	Marzia Pierluigi (Sapienza Univ., Italy) Trisomy21 and aberrant redox homeostasis: a synergistic path to Alzheimer Disease	12:00 – 12:30	The importance of zinc and selenium for COVID-19 survival and SARS vaccination success Anne-Françoise Rousseau (University Hospital of Liège, Belgium) Long term outcomes after a critical COVID-19: clinical and biological perspectives	
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 Catherine Pasquier Award Lecture (De Markt) <i>Chairs: Clare Hawkins (University of Copenhagen and Nesrin Kartal-Ozer</i> 12:30 – 13:00 Carlos Henriquez Olguín (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 (De Markt) <i>Chairs: Dolores Sala-Perez (CSIC, Madrid, Spain) and Bato Korac (University of Belgrade, Serbia)</i> 14:00 – 15:00 (6 x 10’)		SFRR-E Oral Presentations Sessions 2 (De Leie) <i>Chairs: Aleksandra Jankovic (University of Belgrade, Serbia) and Andreas Daiber (University of Mainz, Germany)</i> 14:00 – 15:00 (6 x 10’)		POG Session 5 – Oxidative stress in algae (De Lieve) <i>Chair: Gary Loake (University of Edinburgh, UK)</i> 14:00 – 14:30 Esther Perez–Perez (University of Sevilla, Spain) New insights into the redox regulation of autophagy in the single-cell microalga Chlamydomonas reinhardtii 14:30 – 14:50 TBA – Selected from abstracts 14:50 – 15:10 TBA – Selected from abstracts 15:10 – 15:30 TBA – Selected from abstracts 15:30 – 15:50 TBA – Selected from abstracts 15:50 – 16:00 Discussion
SFRR-E Oral Presentations Sessions 3 (De Markt) <i>Chairs: Anne Negre-Salvayre (University of Toulouse, France) and Fabio Virgili (CREA, Italy)</i> 15:00 – 16:00 (6 x 10’)		SFRR-E Oral Presentations Sessions 4 (De Leie) <i>Chairs: Isabela Sadowska-Bartos (University of Rzeszow, Poland) and Giuseppe Valacchi (University of Ferrara, Italy)</i> 15:00 – 16:00 (6 x 10’)		
16:00 – 16:30 Coffee & Posters & Exhibition (Brasserie & Binnenkoer)				
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> 16:30 – 17:00 Emrah Eroğlu (Sabanci University, Istanbul, Turkey) Multiparametric imaging with genetic biosensors and chemogenetic tools: Golden keys to redox biology				POG Session 6 – Reactive oxygen species and organellar signaling (De Lieve) <i>Chair: Esther Perez (University of Sevilla, Spain)</i> 16:30 – 17:00 Olivier Van Aken (University of Lund, Sweden) The different ways in which plants (try to) keep a happy mitochondrial pool 17:00 – 17:20 TBA – Selected from abstracts 17:20 – 17:40 TBA – Selected from abstracts 17:40 – 18:00 TBA – Selected from abstracts 18:00 – 18:20 TBA – Selected from abstracts 18:20 – 18:30 Discussion
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> 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 17:30 – 18:00 Paola Gamba (University of Turin, Italy) Focus on the controversial role of 24-hydroxycholesterol in Alzheimer's disease 18:00 – 18:30 Irundika Dias (Aston University, Birmingham, UK) Sulfated oxysterols in ageing and neurodegeneration		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> 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 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 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	
SFRR-E General Assembly (<i>De Leie</i>) 18:30 – 19:30		POG Free Poster Session (<i>Binnenkoer</i>) 18:30 – 19:30
20:30	Conference Dinner (<i>De Markt</i>)	

Friday, August 26, 2022		
SFRR-E & POG Sunrise Seminar 08:00 – 09:00 Chair: Daniela Caporossi (University of Foro Italico, Italy) and Carlos Henriquez Olguín (University of Copenhagen, Denmark) 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 (<i>De Markt</i>) Chairs: Joern Steinert (University of Nottingham, UK) and João Laranjinha (University of Coimbra, Portugal) 09:00 – 09:30 Valina L. Dawson (John Hopkins University School of Medicine, Baltimore, USA) Nitric Oxide Signaling in Neurodegeneration and Cell Death 09:30 – 10:00 Konstantina Chachlaki (INSERM, Lille, France) Associative mechanisms linking a defective mini-puberty to the appearance of mental and non-mental disorders: infantile NO replenishment as a new therapeutic possibility 10:00 – 10:30 Joern Steinert (University of Nottingham, UK) Neuroinflammation as an early contributor to degenerative signaling in the brain	POG Session 7 – ROS/RNS signaling in the nucleus (<i>De Lieve</i>) Chair: Olivier Van Aken (University of Lund, Sweden) 09:00 – 09:30 Alison Baker (University of Leeds, UK) Nuclear targeting of catalase in Arabidopsis 09:30 – 09:50 TBA – Selected from abstracts 09:50 – 10:10 TBA – Selected from abstracts 10:10 – 10:30 TBA – Selected from abstracts	
10:30 – 11:00	Coffee & Posters & Exhibition (<i>Brasserie & Binnenkoer</i>)	

SFRR-E Early Career Investigator Symposium (<i>De Markt</i>) <i>Chairs: TBA</i> 11:00 – 11:15 TBA 11:15 – 11:30 TBA 11:30 – 11:45 TBA 11:45 – 12:00 TBA 12:00 – 12:15 TBA 12:15 – 12:30 TBA 12:30 – 12:45 TBA 12:45 – 13:00 TBA		POG Session 8 – Plant antioxidative systems (<i>De Lieve</i>) <i>Chair: Alison Baker (University of Leeds, UK)</i> 11:00 – 11:30 Maria Romero-Puerto (University of Granada, Spain) Peroxisomal-dependent ROS signaling in response to stress conditions 11:30 – 11:50 TBA – Selected from abstracts 11:50 – 12:10 TBA – Selected from abstracts 12:10 – 12:30 TBA – Selected from abstracts 12:30 – 12:50 TBA – Selected from abstracts 12:50 – 13:00 Discussion	
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13:00 – 14:00 Lunch & Posters & Exhibition (<i>Brasserie & Binnenkoer</i>)			
POG & SFRR-E Joint Symposium II C’ing is B’lieving: Biosensors to trace redox metabolism (<i>De Markt</i>) <i>Chairs: Joris Messens (University of Brussels, Belgium) and Bruce Morgan (Saarland University, Saarbrücken, Germany)</i> 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) Live cell imaging with chemogenetic fluorescent tags 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) Monitoring electron flow through hubs of the plant cell redox network” 15:20 – 15:30 Discussion			
Closing Session and Award Ceremony (<i>De Markt</i>) 15:30 – 16:00 TBA			