

22nd SFRR-I Biennial Meeting

hosted by the Society for Free Radical Research - Europe

Galway, Ireland

2025

June 03 - 06

The New Era of Redox Biology:
from Basic Biochemistry to Redox Omics

Day 1 Tuesday, 3 rd June			
07:30	Registration		
09:00-09:30	Welcome (BAH)		
09:30-10:00	SFRR-I Trevor Slater Award Lecture 1 (BAH): Giovanni E. Mann (King's College London, UK) <i>Redox and nitric oxide signaling under physiological oxygen levels</i>		
10:00-10:30	SFRR-I Trevor Slater Award Lecture 2 (BAH): Michael J. Davies (University of Copenhagen, Denmark)		
10:30-11:00	Coffee/Posters/Exhibition (BAH)		
11:00-12:30	<table border="0"> <tr> <td style="vertical-align: top;"> <p>Symposium 1 (BAH): <i>In vivo redox biochemistry across the span of life</i> <u>Chairs:</u> Thomas M. Michel, Harvard University, USA Sharon Glynn, University of Galway, Ireland <u>Speakers:</u> Helmut Sies, Universität Düsseldorf, Germany <i>Essential lifelong redox reactions: from fertilization to cell death</i> Fotios Spyropoulos, Harvard University, USA <i>In utero oxidative Stress: Uncovering links to cardiomyocyte reprogramming and heart failure of prematurity</i> Marc Fransen, KU Leuven, Belgium <i>Peroxisome dysfunction and hydrogen peroxide signaling in age-related pathologies</i></p> </td> <td style="vertical-align: top;"> <p>Symposium 2 (HBB): <i>Role of redox regulation in neural differentiation</i> <u>Chairs:</u> Christian Gonzalez-Billault, Universidad de Chile, Chile Carsten Berndt, Heinrich-Heine University, Germany <u>Speakers:</u> Shahad Albadri, INSERM, France <i>Redox signaling in retinal progenitor cell differentiation</i> Carsten Berndt, Universität Düsseldorf, Germany <i>Glutaredoxin-mediated differentiation of neural stem/progenitor cells</i> Christian Gonzalez-Billault, Universidad de Chile, Chile <i>NADPH functions in neural cells: lessons from neurons and microglia</i></p> </td> </tr> </table>	<p>Symposium 1 (BAH): <i>In vivo redox biochemistry across the span of life</i> <u>Chairs:</u> Thomas M. Michel, Harvard University, USA Sharon Glynn, University of Galway, Ireland <u>Speakers:</u> Helmut Sies, Universität Düsseldorf, Germany <i>Essential lifelong redox reactions: from fertilization to cell death</i> Fotios Spyropoulos, Harvard University, USA <i>In utero oxidative Stress: Uncovering links to cardiomyocyte reprogramming and heart failure of prematurity</i> Marc Fransen, KU Leuven, Belgium <i>Peroxisome dysfunction and hydrogen peroxide signaling in age-related pathologies</i></p>	<p>Symposium 2 (HBB): <i>Role of redox regulation in neural differentiation</i> <u>Chairs:</u> Christian Gonzalez-Billault, Universidad de Chile, Chile Carsten Berndt, Heinrich-Heine University, Germany <u>Speakers:</u> Shahad Albadri, INSERM, France <i>Redox signaling in retinal progenitor cell differentiation</i> Carsten Berndt, Universität Düsseldorf, Germany <i>Glutaredoxin-mediated differentiation of neural stem/progenitor cells</i> Christian Gonzalez-Billault, Universidad de Chile, Chile <i>NADPH functions in neural cells: lessons from neurons and microglia</i></p>
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12:30-13:00	SFRR-E Annual Award Lecture (BAH): Daniela Caporossi (University of Rome "Foro Italico", Italy) <i>Reactive oxygen species in exercise biology: from adaptive response to cell signalling and beyond</i>		
13:00-14:30	Lunch, poster viewing, commercial exhibits (BAH, HBB)		
14:30-15:00	SFRR-I Lester Packer Award Lecture (BAH): Giuseppe Poli (University of Torino, Italy)		
15:00-16:30	Selected Oral Presentations 1 (BAH) Selected Oral Presentations 2 (HBB)		
16:30-18:30	Guided Poster Presentations with coffee		
18:30-19:30	ECR Networking		
19:30-20:30	Meet the Professors		
20:30-23:00	Welcome Reception with music and drinks		

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Day 2 Wednesday, 4 th June		
08:00-09:00	Careers beyond gender	
09:00-10:30	<p>Symposium 3 (BAH): <i>Redox regulation in inflammation and immune response</i> <u>Chairs:</u> Young-Joon Surh, Seoul National University, South Korea Giuseppe Valacchi, University of Ferrara, Italy <u>Speakers:</u> Helen R Griffiths, Swansea University, UK <i>Solving the redox riddle in resolving inflammation</i> Young-Joon Surh, Seoul National University, South Korea <i>Role of NRF2 in resolution of inflammation</i> Hong Wang, Center for Metabolic Disease Research, Lewis Katz School of Medicine, USA <i>Metabolic reprogramming and redox regulation in monocytes differentiation and metabolic disorders</i></p>	<p>Symposium 4 (HBB): <i>Zinc outside the box: new insights into function and measurement</i> <u>Chairs:</u> Sarah Chapple, King's College London, UK Fan Yang, King's College London, UK <u>Speakers:</u> Zhelong Xu, Tianjin Medical University, China <i>Roles of zinc transporters in cardiac pathophysiology</i> Patricia Oteiza, University of California, Davis, USA <i>Zinc, redox signalling and early development</i> George Firth, King's College London, UK <i>Whole-body imaging of zinc and other essential micronutrients with positron emission tomography</i></p>
10:30-11:00	Coffee/Posters/Exhibition (BAH)	
11:00-12:30	<p>Symposium 5 (BAH): <i>The key role of metabolism in fibrosis, inflammation and repair</i> <u>Chairs:</u> Isabel Fabergat, Bellvitge Biomedical Research Institute (IDIBELL), Spain Santiago Lamas, Centro de Biología Molecular Severo Ochoa, Spain <u>Speakers:</u> Natalie Torok, Stanford University, USA <i>Matrix properties and redox regulation in liver cancer</i> Santiago Lamas, Centro de Biología Molecular Severo Ochoa, Spain <i>The role of fatty acid oxidation in kidney and liver fibrosis</i> Helena Cocheme, MRC Laboratory of Medical Sciences, UK <i>Redox signalling in the regulation of metabolism and ageing</i></p>	<p>Symposium 6 (HBB): <i>Updates in plant redox biology</i> <u>Chairs:</u> Jose Manuel Ugalde, University of Bonn, Germany Sophie Hendrix, Hasselt University, Belgium <u>Speakers:</u> Oscar Lorenzo, Universidad de Salamanca, Spain <i>Sensing the neurotransmitter nitric oxide (NO) at the initial step of the N-degron pathway in plants</i> Jose Manuel Estevez, Universidad Andres Bello, Chile <i>ROS homeostasis linked to cell expansion in single plant cells</i> Anna Moseler, University of Bonn, Germany <i>Sulfurtransferase-mediated persulfidation in plants</i></p>

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12:30-13:00	SFRR-E Basic Science Award Lecture (BAH): Juan Sastre (University of Valencia, Spain) <i>Redox signaling in inflammation</i>
13:00-14:30	Lunch, poster viewing, commercial exhibits (BAH, HBB)
14:30-15:00	SFRR-I Alberto Bovis Award Lecture (BAH): Enrique Cadenas (University of Southern California, USA)
15:00-16:30	Selected Oral Presentations 3 (BAH) Selected Oral Presentations 4 (HBB)
16:30-18:30	Guided Poster Presentations with coffee
18:30-19:30	General Assembly SFRR-E

Day 3 Thursday, 5th June

08:00-09:00	Sunrise Seminar	
09:00-10:30	<p>Symposium 7 (BAH): <i>Oxidases and peroxidase enzymes in health and disease</i> <u>Chairs:</u> Michael J. Davies, University of Copenhagen, Denmark Clare Hawkins, University of Copenhagen, Denmark <u>Speakers:</u> Clare Hawkins, University of Copenhagen, Denmark <i>Role of myeloperoxidase, neutrophil extracellular traps (NETs), and modified histones in cellular dysfunction</i> Albert van der Vliet, University of Vermont, Vermont, USA <i>Oxidative mechanisms in fibrotic disease: from NADPH oxidases to peroxidase (PXDN)</i> Nina Dickerhof, University of Otago, Christchurch, New Zealand <i>Targeting hypothiocyanous acid defence mechanisms in bacteria</i></p>	<p>Symposium 8 (HBB): <i>Hypoxia research: where to now?</i> <u>Chairs:</u> Cormac Taylor, University College Dublin, Ireland Brian Ortmann, Newcastle University, UK <u>Speakers:</u> Sonia Rocha, University of Liverpool, UK <i>Oxygen sensing and chromatin biology</i> Sean Colgan, University of Colorado, USA <i>Hypoxia and Inflammation</i> Brian Ortmann, Newcastle University, UK <i>Defining the role of methylation in the cellular response to hypoxia</i></p>
10:30-11:00	Coffee/Posters/Exhibition (BAH)	
11:00-12:30	<p>Symposium 9 (BAH): <i>Supersulfides in stress responses and adaptation</i> <u>Chairs:</u> Motohiro Nishida, Kyushu University, Japan Philip Eaton, Queen Mary University of London, UK</p>	<p>Symposium 10 (HBB): <i>Protein aggregation in aging and related diseases</i> <u>Chairs:</u> Tilman Grune, German Institute of Human Nutrition Potsdam-Rehbruecke, Germany Tim Baldensperger, University of Vienna, Austria <u>Speakers:</u></p>

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	<p><u>Speakers:</u> Hozumi Motohashi, Tohoku University Graduate School of Medicine, Japan <i>Environmental stress response and sulfur metabolism</i> Uladzimir Barayeu, Max-Planck-Institut for Polymer Research, Germany <i>Evolutionarily conserved octasulfur mediates supersulfide signalling and metabolism in mammalian cells</i> Melanie Madhani, University of Birmingham, UK <i>Redox regulation of hydropersulfides from bench-to-bedside</i></p>	<p>Niki Chondrogianni, National Hellenic Research Foundation, Greece <i>Proteasome activation against protein aggregation in ageing and Alzheimer's disease</i> Alan Butterfield, University of Kentucky, USA <i>Small oligomeric aggregates of amyloid beta-peptide and brain oxidative damage: Intersection of the lipid peroxidation product HNE, glucose dysmetabolism and Alzheimer disease</i> Tim Baldensperger, University of Vienna, Austria <i>Expressed protein ligation to study effects of posttranslational modifications on protein aggregation</i></p>
12:30-13:00	<p>SFRR-E Leopold Flohé Award Lecture (BAH): Aphrodite Vasilaki (University of Liverpool, UK) <i>Physiological and structural changes in skeletal muscle and nerve-muscle interactions: the effects of ageing and nutrition</i></p>	
13:00-14:30	<p>Lunch, poster viewing, commercial exhibits (BAH, HBB)</p>	
14:30-16:00	<p>Selected Oral Presentations 5 (BAH)</p>	<p>Selected Oral Presentations 6 (HBB)</p>
16:00-16:30	<p>Coffee/Posters/Exhibition</p>	
16:30-18:00	<p>Young Investigator Award Session (BAH)</p>	
18:00-18:30	<p>Seminar How to write a paper</p>	
18:30-19:30	<p>General Assembly SFRR-I</p>	

Day 4 Friday, 6 th June		
08:00-09:00	<p>Sunrise Seminar</p>	
09:00-10:30	<p>Symposium 11 (BAH): <i>Exploring interfaces: Redox balance and neuroinflammation through the glial lense</i> <u>Chairs:</u> João Bettencourt Relvas, University of Porto, Portugal João Laranjinha, University of Coimbra, Portugal <u>Speakers:</u> Juan Bolaños, University of Salamanca, Spain <i>Astrocytic metabolism: energy or signaling?</i> João Bettencourt Relvas, University of Porto, Portugal <i>Cytoskeleton regulation of glial function: implications for neuroinflammation and neurological disease</i> Amita Sehgal, University of Pennsylvania, USA</p>	<p>Symposium 12 (HBB): <i>Redox modification of nucleic acids</i> <u>Chairs:</u> Kasia Whysall, University of Galway, Ireland Brian McDonagh, University of Galway, Ireland <u>Speakers:</u> Ken O'Halloran, University College Cork, Ireland <i>Intermittent hypoxia-induced respiratory muscle dysfunction is NADPH oxidase dependent</i> Esther Dupont-Versteegden, University of Kentucky, USA</p>

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	<i>A neuron–glia lipid metabolic cycle couples daily sleep to mitochondrial homeostasis</i>	<i>RNA oxidation in muscle ageing and inactivity</i> Maria Borja-Gonzalez , University of Ireland, Galway <i>The role of miRs and oxidised miRs in cancer cachexia</i>
10:30-11:00	Coffee/Posters/Exhibition (BAH)	
11:00-11:30	SFRR-E Catherine Pasquier Award Lecture (BAH): Paraskevi Kritsiligkou (University of Liverpool, UK) <i>Utilising tethered biosensors to uncover intracellular redox heterogeneity</i>	
11:30-12:00	SFRR-I Joanna and Kelvin Davies Rising Star Award Lecture (BAH): Carlos Henriquez-Olguin (University of Copenhagen, Denmark)	
12:00-13:00	SFRR-E ECR Fellowship Presentation (BAH)	
13:00-14:00	Discussion on current topics in redox biology and future directions/year in review (BAH)	
14:00-14:30	Closing Ceremony (BAH)	
14:30-15:00	Poster Removal, Departure	
15:00-19:00	Organised trip	