

22nd SFRR Biennial Meeting

hosted by the Society for Free Radical Research - Europe

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

Galway, Ireland

2025

June 03 - 06

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, poster viewing, exhibition (BAH, HBB)		
11:00-12:30	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> 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, Heinrich-Heine University, 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> </td> <td style="width: 50%; vertical-align: top;"> Symposium 2 (HBB): <i>Role of redox regulation in neural differentiation</i> <u>Chairs:</u> Christian Gonzalez-Billault, University of Chile, Chile Carsten Berndt, Heinrich-Heine University, Düsseldorf, Germany <u>Speakers:</u> Shahad Albadri, INSERM, France <i>Redox signaling in retinal progenitor cell differentiation</i> Carsten Berndt Heinrich-Heine University, Düsseldorf, Germany <i>Glutaredoxin-mediated differentiation of neural stem/progenitor cells</i> Christian Gonzalez-Billault, University of Chile, Chile <i>NADPH functions in neural cells: lessons from neurons and microglia</i> </td> </tr> </table>	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 , Heinrich-Heine University, 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>	Symposium 2 (HBB): <i>Role of redox regulation in neural differentiation</i> <u>Chairs:</u> Christian Gonzalez-Billault , University of Chile, Chile Carsten Berndt , Heinrich-Heine University, Düsseldorf, Germany <u>Speakers:</u> Shahad Albadri , INSERM, France <i>Redox signaling in retinal progenitor cell differentiation</i> Carsten Berndt Heinrich-Heine University, Düsseldorf, Germany <i>Glutaredoxin-mediated differentiation of neural stem/progenitor cells</i> Christian Gonzalez-Billault , University of Chile, Chile <i>NADPH functions in neural cells: lessons from neurons and microglia</i>
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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, exhibition (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	<p>Sunrise Seminar (BAH): <i>Careers beyond Gender</i> <u>Chairs:</u> Lin L. Mantell, St. John's University College of Pharmacy, New York, USA Kasia Goljanek-Whysall, University of Galway, Ireland</p>		
09:00-10:30	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <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> </td> <td style="width: 50%; vertical-align: top;"> <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> </td> </tr> </table>	<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>
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	<i>Redox signalling in the regulation of metabolism and ageing</i>	Anna Moseler , University of Bonn, Germany <i>Sulfurtransferase-mediated persulfidation in plants</i>
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, exhibition (BAH, HBB)	
14:30-15:00	SFRR-I Alberto Boveris 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 (BAH)	

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Day 3 Thursday, 5 th June			
08:00-09:00	<p>Sunrise Seminar (BAH): <i>Workshop for authors</i> <u>Chairs:</u> TBA <u>Speaker:</u> Anthony Newman, Elsevier</p>		
09:00-10:30	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <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, USA <i>Oxidative mechanisms in fibrotic disease: from NADPH oxidases to peroxidasin (PXDN)</i> Nina Dickerhof, University of Otago, Christchurch, New Zealand <i>Targeting hypothiocyanous acid defence mechanisms in bacteria</i></p> </td> <td style="width: 50%; vertical-align: top;"> <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> </td> </tr> </table>	<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, USA <i>Oxidative mechanisms in fibrotic disease: from NADPH oxidases to peroxidasin (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>
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	Melanie Madhani , University of Birmingham, UK <i>Redox regulation of hydropersulfides from bench-to-bedside</i>	<i>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>
12:30-13:00	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>	
13:00-14:30	Lunch, poster viewing, exhibition (BAH, HBB)	
14:30-15:00	Flash Talks I	Flash Talks II
15:00-16:30	Selected Oral Presentations 5 (BAH)	Selected Oral Presentations 6 (HBB)
16:30-17:00	Coffee, poster viewing, exhibition (BAH, HBB)	
17:00-18:30	Young Investigator Award Presentations (BAH)	
18:30-19:30	General Assembly SFRR-I (BAH)	

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Day 4 Friday, 6 th June			
08:00-09:00	<p>ECR Sunrise Seminar (BAH): <i>AI in Scientific Research and Publishing—Revolution or Risk?</i> Presented by ECR committee members with special guests</p> <p><u>Chairs:</u> Paraskevi Kritsiligkou, University of Liverpool, UK, Vanessa Cepas López, University of Turin, Italy</p>		
09:00-10:30	<table border="0"> <tr> <td style="vertical-align: top;"> <p>Symposium 11 (BAH): <i>Exploring interfaces: Redox balance and neuroinflammation through the glial lens</i></p> <p><u>Chairs:</u> João Bettencourt Relvas, University of Porto, Portugal João Laranjinha, University of Coimbra, Portugal</p> <p><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 <i>A neuron–glia lipid metabolic cycle couples daily sleep to mitochondrial homeostasis</i></p> </td> <td style="vertical-align: top;"> <p>Symposium 12 (HBB): <i>Redox modification of nucleic acids</i></p> <p><u>Chairs:</u> Kasia Goljanek-Whysall, University of Galway, Ireland Brian McDonagh, University of Galway, Ireland</p> <p><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 <i>RNA oxidation in muscle ageing and inactivity</i> Maria Borja Gonzalez, University of Galway, Ireland <i>The role of miRs and oxidised miRs in cancer cachexia</i></p> </td> </tr> </table>	<p>Symposium 11 (BAH): <i>Exploring interfaces: Redox balance and neuroinflammation through the glial lens</i></p> <p><u>Chairs:</u> João Bettencourt Relvas, University of Porto, Portugal João Laranjinha, University of Coimbra, Portugal</p> <p><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 <i>A neuron–glia lipid metabolic cycle couples daily sleep to mitochondrial homeostasis</i></p>	<p>Symposium 12 (HBB): <i>Redox modification of nucleic acids</i></p> <p><u>Chairs:</u> Kasia Goljanek-Whysall, University of Galway, Ireland Brian McDonagh, University of Galway, Ireland</p> <p><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 <i>RNA oxidation in muscle ageing and inactivity</i> Maria Borja Gonzalez, University of Galway, Ireland <i>The role of miRs and oxidised miRs in cancer cachexia</i></p>
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10:30-11:00	Coffee, poster viewing, exhibition (BAH, HBB)		
11:00-11:30	<p>SFRR-E Catherine Pasquier Award Lecture (BAH): Paraskevi Kritsiligkou, University of Liverpool, UK <i>Utilising tethered biosensors to uncover intracellular redox heterogeneity</i></p>		
11:30-12:00	<p>SFRR-I Joanna and Kelvin J.A. Davies Rising Star Award Lecture (BAH): Carlos Henríquez-Olguín (University of Copenhagen, Denmark)</p>		
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: Excursion		

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Day 5

Saturday, 7th June

Satellite Meeting, BenBedPharm (HBB):

NRF2: Physiology, pathology, pharmacology, and clinical development

Chairs and Speakers: TBA

Topics:

Mechanisms of regulation of NRF2 and its gene targets

Role of NRF2 in physiology and pathology. Impact of NRF2 in degenerative diseases and ageing

Pharmacological activation and inhibition of NRF2

Basic to clinical to economical translation of NRF2 therapeutics

NRF2 Biomarkers of drug response

Satellite Meeting, HNE Club (HBB):

Redox modification of nucleic acids

Chairs: TBA

Speakers:

Corinne Spickett, Aston University, UK **Daniela Costa**, Cardiff University, UK

Eikan Mishima, Institute of Metabolism and Cell Death, Helmholtz Munich, Germany

Maria Fedorova, TU Dresden, Germany

Yimon Aye, Oxford University, UK