

22nd SFRR 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	<p>SFRR-I Trevor Slater Award Lecture 1 (BAH): Chairs: Hozumi Motohashi (Tohoku University, Japan), Nina Dickerhof (University of Otago, New Zealand) Giovanni E. Mann, King's College London, UK <i>Redox and nitric oxide signaling under physiological oxygen levels</i></p>		
10:00-10:30	<p>SFRR-I Trevor Slater Award Lecture 2 (BAH): Chairs: Chang Chen (Chinese Academy of Sciences, China), Juan Sastre (University of Valencia, Spain) Michael J. Davies, University of Copenhagen, Denmark</p>		
10:30-11:00	Coffee, poster viewing, exhibition (BAH, HBB)		
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> Chairs: Thomas M. Michel, Harvard University, USA Sharon Glynn, University of Galway, Ireland Speakers: 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></p> </td> <td style="vertical-align: top;"> <p>Symposium 2 (HBB): <i>Role of redox regulation in neural differentiation</i> Chairs: Christian Gonzalez-Billault, University of Chile, Chile Carsten Berndt, Heinrich-Heine University, Düsseldorf, Germany Speakers: 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></p> </td> </tr> </table>	<p>Symposium 1 (BAH): <i>In vivo redox biochemistry across the span of life</i> Chairs: Thomas M. Michel, Harvard University, USA Sharon Glynn, University of Galway, Ireland Speakers: 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></p>	<p>Symposium 2 (HBB): <i>Role of redox regulation in neural differentiation</i> Chairs: Christian Gonzalez-Billault, University of Chile, Chile Carsten Berndt, Heinrich-Heine University, Düsseldorf, Germany Speakers: 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></p>
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12:30-13:00	<p>SFRR-E Annual Award Lecture (BAH): Chairs: Michael Davies (University of Copenhagen, Denmark), Aphrodite Vasilaki (University of Liverpool, UK) Daniela Caporossi, University of Rome "Foro Italico", Italy <i>Reactive oxygen species in exercise biology: from adaptive response to cell signalling and beyond</i></p>		
13:00-14:30	Lunch, poster viewing, exhibition (BAH, HBB)		
14:30-15:00	<p>SFRR-I Lester Packer Award Lecture (BAH): Chairs: Cesar Fraga (University of California, Davis, USA), Enrique Cadenas (University of Southern California, USA) Giuseppe Poli, University of Torino, Italy</p>		
15:00-16:30	<table border="0"> <tr> <td>Selected Oral Presentations 1 (BAH)</td> <td>Selected Oral Presentations 2 (HBB)</td> </tr> </table>	Selected Oral Presentations 1 (BAH)	Selected Oral Presentations 2 (HBB)
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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

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> <p><u>Panel members:</u> Prof. Patricia Otezia (SFFR-I) Prof. Daniella Caporossi (SFRR Europe) Prof. Chang Chen (SFRR Asia) Prof. Carola Neumann (SfRBM) Dr. Angela Mastaloudis (Women in Nutraceuticals)</p>		
09:00-10:30	<table border="0"> <tr> <td style="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</p> <p><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="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</p> <p><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</p> <p><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</p> <p><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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	<p>Speakers:</p> <p>Natalie Torok, Stanford University, USA <i>Matrix properties and redox regulation in liver cancer</i></p> <p>Santiago Lamas, Centro de Biología Molecular Severo Ochoa, Spain <i>The role of fatty acid oxidation in kidney and liver fibrosis</i></p> <p>Helena Cocheme, MRC Laboratory of Medical Sciences, UK <i>Redox signalling in the regulation of metabolism and ageing</i></p>	<p>Oscar Lorenzo, University of Salamanca, Spain <i>Sensing the gastrotransmitter nitric oxide (NO) at the initial step of the N-degron pathway in plants</i></p> <p>Thomaz Stumpf Trezn, Federal University of Rio Grande, Brazil <i>Glutathione Peroxidases as Redox Sensors in Plants</i></p> <p>Avilien Dard, University of Ghent, Belgium <i>Surfing the ROS wave: HDA6's journey through heat stress adaptation, from chromatin to cytosolic stress granules. Unveiling redox-regulation of protein phase separation</i></p>
12:30-13:00	<p>SFRR-E Basic Science Award Lecture (BAH): Chairs: Daniela Caporossi (University of Rome "Foro Italico", Italy), Giovanni Mann (King's College London, UK)</p> <p>Juan Sastre, University of Valencia, Spain <i>Redox signaling in inflammation</i></p>	
13:00-14:30	<p>Lunch, poster viewing, exhibition (BAH, HBB)</p> <p>Lunch-time seminar sponsored by the University of Galway Institute of Clinical Trials (BAH): <i>From bench to bedside: translational research and clinical trials in redox research.</i></p> <p>Speakers:</p> <p>Motohiro Nishida, Kyushu University, Japan: <i>Supersulfide metabolism in cardiac stress resistance</i></p> <p>Judy de Haan, Baker Heart and Diabetes Institute, Australia: <i>Targeting the inflammatory Gasdermin-D pore improves cardiac ischemia reperfusion injury in mice</i></p> <p>Sharon Glynn, University of Galway, Ireland: <i>Inducible nitric oxide synthase (iNOS) modulates tumour progression and immune responses leading to poor patient outcome in hormone receptor negative breast cancer</i></p> <p>Andrew Smyth, University of Galway, Ireland: <i>Stroke Prevention: Findings from the INTERSTROKE Study</i></p> <div style="text-align: center;">  <p>OLLSCOIL NA GAILLIMHE UNIVERSITY OF GALWAY</p> </div>	
14:30-15:00	<p>SFRR-I Alberto Boveris Award Lecture (BAH): Chair: Patricia Oteiza (University of California, Davis, USA), Giuseppe Valacchi (University of Ferrara, Italy)</p> <p>Enrique Cadenas, University of Southern California, USA</p>	
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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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	<p><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><i>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): Chairs: Niki Chandrogianni, National Hellenic Research Foundation, Greece), Malcolm Jackson (University of Liverpool, UK) 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, exhibition (BAH, HBB) Lunchtime Research Workshop (HBB): Michael Murphy (University of Cambridge, UK) <i>'The role of oxygen concentration in ischemia-reperfusion injury in vivo and in vitro'</i> and Roundtable Discussion <i>'Importance of physiological oxygen levels for redox signaling and high throughput screening in live cells'</i></p> <div style="text-align: center;">  </div>	
14:30-16:30	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>Chairs: 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>Chairs: João Bettencourt Relvas, University of Porto, Portugal João Laranjinha, University of Coimbra, Portugal</p> <p>Speakers: 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>Chairs: Kasia Goljanek-Whysall, University of Galway, Ireland Brian McDonagh, University of Galway, Ireland</p> <p>Speakers: 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>Chairs: João Bettencourt Relvas, University of Porto, Portugal João Laranjinha, University of Coimbra, Portugal</p> <p>Speakers: 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>Chairs: Kasia Goljanek-Whysall, University of Galway, Ireland Brian McDonagh, University of Galway, Ireland</p> <p>Speakers: 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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11:00-11:30	<p>SFRR-E Catherine Pasquier Award Lecture (BAH): Chairs: Clare Hawkins (University of Copenhagen, Denmark), Joao Laranjinha (University of Coimbra, Portugal) 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): Chairs: Joanna and Kelvin Davies (University of Southern California, USA) 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)		
14:00-19:00	BenBedPhar Management Committee meeting: Session 1 and 2 (for COST members only, HBB)		
14:30-15:00	Poster Removal, Departure		
15:00-19:00	Organised trip: Excursion		

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Day 5 Saturday, 7 th June		
09:00-10:30	<p>BenBedPhar Session 3 (HBB LLT) <u>Speakers:</u> Brigitte Buttari, Istituto Superiore di Sanità, Italy <i>Sex Differences in NRF2-Mediated Stress Response and Autophagy in MASLD and MASH Models: Implications for Therapeutic Strategies</i> Ian Copple, University of Liverpool, UK <i>Advances and challenges translating the NRF2 science to the clinic</i> Anna-Lisa Levonen, University of Eastern Finland, Finland <i>Biomarkers of NRF2 activation in non-small cell lung carcinoma</i></p>	<p>HNE Club Session 1 (HBB SLT): <u>Speakers:</u> Eikan Mishima, Helmholtz Center Munich, Germany <i>Ferroptosis regulation by micronutrients: vitamin K and selenium</i> Corinne Spickett, Aston University, UK <i>The effects of reactive lipid oxidation adducts on protein structure, activity and signalling</i> Yimon Aye, Oxford University, UK <i>Decoding precision HNE signalling activities in living systems</i></p>
10:30-11:00	Coffee, poster viewing, exhibition (HBB)	
10:30-11:00	<p>BenBedPhar Session 4 (HBB LLT) Ana S Falcão, Universidade NOVA de Lisboa, Portugal <i>Preclinical testing of dimethyl fumarate as a repurposing therapeutic approach for early age-related macular degeneration</i> Isabel Lastres-Becker, Universidad Autonoma de Madrid, Spain <i>Targeting Pyroptosis: Exploring the Role of Dimethyl Fumarate in TAU-Driven Neuroinflammation and Neurodegeneration</i> Gerasimos P. Sykiotis, University of Lausanne, Switzerland <i>Dissecting oxidation-dependent and oxidation-independent components of thyroid autoregulation.</i> Antonio Cuadrado, Autonomous University of Madrid, Spain. <i>Targeting transcription factor NRF2 for brain protective therapy in Alzheimer's disease</i></p>	<p>HNE Club Session 2 (HBB SLT): <u>Speakers:</u> T. Blake Monroe, University of Minnesota-Twin Cities, USA <i>Lipid-derived electrophiles induce carbonyl stress, mitochondrial dysfunction, and cellular senescence</i> Daniela Costa, Cardiff University, UK <i>The role of oxPLs in coagulopathies associated with systemic inflammation</i> Maria Fedorova, TU Dresden, Germany <i>Lipid (per)oxidation at the cross-road of cell life and death</i> Open Discussion: <i>Redox biology at the interface between lipids and proteins</i></p>
13:00-14:30	Lunch, poster viewing, exhibition (HBB)	
14:30-16:30	<p>BenBedPhar Session 5 (HBB LLT) Erkan Tuncay, Ankara University, Turkey <i>Mitochondrial Transplantation Activates Nrf2 to Restore Cardiac Function in Heart Failure</i> Harry van Goor, University of Groningen, Netherlands</p>	

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	<p><i>Thiosulfate as modulator of oxidative stress through NRF2 signaling</i> Anna Grochot-Przeczek, Jagiellonian University, Poland <i>Endothelial deletion of miRNA-34a blocks aortic aneurysm development in NRF2 KO mice – focus on endothelial cell proliferation</i> Noemi Mencarelli, University of Chieti-Pescara, Italy <i>NRF2 modulation in macrophages as therapeutic strategy for tendon healing in tendinopathy</i></p>	
16:30-17:00	Coffee, poster viewing, exhibition (HBB)	
17:00-19:00	<p>BenBedPhar Session 6 (HBB LLT) Sharadha Dayalan Naidu, University of Dundee, United Kingdom <i>Regulation of microRNAs by Nrf2 activation in fibrosis</i> Ana I Rojo, Universidad Autónoma de Madrid, Spain <i>NRF2 as a Therapeutic Target in ALS: Insights into RNA Metabolism and Redox Homeostasis</i> Aleksandra Piechota-Polanczyk, Jagiellonian University, Poland <i>Transcriptionally Inactive Nrf2 Causes Colon Dysfunction in Female Mice: The Role of Estrogens</i> Angela M. Valverde, Sols-Morreale Biomedical Research Institute, Spain <i>Uncovering interactions between the NRF2 pathway and the plasticity of liver progenitor cells in liver diseases</i></p>	
19:00-19:10	Farewell	