Day 1 **Tuesday, 3rd 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 *Redox and nitric oxide signaling under physiological oxygen levels*	
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	**Symposium 1** (BAH): *In vivo redox biochemistry across the span of life* Chairs: Thomas M. Michel, Harvard University, USA Sharon Glynn, University of Galway, Ireland Speakers: Helmut Sies, Heinrich-Heine University, Düsseldorf, Germany *Essential lifelong redox reactions: from fertilization to cell death* Fotios Spyropoulos, Harvard University, USA *In utero oxidative Stress: Uncovering links to cardiomyocyte reprogramming and heart failure of prematurity* Marc Fransen, KU Leuven, Belgium *Peroxisome dysfunction and hydrogen peroxide signaling in age-related pathologies*	**Symposium 2** (HBB): *Role of redox regulation in neural differentiation* Chairs: Christian Gonzalez-Billault, University of Chile, Chile Carsten Berndt, Heinrich-Heine University, Düsseldorf, Germany Speakers: Shahad Albadri, INSERM, France *Redox signaling in retinal progenitor cell differentiation* Carsten Berndt Heinrich-Heine University, Düsseldorf, Germany *Glutaredoxin-mediated differentiation of neural stem/progenitor cells* Christian Gonzalez-Billault, University of Chile, Chile *NADPH functions in neural cells: lessons from neurons and microglia*
12:30-13:00	**SFRR-E Annual Award Lecture** (BAH): Daniela Caporossi, University of Rome "Foro Italico", Italy *Reactive oxygen species in exercise biology: from adaptive response to cell signalling and beyond*	
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	

Day 2 **Wednesday, 4th June**		
08:00-09:00	**Sunrise Seminar** (BAH): *Careers beyond Gender* Chairs: **Lin L. Mantell**, St. John's University College of Pharmacy, New York, USA **Kasia Goljanek-Whysall**, University of Galway, Ireland	
09:00-10:30	**Symposium 3** (BAH): *Redox regulation in inflammation and immune response* Chairs: **Young-Joon Surh**, Seoul National University, South Korea **Giuseppe Valacchi**, University of Ferrara, Italy Speakers: **Helen R. Griffiths**, Swansea University, UK *Solving the redox riddle in resolving inflammation* **Young-Joon Surh**, Seoul National University, South Korea *Role of NRF2 in resolution of inflammation* **Hong Wang**, Center for Metabolic Disease Research, Lewis Katz School of Medicine, USA *Metabolic reprogramming and redox regulation in monocytes differentiation and metabolic disorders*	**Symposium 4** (HBB): *Zinc outside the box: new insights into function and measurement* Chairs: **Sarah Chapple**, King's College London, UK **Fan Yang**, King's College London, UK Speakers: **Zhelong Xu**, Tianjin Medical University, China *Roles of zinc transporters in cardiac pathophysiology* **Patricia Oteiza**, University of California, Davis, USA *Zinc, redox signalling and early development* **George Firth**, King's College London, UK *Whole-body imaging of zinc and other essential micronutrients with positron emission tomography*
10:30-11:00	Coffee, poster viewing, exhibition (BAH, HBB)	
11:00-12:30	**Symposium 5** (BAH): *The key role of metabolism in fibrosis, inflammation and repair* Chairs: **Isabel Fabregat**, Bellvitge Biomedical Research Institute (IDIBELL), Spain **Santiago Lamas**, Centro de Biología Molecular Severo Ochoa, Spain Speakers: **Natalie Torok**, Stanford University, USA *Matrix properties and redox regulation in liver cancer* **Santiago Lamas**, Centro de Biología Molecular Severo Ochoa, Spain *The role of fatty acid oxidation in kidney and liver fibrosis* **Helena Cocheme**, MRC Laboratory of Medical Sciences, UK	**Symposium 6** (HBB): *Updates in plant redox biology* Chairs: **José Manuel Ugalde**, University of Bonn, Germany **Sophie Hendrix**, Hasselt University, Belgium Speakers: **Oscar Lorenzo**, University of Salamanca, Spain *Sensing the gastrotransmitter nitric oxide (NO) at the initial step of the N-degron pathway in plants* **Thomaz Stumpf Trenz**, Federal University of Rio Grande, Brazil *Glutathione Peroxidases as Redox Sensors in Plants*

	Redox signalling in the regulation of metabolism and ageing	**Avilien Dard**, University of Ghent, Belgium *Surfing the ROS wave: HDA6's journey through heat stress adaptation, from chromatin to cytosolic stress granules. Unveiling redox-regulation of protein phase separation*
12:30-13:00	**SFRR-E Basic Science Award Lecture** (BAH): **Juan Sastre**, University of Valencia, Spain *Redox signaling in inflammation*	
13:00-14:30	Lunch, poster viewing, exhibition (BAH, HBB) **Lunch-time seminar** sponsored by the University of Galway Institute of Clinical Trials (BAH): *From bench to bedside: translational research and clinical trials in redox research.* Speakers: **Motohiro Nishida**, Kyushu University, Japan: *Supersulfide metabolism in cardiac stress resistance* **Judy de Haan**, Baker Heart and Diabetes Institute, Australia: *Targeting the inflammatory Gasdermin-D pore improves cardiac ischemia reperfusion injury in mice* **Sharon Glynn**, University of Galway, Ireland*: Inducible nitric oxide synthase (iNOS) modulates tumour progression and immune responses leading to poor patient outcome in hormone receptor negative breast cancer* **Andrew Smyth**, University of Galway, Ireland: *Stroke Prevention: Findings from the INTERSTROKE Study*	
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)	

Day 3 **Thursday, 5th June**		
08:00-09:00	**Sunrise Seminar** (BAH): *Workshop for authors* Chairs: TBA Speaker: **Anthony Newman**, Elsevier	
09:00-10:30	**Symposium 7** (BAH): *Oxidases and peroxidase enzymes in health and disease* Chairs: **Michael J. Davies**, University of Copenhagen, Denmark **Clare Hawkins**, University of Copenhagen, Denmark Speakers: **Clare Hawkins**, University of Copenhagen, Denmark *Role of myeloperoxidase, neutrophil extracellular traps (NETs), and modified histones in cellular dysfunction* **Albert van der Vliet**, University of Vermont, USA *Oxidative mechanisms in fibrotic disease: from NADPH oxidases to peroxidasin (PXDN)* **Nina Dickerhof**, University of Otago, Christchurch, New Zealand *Targeting hypothiocyanous acid defence mechanisms in bacteria*	**Symposium 8** (HBB): *Hypoxia research: where to now?* Chairs: **Cormac Taylor**, University College Dublin, Ireland **Brian Ortmann**, Newcastle University, UK Speakers: **Sonia Rocha**, University of Liverpool, UK *Oxygen sensing and chromatin biology* **Sean Colgan**, University of Colorado, USA *Hypoxia and Inflammation* **Brian Ortmann**, Newcastle University, UK *Defining the role of methylation in the cellular response to hypoxia*
10:30-11:00	Coffee, poster viewing, exhibition (BAH, HBB)	
11:00-12:30	**Symposium 9** (BAH): *Supersulfides in stress responses and adaptation* Chairs: **Motohiro Nishida**, Kyushu University, Japan **Philip Eaton**, Queen Mary University of London, UK Speakers: **Hozumi Motohashi**, Tohoku University Graduate School of Medicine, Japan *Environmental stress response and sulfur metabolism* **Uladzimir Barayeu**, Max-Planck-Institut for Polymer Research, Germany	**Symposium 10** (HBB): *Protein aggregation in aging and related diseases* Chairs: **Tilman Grune**, German Institute of Human Nutrition Potsdam-Rehbruecke, Germany **Tim Baldensperger**, University of Vienna, Austria Speakers: **Niki Chondrogianni**, National Hellenic Research Foundation, Greece *Proteasome activation against protein aggregation in ageing and Alzheimer's disease* **Alan Butterfield**, University of Kentucky, USA

	Evolutionarily conserved octasulfur mediates supersulfide signalling and metabolism in mammalian cells **Melanie Madhani**, University of Birmingham, UK *Redox regulation of hydropersulfides from bench-to-bedside*	*Small oligomeric aggregates of amyloid beta-peptide and brain oxidative damage: Intersection of the lipid peroxidation product HNE, glucose dysmetabolism and Alzheimer disease* **Tim Baldensperger**, University of Vienna, Austria *Expressed protein ligation to study effects of posttranslational modifications on protein aggregation*
12:30-13:00	**SFRR-E Leopold Flohé Award Lecture** (BAH): **Aphrodite Vasilaki**, University of Liverpool, UK *Physiological and structural changes in skeletal muscle and nerve-muscle interactions: the effects of ageing and nutrition*	
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)	

Day 4 **Friday, 6th June**		
08:00-09:00	**ECR Sunrise Seminar** (BAH)**:** ***AI in Scientific Research and Publishing—Revolution or Risk?*** *Presented by ECR committee members with special guests* Chairs: **Paraskevi Kritsiligkou**, University of Liverpool, UK, **Vanesa Cepas López**, University of Turin, Italy	
09:00-10:30	**Symposium 11** (BAH): *Exploring interfaces: Redox balance and neuroinflammation through the glial lens* Chairs: **João Bettencourt Relvas**, University of Porto, Portugal **João Laranjinha**, University of Coimbra, Portugal Speakers: **Juan Bolaños**, University of Salamanca, Spain *Astrocytic metabolism: energy or signaling?* **João Bettencourt Relvas**, University of Porto, Portugal *Cytoskeleton regulation of glial function: implications for neuroinflammation and neurological disease* **Amita Sehgal**, University of Pennsylvania, USA *A neuron–glia lipid metabolic cycle couples daily sleep to mitochondrial homeostasis*	**Symposium 12** (HBB): *Redox modification of nucleic acids* Chairs: **Kasia Goljanek-Whysall**, University of Galway, Ireland **Brian McDonagh**, University of Galway, Ireland Speakers: **Ken O'Halloran**, University College Cork, Ireland *Intermittent hypoxia-induced respiratory muscle dysfunction is NADPH oxidase dependent* **Esther Dupont-Versteegden**, University of Kentucky, USA *RNA oxidation in muscle ageing and inactivity* **Maria Borja Gonzalez**, University of Galway, Ireland *The role of miRs and oxidised miRs in cancer cachexia*
10:30-11:00	Coffee, poster viewing, exhibition (BAH, HBB)	
11:00-11:30	**SFRR-E Catherine Pasquier Award Lecture** (BAH): **Paraskevi Kritsiligkou**, University of Liverpool, UK *Utilising tethered biosensors to uncover intracellular redox heterogeneity*	
11:30-12:00	**SFRR-I Joanna and Kelvin J.A. Davies Rising Star Award Lecture** (BAH): **Carlos Henríquez-Olguín** (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)	
14:00-19:00	BenBedPhar Management Committee meeting: Session 1 and 2 (for COST members only, HBB)	
14:00-14:30	Closing Ceremony (BAH)	
14:30-15:00	Poster Removal, Departure	
15:00-19:00	Organised trip: Excursion	

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

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