

	Tuesday, June 4, 2024	
16:00 – 18:00	SFRR-E Executive Meeting	
18:00 – 20:00	SFRR-E Council Meeting	
	Wednesday, June 5, 2024	
07:30 – 09:00	Registration / Poster & Exhibition Set-Up	
09:00 – 09:30	SFRR-E Annual Meeting: Opening (Hall 1+2)	
09:30 – 10:00	SFRR-E Annual Award Lecture (Hall 1+2) <i>Chairs: Tbd</i> Ana Maria Cuervo (Albert Einstein College of Medicine, New York, USA) Selective autophagy in the fight against aging and age-related diseases	
10:00 – 10:30	SFRR-E Basic Science Award Lecture (Sponsored by Elsevier) (Hall 1+2) <i>Chairs: Tbd</i> Kelvin J.A. Davies (University of Southern California, Los Angeles, USA) The Redox Biology of Adaptive Homeostasis	
10:30 – 11:00	Coffee break / Poster viewing / Exhibition	
11:00 – 11:30	SFRR-E Symposium I - Cross-talk between mitochondria and nucleus: a central node for cellular REDOX control (Hall 1+2) <i>Chairs: Juan Sastre (University of Valencia, Spain) and Maria Monsalve (CSIC, Madrid, Spain)</i> Luca Scorrano (University of Padua, Italy) ROS and the mitochondrial dynamics protein Opa1: a bidirectional crosstalk	
11:30 – 12:00	Juan P. Bolanos (University of Salamanca, Spain) Linking astrocyte metabolism with ROS signalling	
12:00 – 12:30	Erika Fernandez-Vizarra (University of Padova, Italy) Cytochrome c oxidase adaptation to oxidative stress is mediated by COA8	
12:30 – 13:30	Lunch break / Poster viewing / Exhibition	Women in Science: Chair: Nesrin Kartal Özer (Üsküdar University, Istanbul, Türkiye) (Dining Hall)

13:30 – 14:00	SFRR-E Clinical Science Award Lecture (Sponsored by SFRR-E and OCC) (Hall 1+2) <i>Chairs: Tbd</i> Thomas Michel (Harvard University, Boston, USA) Novel chemogenetic/transgenic models of tissue-specific oxidative stress
14:00 – 15:30	SFRR-E Symposium II – KEAP1 and NRF2: Key targets for maintenance of redox homeostasis in health and disease (Hall 1+2) <i>Chairs: Emrah Eroglu (Istanbul Medipol University, Türkiye) and Giovanni Mann (King's College London, United Kingdom)</i> Albena Dinkova-Kostova (University of Dundee School of Medicine, United Kingdom) Electrophiles and KEAP1-NRF2 protein-protein interaction inhibitors for prevention and treatment of chronic disease Ana Isabel Rojo (Autonomous University of Madrid, Spain) Therapeutic targeting of NRF2 and KEAP1 in Alzheimer's disease Young-Joon Surh (Seoul National University, South Korea) Role of NRF2 in protective effects of the electrophilic metabolite of docosahexaenoic acid against oxidative cell death and inflammation
15:30 – 16:00	Keynote Lecture (Hall 1+2) <i>Chairs: Tbd</i> Christos Mantzoros (Harvard Medical School, Boston, USA) Tbd
16:00 – 16:15	Redox control as new targets for the clinic (Hall 1+2) <i>Chairs: Tbd</i> Yuji Naito (Kyoto Prefectural University of Medicine, Japan) Gut frailty: its concept and the role of dietary fibre
16:15 – 16:30	Alexander Bartelt (Ludwig-Maximilians-Universität München, Germany) Ubiquitin-proteasome system in the defense against lipid ROS and ferroptosis
16:30 – 18:00	Guided Poster Presentations I, 6 Parallel groups, Coffee & refreshments Group A: <i>Chairs: Tbd</i> Group B: <i>Chairs: Tbd</i> Group C: <i>Chairs: Tbd</i> Group D: <i>Chairs: Tbd</i> Group E: <i>Chairs: Tbd</i>

	Group F: Chairs: Tbd	
18:00 – 19:30	ECR Networking (Hall 1+2)	Elsevier Editorial Meeting (Breakout Room V)
19:30 – 20:30	Meet-the-Professors Session (Hall 1+2)	
20:30 – 23:00	Welcome Reception & Live Music	

		Thursday, June 6, 2024	
08:00 – 09:00	Sunrise Round Table I (Hall 1) Chairs: Tbd		
09:00 – 09:15	Selected Oral Presentations I Mitochondria & Brain (Hall 1) Chairs: Tbd Regina Mengual, Veronica Bobo-Jimenez, Cristina Rodriguez, Maria Delgado-Esteban, Dario Garcia-Rodriguez, Juan P Bolanos, Angeles Almeida (University of Salamanca, Spain) Mitochondrial ROS regulate neural precursor proliferation and neurogenesis in the developing brain	09:00 – 09:15	Selected Oral Presentations II Imaging tools & Oxidative markers (Hall 2) Chairs: Tbd Olga Lyublinskaya, Andrei Zhuravlev, Daria Ezeriņa, Julia Ivanova, Nikita Guriev, Joris Messens (RAS, Institute of Cytology, Moscow, Russia) HyPer1 as a tool to measure the reductive power in cellular compartments
09:15 – 09:30	Andrey V. Kozlov, Annette Vaglio-Garro, Arthur Hosmann, Adelheid Weidinger (Ludwig Boltzmann Institute for Traumatology, Austria) Interplay between nitric oxide, mitochondria, and glutamate upon brain injury	09:15 – 09:30	Asal Ghaffari Zaki, Seyed Mohammad Miri, Şeyma Çimen, Tuba Akgül Çağlar, Esra Nur Yiğit, Mehmet Şerif Aydın, Gürkan Öztürk, Emrah Eroğlu (Istanbul Medipol University, Türkiye) Pioneering precision: unraveling cellular bioenergetics with pH-control
09:30 – 09:45	Camila C. Portugal, Ana M. Pacheco, Evelyn C. S. Santos, Márcia A. Liz, Renato Socodato, João B. Relvas (University of Porto, Portugal)	09:30 – 09:45	Tina Nybo; Luke F. Gamon, Daniel Otzen, Michael J. Davies, Per Hägglund (University of Copenhagen, Denmark) Dimethyl labelling allows identification of novel protein crosslinks by mass spectrometry

09:45 – 10:00	Modulating Vitamin C Transport in Hippocampal Microglia to Target Synapse and Memory Deficits in Parkinson's Disease Javier Marqués , Leyre Basurco, Elena Ainzúa, Enrique Santamaría, Joaquín Fernández, Davide Maselli, María Martínez-Azcona, Carmen Roncal, Marisol Aymerich, Aleksandar Ívetic, Josune Orbe, Guillermo Zalba (<i>University of Navarra, Spain</i>)	09:45 – 10:00	Helen Hemmling , Line Hallberg, Per Hägglund, Clare Hawkins (<i>University of Copenhagen, Denmark</i>)
10:00 – 10:15	Endothelial NADPH oxidase 5 (NOX5) promotes tight junction dysregulation and immune cell infiltration in the brain. Potential implications in ischemic stroke Jean-Pierre Vartanian, Anthony Behin, Karim Wahbi, Pierre Joanne, Onnik Agbulut (<i>Sorbonne University, Paris, France</i>)	10:00 – 10:15	Characterisation of oxidative histone modification in neutrophil extracellular traps Raul Gonzalez-Ojeda, Gibran Pedraza-Vazquez, Karen Guerrero-Vazquez, Ana Soriano, Rachel McCormick, Anthony Sannicandro, Brian McDonagh, Katarzyna Goljanek-Whysall (<i>University of Galway, Ireland</i>)
10:15 – 10:30	Critical contribution of mitochondria in the development of cardiomyopathy linked to desmin mutation Anna Gioran , Ieronymos Zoidakis, Niki Chondrogianni (<i>National Hellenic Research Foundation, Athens, Greece</i>) (ECR Fellowship)	10:15 – 10:30	Oxidised microRNAs as novel regulators of muscle loss during ageing Roberto Meneses-Valde , Carlos Henríquez-Olguín, Samantha Gallero Kaspar Wredström Persson, Thomas Elbenhardt Jensen (<i>University of Copenhagen, Denmark</i>)
10:30 – 11:00	Proteasome activation increases lifespan through mitohormesis and UPR ^{ER} activation Coffee break Poster viewing Exhibition		
11:00 – 11:15	Selected Oral Presentations III Inflammation & Redox dysregulation (Hall 1) <i>Chairs: Tbd</i> Weiyu Chen , Sergey Tumanov, Christopher P. Stanley, Stephanie M. Y. Kong, James Nadel, Niv Vigder, Darren L. Newington, Xiaosuo Wang, Louise L. Dunn, Roland Stocker (<i>University of Sydney, Australia</i>)	11:00 – 11:15	Selected Oral Presentations IV Redox homeostasis & NRF2 (Hall 2) <i>Chairs: Tbd</i> Sheila Fernandez-Vega, Cristina Alvarez-Alvarez, Belen Garcia-Soler, Sergio Alcon-Rodriguez, Sandrina Kinet, Rosa M Sainz, Naomi Taylor, Pedro Gonzalez-Menendez (<i>University of Oviedo, Spain</i>) (ECR Fellowship)

11:15 – 11:30	Bilirubin deficiency destabilizes atherosclerotic plaque associated with an increase in arterial inflammation and oxidative stress Lea Strohm, Henning Ubbens, Dominika Mihalikova, Michael Molitor, Stefanie Finger, Marin Kuntic, Matthias Oelze, Esther Lutgens, Philipp Lurz, Thomas Münzel, Andreas Daiber, Steffen Daub (<i>University Medical Center Mainz, Germany</i>)	11:15 – 11:30	TXNIP-mediated inhibition of glucose metabolism is a critical step in human erythroid differentiation Ivan Gout (<i>University College London, UK</i>)
11:30 – 11:45	TRAF6 inhibition is a potential therapeutic target to suppress cardiovascular inflammation in animals with arterial hypertension Yeranuhi Hovhannisyanyan, Zhenlin Li, Domitille Callon, Rodolphe Suspene, Vivien Batoumeni, Alexis Canette, Jocelyne Blanc, Hakim Hocini, Cecile Lefebvre, Nora El-Jahrani, Maria Kitsara, Aurore L'honore, Ekaterini Kordeli, Paul Fornes, Jean-Paul Concordet, Gerard Tachdjian, Anne-Marie Rodriguez, Valeria Cordone, Alessandra Pecorelli, Francesca Frescura, Andrea Vallese, Anna Guiotto, Francesca Ferrara, Joussef Hayek, Sarah Beggiato, Luca Ferraro, Giuseppe Valacchi (<i>University of Ferrara, Italy</i>)	11:30 – 11:45	Coenzyme A biology in redox regulation Raquel Fernández-Ginés, Raquel Míguez, José Antonio Encinar, Maribel Escoll, Daniel Carnicero-Senabre, José Jiménez-Villegas, Ángel J. García-Yagüe, Ana I. Rojo, Antonio Cuadrado (<i>Autonomous University of Madrid, Spain</i>)
11:45 – 12:00	Aberrant NLRP3 inflammasome response in Rett syndrome: from ex vivo to in vivo models for investigating pathogenetic mechanisms and new potential therapeutic strategies Barbara S Rocha, Beatriz Paiva, João Gonçalves, Vitória Viegas, João Laranjinha (<i>University of Coimbra, Portugal</i>)	11:45 – 12:00	Identification of the NRF2/β-TrCP axis to protect against non-alcoholic steatohepatitis. Eleni Petsouki; Elke Heiss; Sylvia Ender; Shara Natalia Soca Cabrera (<i>University of Vienna, Austria</i>)
12:00 – 12:15	Dietary nitrate sustains nitric oxide production in the human stomach under oral dysbiosis Maria Schwarz, Caroline Meyer, Alina Löser, Kristina Loßow, Christiane Ott, Clotilde Wiel, Tilman Grune, Tanja	12:00 – 12:15	AMPK-mediated phosphorylation of Nrf2 at S374/S408/S433 favors its βTrCP2-mediated degradation in Keap1-deficient cells Tamara Zakic, Maja Vukobratovic, Strahinja Djuric, Aleksandra Korac, Vanja Pekovic-Vaughan, Aleksandra Jankovic, Bato Korac (<i>Institute for Biological Research Sinisa Stankovic, Belgrade, Serbia</i>)
		12:15 – 12:30	The role of Nrf2 in redox coupling of tumor and adipose tissue in orthotopic breast cancer model Chantalle Moulton, Arianna Murri, Gianmarco Benotti, Cristina Fantini, Guglielmo Duranti, Roberta Ceci, Elisa Grazioli, Claudia Cerulli, Paolo Sgrò, Cristina Rossi, Stefano Magno, Luigi Di Luigi, Daniela Caporossi, Attilio Parisi, Ivan Dimauro (<i>University of Rome "Foro Italico", Italy</i>)
			The effects of physical activity on gene-specific methylation of antioxidant and tumour suppressor genes

12:15 – 12:30	Schwerdtle, Volkan Sayin, Lutz Schomburg, Anna Kipp (Friedrich-Schiller University Jena, Germany) Copper disturbs hepatic selenium homeostasis targeting Selenoprotein P Alexandra Stiegler, Michaela Schirato, Christina Bauer, Ionela-Mariana Nagelreiter, Dora Kovacs, Mate Demeny, Emanuela Camera, Daniel Töröcsik, Florian Gruber (Medical University of Vienna, Austria) Transglutaminase 2 deficient sebocytes display disturbed autophagy and lipid secretion		in post-surgery female breast cancer patients undergoing medical treatment
12:30 – 13:30	Lunch break I Poster viewing I Exhibition	12:30 – 13:30	Mentoring Program (Dining Hall) Mentors/Mentees only
13:30 – 14:00	Catherine Pasquier Award Lecture (Hall 1+2) Chairs: Tbd Eduardo Fuentes-Lemus (University of Copenhagen, Denmark) Macromolecular crowding in the context of redox biology: effects on protein oxidation and aggregation		
14:00 – 14:30	Leopold Flohé Award Lecture (Hall 1+2) Chairs: Tbd José Luis García Giménez (University of Valencia, Spain) (Hall 1+2) When epigenetics meets the redox regulation and signaling		
14:30 – 15:00	SFRR-E Symposium III – Exploiting chemogenetic approaches to probe disease pathways caused by oxidative stress (Hall 1+2) Chairs: Thomas Michel (Harvard Medical School, Brigham and Women's Hospital, Boston, USA) and Helmut Sies (Heinrich Heine University, Düsseldorf, Germany) Hadley Sikes (Massachusetts Institute of Technology, Boston, USA) Intracellular hydrogen peroxide metabolism in cancer cells Vsevolod V. Belousov (Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, Moscow, Russia) Chemogenetic intraneuronal oxidative stress and synaptic plasticity Jan Riemer (University of Cologne, Germany) Redox chemogenetic studies in mitochondria and beyond		
15:00 – 15:30			
15:30 – 16:00			

16:00 – 17:00	Guided Poster Presentations II, 6 Parallel groups, Coffee & refreshments Group A: Chairs: Tbd Group B: Chairs: Tbd Group C: Chairs: Tbd Group D: Chairs: Tbd Group E: Chairs: Tbd Group F: Chairs: Tbd	
17:00 – 18:00		General Assembly (Hall 1+2)
18:30 – 22:00		Bosphorus Tour and Dinner, Awards, and Live Music

Friday, June 7, 2024		
08:00 – 09:00	Sunrise Round Table II (Hall 1+2) <i>Chairs: Tbd</i>	
09:00 – 09:15	ECR-Symposium: H₂O₂ on the move: from sub-cellular redox signals to therapeutic potential (Hall 1+2) <i>Chairs: Christina Mas-Bargues (University of Valencia, Spain) and Carmen Veith (Calliditas Therapeutics, Geneva, Switzerland)</i> Paraskevi Kritsiligkou (German Cancer Research Center, Heidelberg, Germany) Protein context-specific thiol oxidation and its modulation by nutrient availability	
09:15 – 09:30	David Heppner (University at Buffalo, USA) Utilizing NOX enzymes as model systems for understanding and designing covalent inhibitors	
09:30 – 09:45	Rut Espinosa (IDIBELL Bellvitge Biomedical Research Institute, L'Hospitalet de Llobregat, Spain) Role of the NADPH oxidase NOX4 in the liver tumor microenvironment	
09:45 – 10:00	Carlos Henriquez Olguin (University of Copenhagen, Denmark) A delicate subcellular hydrogen peroxide compartmentalization is crucial for muscle function and the beneficial effect of exercise	
10:00 – 10:15	Carmen Veith (Calliditas Therapeutics, Geneva, Switzerland) NADPH oxidase modulators from bench-to bedside: Challenges and opportunities	
10:15 – 10:30	Discussion	
10:30 – 11:00	Coffee break I Poster viewing I Exhibition	

	Young Investigator Award presentations (Hall 1+2) <i>Chairs: Tbd and tbd</i>
11:00 – 11:15	Susana Delgado-Martin et al. (University Hospital La Princesa, Madrid, Spain) Oxidative damage in reperfusion after stroke: ferroptosis and the role of the mitochondrial sodium/calcium exchanger NCLX
11:15 – 11:30	Tim Baldensperger et al. (University of Vienna, Austria) Role of lipofuscin in oxidative stress, lysosomal dysfunction, and cell death
11:30 – 11:45	Vanesa Cepas-López et al. (University of Turin, Italy) Defining single cell redox dynamics by using breast cancer patient-derived organoids (PDOs) and compartment-specific genetically-encoded redox biosensors
11:45 – 12:00	Nejra Cosis-Mujkanovic et al. (Medical University of Graz, Austria) The role of neutrophil-derived myeloperoxidase (MPO) in non-small cell lung cancer metastasis
12:00 – 12:15	Palina Nepachalovich et al. (Dresden University of Technology, Germany) Mapping fatty acids turnover in ferroptosis by click chemistry-enhanced LC-MS
12:15 – 12:30	Pablo Andres et al. (Karolinska Institute, Stockholm, Sweden, and University of Valencia, Spain) Beyond reduction: unveiling TRP14's dual role in cysteine homeostasis and redox dynamics
12:30 – 13:30	Lunch break / Poster viewing / Exhibition
13:30 – 14:00	Industry-sponsored Session: Zeiss (Hall 1+2) Tbd
14:00 – 15:30	SFRR-E Symposium IV – Neurovascular coupling and nitric oxide brain signaling in cognitive health and disease (Hall 1+2) <i>Chairs: Enrique Cadenas (University of Southern California, Los Angeles, USA) and João Laranjinha (University of Coimbra, Portugal)</i> Clare Howarth (University of Sheffield, UK) Interneurons, nitric oxide, and neurovascular coupling João M.N. Duarte (Lund University, Sweden) Regulation of cerebral blood flow and mitochondrial metabolism in animal models of insulin resistance João Laranjinha (University of Coimbra, Portugal) Nitric oxide-mediated redox cycles in the brain supporting neurovascular coupling and cognitive enhancement
15:30 – 16:00	Closing Ceremony (Hall 1+2)
16:00 – 17:00	Poster removal

Saturday, June 8, 2024	
07:30 – 08:30	Mediterranean Breakfast (<i>Medipol University, South Campus</i>)
08:30 – 08:45	Satellite Symposium: 'Seeing is believing' (<i>Medipol University, South Campus</i>) Rectors Welcome: Recep Öztürk (Vice Rector Medipol University, Istanbul) Lectures – Part I: <i>Chairs: Tbd</i>
08:45 – 09:15	Helmut Sies (<i>Heinrich Heine University, Düsseldorf, Germany</i>) Direct Biophysical Readout for Noninvasive Redox Monitoring of Intact Cells and Organs.
09:15 – 09:45	Vsevolod Belousov (<i>Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, Moscow, Russia</i>) Imaging and manipulation tools in Redox Biology (to be confirmed)
09:45 – 10:15	Nikolaus Plesnila (<i>Ludwig Maximilians University of Munich, Germany</i>) Understanding ischemic stroke by dynamic in vivo brain imaging
10:15 – 10:45	Coffee break I Virtual Reality Headset exhibition
10:45 – 11:15	Lectures - Part II: <i>Chairs: Tbd</i> Onnik Agbulut (<i>Sorbonne University, Paris, France</i>)? Modeling heart disease using human cells, bio-inspired cell culture systems and deep learning-based image analysis to discovery new therapeutic candidates
11:15 – 11:45	Ali Ertürk (<i>Helmholtz Center Munich, Germany</i>)? Decoding diseases in 3D: AI-powered cell level imaging and omics
11:45 – 12:15	Industrial Symposium: Visionary perspectives: Zeiss Imaging Symposium (<i>Medipol University, South Campus</i>) Sven Terclavers (<i>Zeiss Microscopy</i>) <i>Tbd</i>
12:15 – 13:15	Lunch break I Virtual Reality Headset exhibition
13:10 – 18:00	Workshop at SABITA Excellence Center (<i>Medipol University, North Campus</i>) <i>Workshop, hands-on experiments and demonstrations (12 workshops)</i>
18:00 – 22:00	Farewell at Bosphorus Banquet and Küçüksu Pavilion Soirée

