

**ORAL PRESENTATIONS**  
(by Presentation Day)

Abstract Title	Author / Affiliation	Session	Date / Time	Travel Award
Mitochondrial Metabolism After Ischemic Stroke and the Circadian Effects	<b>Amin Mottahedin</b> <i>University of Oxford</i> <i>United Kingdom</i>	S1: Omic Science in the Investigation of Redox Processes in Metabolism, Inflammation and Cancer	Thurs, Nov 16 11:30 am - 11:50 am	
Plasma oxidized phospholipidome as an indicator of comorbidities in critically ill patients	<b>Clint Upchurch</b> <i>University of Virginia</i> <i>United States</i>	S1: Omic Science in the Investigation of Redox Processes in Metabolism, Inflammation and Cancer	Thurs, Nov 16 11:50 am - 12:10 pm	
Potential role of peroxiredoxin 6 in supporting mitochondrial function	<b>Jose Pablo Vazquez-Medina</b> <i>University of California, Berkeley</i> <i>United States</i>	S2: Oxidation of Thiols in Biology and Medicine	Thurs, Nov 16 11:30 am - 11:50 am	
TRC40 is a redox-regulated chaperone that protect cells from proteotoxic stress	<b>Bianca Dempsey</b> <i>Universidade de Sao Paulo</i> <i>Brazil</i>	S2: Oxidation of Thiols in Biology and Medicine	Thurs, Nov 16 11:50 am - 12:10 pm	
Crossroads of Nitric Oxide and Mitochondrial Metabolism: Implications for Skeletal Muscle Adaptations to Exercise	<b>Rebecca Mammel</b> <i>Virginia Polytechnic and State University</i> <i>United States</i>	S3: Redox Control of Muscle Responses to Exercise: Translation into Benefits for Muscle Health	Thurs, Nov 16 11:30 am - 11:50 am	
Role of the Sympathetic Nervous System in Amyotrophic Lateral Sclerosis (ALS)	<b>Lisley Santos Ramalho</b> <i>University of São Paulo (USP)</i> <i>Brazil</i>	S3: Redox Control of Muscle Responses to Exercise: Translation into Benefits for Muscle Health	Thurs, Nov 16 11:50 am - 12:10 pm	
A Novel Biomarker for Inflammation: Measuring Reactive Oxygen Species in Immune Cells using Nanoscale MRI.	<b>Britt Coenen</b> <i>University of Groningen</i> <i>Netherlands</i>	S4: NOX Enzymes in Health and Disease: From Structural Biology to Clinical Translation	Thurs, Nov 16 3:00 pm - 3:20 pm	
Endoplasmic reticulum - plasma membrane contact sites as a potential hub for Protein Disulfide Isomerase-A1 (PDIA1) / NADPH oxidase cross-talk.	<b>Tiphany De Bessa</b> <i>Heart Institute, University of Sao Paulo</i> <i>Brazil</i>	S4: NOX Enzymes in Health and Disease: From Structural Biology to Clinical Translation	Thurs, Nov 16 3:20 pm - 3:40 pm	
Functional insights into PaLsfA: 1-Cys Peroxiredoxin that play key roles in the antioxidant defense of <i>Pseudomonas aeruginosa</i>	<b>Rogério Aleixo Silva</b> <i>University of Sao Paulo</i> <i>Brazil</i>	S5: Microbial Redox Systems at the Host Pathogen Interface: Potential Targets for New Therapeutic Approaches	Thurs, Nov 16 3:00 pm - 3:20 pm	
Protein nitration via iNOS induces collapse of intracellular parasite vacuoles that have been targeted by cell-autonomous immune GTPases	<b>Samantha Lempke</b> <i>University of Virginia</i> <i>United States</i>	S5: Microbial Redox Systems at the Host Pathogen Interface: Potential Targets for New Therapeutic Approaches	Thurs, Nov 16 3:20 pm - 3:40 pm	
Dmo2p is a neglected protein required for the proper function of copper dependent enzymes Sod1p and Cox2p	<b>Maria Antônia K. M. Soares</b> <i>University of São Paulo</i> <i>Brazil</i>	S6: Metallome and Redox Regulation: Its Systemic Health Effects	Thurs, Nov 16 3:00 pm - 3:20 pm	

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Phytochelatin 2, a Glutathione Oligomer, Interacts With Selenium and Cadmium Disposition	<b>Zachery Jarrell</b> <i>Emory University</i> <i>United States</i>	S6: Metallome and Redox Regulation: Its Systemic Health Effects	Thurs, Nov 16 3:20 pm - 3:40 pm	
ApoE isoforms alter glial Nrf2 activation, and antioxidant levels and oxidative damage in cerebral cortex of mice and humans	<b>Max Thorwald</b> <i>University of Southern California</i> <i>United States</i>	S7: Probing Cardiovascular and Neurodegenerative Disease Pathways Using Redox Chemoenetics	Fri, Nov 17 11:30 am - 11:50 am	
Intracellular Delivery of CxxCpep, a Protein Disulfide Isomerase Targeted Peptide. As a New Strategy to Inhibit Vascular Smooth Muscle Cell Migration.	<b>Antonio Marcus Paes</b> <i>Federal University of Maranhão</i> <i>Brazil</i>	S7: Probing Cardiovascular and Neurodegenerative Disease Pathways Using Redox Chemoenetics	Fri, Nov 17 11:50 am - 12:10 pm	
E2/E3-independent ubiquitin-like protein conjugation by Urm1 is coupled to cysteine persulfidation and protects the proteome under oxidative stress	<b>Keerthiraju Ethiraju Ravichandran</b> <i>Max Planck Research Group,</i> <i>Poland</i>	S8: The Many Faces of Hydrogen Sulfide and its Derivatives	Fri, Nov 17 11:30 am - 11:50 am	
Increased intracellular persulfide levels attenuate HlyU-mediated hemolysin transcriptional activation in <i>Vibrio cholerae</i>	<b>Daiana Capdevila</b> <i>Fundacion Instituto Leloir</i> <i>Argentina</i>	S8: The Many Faces of Hydrogen Sulfide and its Derivatives	Fri, Nov 17 11:50 am - 12:10 pm	
Annotation, Diversity and Evolution of Selenocysteine-containing Oxidoreductases in Eukaryotes	<b>Marco Mariotti</b> <i>Universitat de Barcelona</i> <i>Spain</i>	S9: RNA Translation and Redox Biology	Fri, Nov 17 11:30 am - 11:50 am	
Disturbed flow regulates protein disulfide isomerase A1 expression via microRNA-204 and controls vascular smooth muscle cell differentiation	<b>Lucas Gutierre</b> <i>University of Sao Paulo</i> <i>Brazil</i>	S9: RNA Translation and Redox Biology	Fri, Nov 17 11:50 am - 12:10 pm	
Obesity-induced platelet mitochondrial dysfunction causes vascular dysfunction.	<b>Gowtham Annarapu</b> <i>University of Pittsburgh</i> <i>United States</i>	S10: Mechanisms and Translation of Platelet Redox Signaling in Health & Disease	Fri, Nov 17 3:00 pm - 3:20 pm	
Protein Disulphide Isomerase A1 binds to fibrillar type I collagen and regulates its fibrillogenesis	<b>Renato Gaspar</b> <i>University of São Paulo</i> <i>Brazil</i>	S10: Mechanisms and Translation of Platelet Redox Signaling in Health & Disease	Fri, Nov 17 3:20 pm - 3:40 pm	
Conjugated linoleic acid esterified to phosphatidylcholine is a substrate for nitration and adaptive signaling in activated RAW264.7 macrophages	<b>Nicole Colussi</b> <i>University of Pittsburgh</i> <i>United States</i>	S11: Lipid Electrophiles and Metabolism in Redox Inflammatory Signaling	Fri, Nov 17 3:00 pm - 3:20 pm	
Spatial-temporal detection of lipoperoxides with a genetically encoded biosensor targeted to different sub-cellular regions	<b>Natalia Oddone</b> <i>Institut Pasteur de Montevideo</i> <i>Uruguay</i>	S11: Lipid Electrophiles and Metabolism in Redox Inflammatory Signaling	Fri, Nov 17 3:20 pm - 3:40 pm	

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Adipose Tissue is Prone to Radiation Damage, Reducing Adiponectin Secretion and Subsequent Radioprotection of Healthy Tissue	<b>Joshua A. McDowell</b> <i>University of Nebraska Medical Center United States</i>	S12: Redox Mechanisms of Cancer Cell Fate Decisions	Fri, Nov 17 3:00 pm - 3:20 pm	
Peroxiredoxin 1 phosphorylation is a critical signaling event in Triple Negative Breast Cancer-associated fibroblasts	<b>Lisa Hong</b> <i>University of Pittsburgh United States</i>	S12: Redox Mechanisms of Cancer Cell Fate Decisions	Fri, Nov 17 3:20 pm - 3:40 pm	
The activation of Nrf2 pathway prevents neurodegenerative damage induced by hippocampal expression of caspase-3 cleaved tau	<b>Rodrigo A Quintanilla</b> <i>Universidad Autonoma de Chile Chile</i>	S13: Bench to Bedside Translation for Pharmacological Regulation of NRF2	Sat, Nov 18 11:30 am - 11:50 am	
Unlocking the Power of GSK-3 $\alpha$ Inhibitors: How They Counteract LPS-Triggered Inflammation in RAW 264.7 Cells	<b>Anwar Abdelnaser</b> <i>The American University in Cairo Egypt</i>	S13: Bench to Bedside Translation for Pharmacological Regulation of NRF2	Sat, Nov 18 11:50 am - 12:10 pm	
Modulation of mitochondrial activity in keratinocytes by uva and visible-light	<b>Manuel Alejandro Herrera Lopez</b> <i>Universidade de São Paulo Brazil</i>	S14: The NAD(P) <sup>+</sup> /NAD(P)H Redox Couples as Drivers of Metabolism, Signaling and Disease	Sat, Nov 18 11:30 am - 11:50 am	
Pharmacological restoration of NAD <sup>+</sup> /NADH prevents chronic neurodegeneration and neuropsychiatric impairment after whole-brain radiotherapy.	<b>Edwin Vázquez-Rosa</b> <i>Case Western Reserve University United States</i>	S14: The NAD(P) <sup>+</sup> /NAD(P)H Redox Couples as Drivers of Metabolism, Signaling and Disease	Sat, Nov 18 11:50 am - 12:10 pm	
APE1/Ref-1 is a Novel Redox-Sensitive Element of Lipopolysaccharide-Induced NF- $\kappa$ B-dependent Inflammatory Response in a Cellular Model of Acute Lung Injury	<b>David Caraballo</b> <i>Florida International University United States</i>	S15: Redox Mechanisms and Systems Biology: Building an Atlas of the Redox Highways	Sat, Nov 18 11:30 am - 11:50 am	
Regulation of hepatic lysine N-acetylation facilitated by cysteine proximity due to alcohol toxicity	<b>Courtney McGinnis</b> <i>University of Colorado - Anschutz Medical United States</i>	S15: Redox Mechanisms and Systems Biology: Building an Atlas of the Redox Highways	Sat, Nov 18 11:50 am - 12:10 pm	
Biochemical and Structural Analysis of Peroxiredoxins from <i>Aspergillus fumigatus</i>	<b>Maria Tereza Oliveira Batista</b> <i>University of São Paulo Brazil</i>	S16: Microbial Redox Biology	Sat, Nov 18 3:00 pm - 3:20 pm	
Sensitising <i>Streptococcus pneumoniae</i> to the Immune-Derived Oxidant Hypothiocyanous Acid	<b>Heather Shearer</b> <i>University of Otago New Zealand</i>	S16: Microbial Redox Biology	Sat, Nov 18 3:20 pm - 3:40 pm	
Crowded environments as modulators of oxidation reactions: Effects on the modification and aggregation of key metabolic and digestive enzymes	<b>Eduardo Fuentes-Lemus</b> <i>University of Copenhagen Denmark</i>	S17: Compartmentalized Redox Signaling in Crowded Cells	Sat, Nov 18 3:00 pm - 3:20 pm	

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Proteome-wide Tagging With Genetically Encoded Biosensors To Identify Highly Localised Oxidation Events	<b>Paraskevi Kritsiligkou</b> <i>German Cancer Research Center (DKFZ) Germany</i>	S17: Compartmentalized Redox Signaling in Crowded Cells	Sat, Nov 18 3:20 pm - 3:40 pm	
MitoPerSulf: Mitochondrial-Targeted Protection Against Cardiac Ischemia-Reperfusion via Rapid Persulfide and H <sub>2</sub> S Release	<b>Jan Miljkovic</b> <i>University of Cambridge United Kingdom</i>	S18: Posttranslational Redox Modifications of Proteins in Inflammatory Signaling: S-Nitrosylation and S-Persulfidation	Sat, Nov 18 3:00 pm - 3:20 pm	
Structural and Functional Consequences of Tyrosine Nitration in the Hsp90 Chaperone	<b>Alfonso Taboada</b> <i>Universidad de la República - Uruguay Uruguay</i>	S18: Posttranslational Redox Modifications of Proteins in Inflammatory Signaling: S-Nitrosylation and S-Persulfidation	Sat, Nov 18 3:20 pm - 3:40 pm	