




Abstract Title	Author / Affiliation	Session	Date / Time	Travel Award
Supersulfide Synthesis in Mitochondria is Essential for Mitochondrially-Encoded Protein Expression	<b>Shohei Murakami</b> <i>Tohoku University Japan</i>	S1: New Aspects of Redox-active Sulfur and Sulfide in Health and Disease	Thurs, Nov 21 11:15 am - 11:35 am	
Analyzing Methamphetamine Effects on Blood-Brain-Barrier Endothelial Cells: Role of CSE and MMP3 Expression	<b>Claire Kevil</b> <i>LSU Health Shreveport United States</i>	S1: New Aspects of Redox-active Sulfur and Sulfide in Health and Disease	Thurs, Nov 21 11:35 am - 11:55 am	
Gut H2S metabolism influences brain functions	<b>Roshan Kumar</b> <i>University of Michigan United States</i>	S1: New Aspects of Redox-active Sulfur and Sulfide in Health and Disease	Thurs, Nov 21 11:55 am - 12:15 pm	
Extracellular Superoxide Dismutase Content Modulates Hypoxia-induced Platelet Activation, Interstitial Macrophage Accumulation/Reprogramming and Hyaluronan Binding	<b>Caitlin Lewis</b> <i>University of Colorado United States</i>	S2: Beyond the Cell: Oxidation of the Extracellular Matrix in Physiology and Disease	Thurs, Nov 21 11:15 am - 11:35 am	
Interaction between Protein Disulfide Isomerase-A1 and Enolase1 as a potential mechanism protecting against aortic disease.	<b>Sara Ventura</b> <i>The Heart Institute - FMUSP Brazil</i>	S2: Beyond the Cell: Oxidation of the Extracellular Matrix in Physiology and Disease	Thurs, Nov 21 11:35 am - 11:55 am	
Redox regulation of platelet-neutrophil interactions in Staphylococcus aureus pneumonia	<b>Christina Sul</b> <i>University of Colorado Anschutz Medical United States</i>	S2: Beyond the Cell: Oxidation of the Extracellular Matrix in Physiology and Disease	Thurs, Nov 21 11:55 am - 12:15 pm	
Peroxiredoxin 3 Supports Tumor Cell Proliferation, Migration, Mitochondrial Function and Metastatic Gene Expression	<b>Victoria Gibson</b> <i>University of Vermont United States</i>	S3: Unveiling the Therapeutic Potential: Exploring Redox Signaling from Fundamentals to Drug Targets	Thurs, Nov 21 3:15 pm - 3:35 pm	
Zinc-mediated inhibition of soluble epoxide hydrolase promotes pulmonary hypertension	<b>Stanley Buffonge</b> <i>Queen Mary University of London United Kingdom</i>	S3: Unveiling the Therapeutic Potential: Exploring Redox Signaling from Fundamentals to Drug Targets	Thurs, Nov 21 3:35 pm - 3:55 pm	
Mitochondrial Electron Transport Chain Inhibition Suppresses NRF2 Expression in NSCLC	<b>Chang Jiang</b> <i>H. Lee Moffitt Cancer Center and United States</i>	S3: Unveiling the Therapeutic Potential: Exploring Redox Signaling from Fundamentals to Drug Targets	Thurs, Nov 21 3:55 pm - 4:15 pm	
CYB5R3 regulates endothelial store-operated Ca <sup>2+</sup> signaling via NO-dependent mechanism	<b>Mate Katona</b> <i>University of Pittsburgh United States</i>	S4: Nitric Oxide and Guanylyl Cyclase: Insights and Implications for Human Cardiovascular Pathophysiology	Thurs, Nov 21 3:15 pm - 3:35 pm	

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Phosphodiesterase 9A Inhibition Improves Coronary Microvascular Disease and Diastolic Dysfunction in a HFpEF Model via PRDX5-Linked Antioxidant Mechanisms	<b>Katie Anne Fopiano</b> <i>Medical College of Georgia, Augusta United States</i>	S4: Nitric Oxide and Guanylyl Cyclase: Insights and Implications for Human Cardiovascular Pathophysiology	Thurs, Nov 21 3:35 pm - 3:55 pm	
Nitrated Fatty Acids as early modulators of monocyte function in Atherosclerosis	<b>Maria Victoria Gutierrez</b> <i>National University of Cordoba. CIBICI-Argentina</i>	S4: Nitric Oxide and Guanylyl Cyclase: Insights and Implications for Human Cardiovascular Pathophysiology	Thurs, Nov 21 3:55 pm - 4:15 pm	
Baseline Oxygen Level Affects the Transcriptional and Metabolic Responses of Prostate Cancer Cells to Hypoxia	<b>Ricardo Alva</b> <i>Brock University Canada</i>	S5: DNA Damage and Genomic Instability	Fri, Nov 22 11:15 am - 11:35 am	
Nitroalkenes Exploit Dependence on Autophagy-Lysosome Pathway in PARPi-Resistant Triple Negative Breast Cancer	<b>Lisa Hong</b> <i>University of Pittsburgh United States</i>	S5: DNA Damage and Genomic Instability	Fri, Nov 22 11:35 am - 11:55 am	
Oxidative DNA Damage and Chromatin Structure: Understanding the Influences on the Redox Mutational Landscape of Human Cancers	<b>Cameron Cordero</b> <i>University of Vermont United States</i>	S5: DNA Damage and Genomic Instability	Fri, Nov 22 11:55 am - 12:15 pm	
Novel Role of Copper Transport Proteins in Oxidative Stress-Dependent Brain Endothelial Barrier Dysfunction and Inflammation Associated with Alzheimer's Disease	<b>Md. Selim Hossain</b> <i>Medical College of Georgia at Augusta United States</i>	S6: Recent Advances in Heme Proteins and Redox Signaling in Vascular Biology and Beyond	Fri, Nov 22 11:15 am - 11:35 am	
Redox regulation of lung endothelial PERK, unfolded protein response (UPR) and proliferation; Selective NOX1 inhibition as a potential therapy for PAH	<b>Christian Goossen</b> <i>University of Pittsburgh United States</i>	S6: Recent Advances in Heme Proteins and Redox Signaling in Vascular Biology and Beyond	Fri, Nov 22 11:35 am - 11:55 am	
Hemoglobin Alpha is a Redox-Sensitive Regulator of T-lymphocytes	<b>Emily Reed</b> <i>Texas A&amp;M University United States</i>	S6: Recent Advances in Heme Proteins and Redox Signaling in Vascular Biology and Beyond	Fri, Nov 22 11:55 am - 12:15 pm	
Fine Particulate Matter Induces Glycolysis in Lung Epithelial Cells via m6A Methylation of HIF-1 $\alpha$	<b>Yishu Dong</b> <i>The Florida International University United States</i>	S7: Redox Regulation of the Epigenome (presented by the Trainee Council)	Fri, Nov 22 3:15 pm - 3:35 pm	
Nitro-oleic acid redirects energy substrate utilization to shift macrophage polarization	<b>Emily Stevenson</b> <i>University of Pittsburgh United States</i>	S7: Redox Regulation of the Epigenome (presented by the Trainee Council)	Fri, Nov 22 3:35 pm - 3:55 pm	

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Investigating the Metabolic and Epigenetic Roles of PBK in Pulmonary Arterial Hypertension	<b>Zachary Brown</b> <i>Augusta University United States</i>	S7: Redox Regulation of the Epigenome (presented by the Trainee Council)	Fri, Nov 22	3:55 pm - 4:15 pm	
Radiation-induced Glioblastoma Extracellular Vesicles Containing 4HNE Promote Microglia-Mediated Neurotoxicity	<b>Sara Macias Palacio</b> <i>University of Kentucky United States</i>	S8: Lipidomics, Oxidative Stress, and Relevance in Human Health and Disease	Fri, Nov 22	3:15 pm - 3:35 pm	
Lipid Quality Control: Protection Of Stored Lipids From Oxidative Damage Is Mediated By Ferroptosis Suppressor Protein 1	<b>Mike Lange</b> <i>University of California, Berkeley United States</i>	S8: Lipidomics, Oxidative Stress, and Relevance in Human Health and Disease	Fri, Nov 22	3:35 pm - 3:55 pm	
A New Function of PUFA-Plasmalogens in Ferroptosis	<b>Brian Kleiboeker</b> <i>University of Pittsburgh United States</i>	S8: Lipidomics, Oxidative Stress, and Relevance in Human Health and Disease	Fri, Nov 22	3:55 pm - 4:15 pm	
Sulfenylation of Drp1 in Endothelial Cells Couples VEGF-induced Redox Signaling and Glycolysis to Drive Angiogenesis	<b>Sheela Nagarkoti</b> <i>Medical College of Georgia at Augusta United States</i>	S10: Molecular Mitochondrial Interplay in Striated Muscle in Aging and Disease	Sat, Nov 23	11:15 am - 11:35 am	
Skeletal Muscle Metabolomics Reveal mtDNA- and Diet-Specific Metabolic Profiles in a Mouse Model of Diet-Induced Cardiometabolic Disease	<b>Abhishek Shastry</b> <i>Queen's University Canada</i>	S10: Molecular Mitochondrial Interplay in Striated Muscle in Aging and Disease	Sat, Nov 23	11:35 am - 11:55 am	
Investigation of the biological function of the double localization of Prx1 in the mitochondria of <i>Saccharomyces cerevisiae</i>	<b>Sophia B Cozzo</b> <i>USP – University of São Paulo Brazil</i>	S10: Molecular Mitochondrial Interplay in Striated Muscle in Aging and Disease	Sat, Nov 23	11:55 am - 12:15 pm	
Alterations in Redox Homeostasis and Thiol Metabolism of Glioblastoma versus Normal Brain in Response to Treatment with Redox-Active Therapeutics	<b>Kamal Shaik</b> <i>Ivy Brain Tumor Center - Drexel United States</i>	S11: Innovative Aspects of Blood Redox Biomarkers	Sat, Nov 23	3:15 pm - 3:35 pm	
Catalase, Azide, and Peroxide Reaction Produces Nitroxyl	<b>Weijun Gao</b> <i>Wake Forest University United States</i>	S11: Innovative Aspects of Blood Redox Biomarkers	Sat, Nov 23	3:35 pm - 3:55 pm	
EPR Imaging as a Tool for Biomedical Research and Clinical Applications: Acute lung Injury	<b>Hanan Elajaili</b> <i>University of Colorado United States</i>	S11: Innovative Aspects of Blood Redox Biomarkers	Sat, Nov 23	3:55 pm - 4:15 pm	



NOVEMBER 20-23  
SAVANNAH GEORGIA

**ORAL PRESENTATIONS**  
(by Presentation Day)

<b>Abstract Title</b>	<b>Author / Affiliation</b>	<b>Session</b>	<b>Date / Time</b>		<b>Travel Award</b>
Inducible and reversible SOD2 knockdown in mouse skeletal muscle drives impaired pyruvate oxidation and metabolic inflexibility	<b>Ethan Ostrom</b> <i>University of Washington United States</i>	S12: A Mito-centric View in Healthy Aging: Redox Homeostasis and Lifestyle Interventions	Sat, Nov 23	3:15 pm - 3:35 pm	
Decoding mitophagy suppression by phosphorylated tau in a <i>Caenorhabditis elegans</i> model of Alzheimer's disease	<b>Upasana Ganguly</b> <i>University of Rochester United States</i>	S12: A Mito-centric View in Healthy Aging: Redox Homeostasis and Lifestyle Interventions	Sat, Nov 23	3:35 pm - 3:55 pm	
Sex-Dependent Effects of Gut Microbiome-Derived Metabolite $\delta$ -Valerobetaine on Aging	<b>Gahyun Lim</b> <i>Emory University United States</i>	S12: A Mito-centric View in Healthy Aging: Redox Homeostasis and Lifestyle Interventions	Sat, Nov 23	3:55 pm - 4:15 pm	