SfRBM25
NOVEMBER 19-22, 2025 | CAPITAL HILTON
WASHINGTON, DC

ORAL PRESENTATIONS
(by Presentation Day)

Abstract Title	Author / Affiliation	Session	Date / Time		Travel Award
Neuro-pharmacokinetic assessment of manganese porphyrin-based superoxide dismutase mimics	**William Knight** *Ivy Brain Tumor Center, Barrow* *USA*	S1: Drug Discovery and Medicinal Chemistry Approaches Applied for Redox Biology Targeting KEAP1	Thurs, Nov 20	11:15 am - 11:35 am	
Novel ubiquinone-based nitroalkene inhibits ferroptosis in Parkinson's disease	**Lauren Cooke** *University of Pittsburgh School of* *USA*	S1: Drug Discovery and Medicinal Chemistry Approaches Applied for Redox Biology Targeting KEAP1	Thurs, Nov 20	11:35 am - 11:55 am	
High-resolution crystal structure of Prx1-C51S, a 1-Cys Prx involved with Aspergillus fumigatus virulence	**Maria Oliveira Batista** *University of Sao Paulo* *BRAZIL*	S1: Drug Discovery and Medicinal Chemistry Approaches Applied for Redox Biology Targeting KEAP1	Thurs, Nov 20	11:55 am - 12:15 pm	
Glioblastoma-derived Extracellular Vesicles as modulators of Neuroinflammatory Responses and Tumor Aggressiveness	**Sara Macias Palacio** *University of Kentucky* *USA*	S2: From Signal to Solution: Extracellular Vesicles as Redox Regulators and Therapeutic Agents	Thurs, Nov 20	11:15 am - 11:35 am	
Obese and irradiated obese adipocytes secretome drives prostate cancer progression and radioresistance via CCL5-CCR5-AKT Signaling Axis.	**Simran Takkar** *University of Nebraska Medical Center* *USA*	S2: From Signal to Solution: Extracellular Vesicles as Redox Regulators and Therapeutic Agents	Thurs, Nov 20	11:35 am - 11:55 am	
BAG5 Protects Cardiomyocytes from Oxidative Stress	**Gbenga Ogundipe** *University of Central Florida* *USA*	S2: From Signal to Solution: Extracellular Vesicles as Redox Regulators and Therapeutic Agents	Thurs, Nov 20	11:55 am - 12:15 pm	
Specific oxidized phosphatidylethanolamines drive renal proximal tubular cell death via ferroptosis – implications for diabetic kidney disease	**Krisztian Stadler** *Pennington Biomedical Research Center* *USA*	S3: Bridging Redox Biology and Nephrology to Advance Kidney Health	Thurs, Nov 20	3:15 pm - 3:35 pm	
Role of NRF2 in Promoting HIF-2α-Driven Tumor Aggressiveness in Clear-Cell Renal Cell Carcinoma	**Mi-Kyoung Kwak** *The Catholic University of Korea, College* *SOUTH KOREA*	S3: Bridging Redox Biology and Nephrology to Advance Kidney Health	Thurs, Nov 20	3:35 pm - 3:55 pm	
Reducing Endothelial Glycolysis Impairs Vascular Function and Drives Sex-Specific Metabolic Changes	**Adam Saloň** *Augusta University/Vascular Biology* *USA*	S3: Bridging Redox Biology and Nephrology to Advance Kidney Health	Thurs, Nov 20	3:55 pm - 4:15 pm	
Dual-Phase Role of Irradiated Adipocytes in Promoting Breast Cancer Cell Migration	**Liu Mei** *University of Nebraska Medical Center* *USA*	S4: Linking Oxidative Stress and Senescence to Diseases	Thurs, Nov 20	3:15 pm - 3:35 pm	

SfRBM25
NOVEMBER 19-22, 2025 | CAPITAL HILTON
WASHINGTON, DC

ORAL PRESENTATIONS
(by Presentation Day)

Abstract Title	Author / Affiliation	Session	Date / Time		Travel Award
Glutaredoxin status regulates cellular senescence in aged lung fibroblasts in association with S-glutathionylation of P16INK4a	**Hend Abdelhamid** *University of Vermont* *USA*	S4: Linking Oxidative Stress and Senescence to Diseases	Thurs, Nov 20	3:35 pm - 3:55 pm	
Targeting Oxidative Stress–Associated Vascular Senescence in Premature Aging with Novel mTOR Inhibitors Identified by Multi-Omics Discovery Platform	**Perinur Bozaykut** *Tufts University* *USA*	S4: Linking Oxidative Stress and Senescence to Diseases	Thurs, Nov 20	3:55 pm - 4:15 pm	
Redox Disruption as a Driver of Autism-Like Behavior in Zebrafish	**Bailey Calder** *Brigham Young University* *USA*	S5: Redox Regulation of Differentiation and Development	Fri, Nov 21	11:15 am - 11:35 am	
Trx1 knockout mice exhibit impaired lung development and evidence of increased apoptosis	**Alyssa Wheeler** *University of Oklahoma-Health Sciences* *USA*	S5: Redox Regulation of Differentiation and Development	Fri, Nov 21	11:35 am - 11:55 am	
Maternal and fetal overexpression of extracellular superoxide dismutase (EC-SOD) protects offspring lung in a model of late gestational hypoxia	**Thi-Tina Nguyen** *University of Colorado | Anschutz Medical* *USA*	S5: Redox Regulation of Differentiation and Development	Fri, Nov 21	11:55 am - 12:15 pm	
Protonmotive Force Functions as an Electrical Signal to Synchronize Mitochondrial Networks	**Nada Selim** *University of Rochester Medical Center* *USA*	S6: The Extraordinary Reach of Metabolism: From Redox Regulation to (Patho)physiology	Fri, Nov 21	11:15 am - 11:35 am	
Metabolic remodeling in neutrophils derived from emergency granulopoiesis	**Tyler Jobe** *University of Louisville* *USA*	S6: The Extraordinary Reach of Metabolism: From Redox Regulation to (Patho)physiology	Fri, Nov 21	11:35 am - 11:55 am	
HIV Therapeutics in the Maternal Heart: A Role for Mitochondria in Maternal Health	**Nicole Taube** *NIEHS* *USA*	S6: The Extraordinary Reach of Metabolism: From Redox Regulation to (Patho)physiology	Fri, Nov 21	11:55 am - 12:15 pm	
Compartment-specific regulation of the protonmotive force in neurons	**Elena Morin** *Universiy of Rochester Medical Center* *USA*	S7: Dynamic Regulation of Organelle-specific Oxidant Metabolism	Fri, Nov 21	3:15 pm - 3:35 pm	
Nicotinamide nucleotide transhydrogenase (NNT) regulates redox dependent cardiac remodeling in HFpEF	**SONU GUPTA** *Augusta University* *USA*	S7: Dynamic Regulation of Organelle-specific Oxidant Metabolism	Fri, Nov 21	3:35 pm - 3:55 pm	

SfRBM25
NOVEMBER 19-22, 2025 | CAPITAL HILTON
WASHINGTON, DC

ORAL PRESENTATIONS
(by Presentation Day)

Abstract Title	Author / Affiliation	Session	Date / Time		Travel Award
Mitochondrial Resilience Enables Extraordinary Hypoxia Tolerance in Long-Lived Species	**Perinur Bozaykut** *Tufts University - Human Nutrition* *USA*	S7: Dynamic Regulation of Organelle-specific Oxidant Metabolism	Fri, Nov 21	3:55 pm - 4:15 pm	
The mitochondrial antioxidant peroxiredoxin 3 is a tractable therapeutic target in mesothelioma	**Victoria Gibson** *University of Vermont* *USA*	S10: Redox Biology and Metabolism in Cancer	Sat, Nov 22	11:15 am - 11:35 am	
Redox maintenance of the nucleotide pool as a key oncogenic dependency in KRAS-driven cancer and its tumor microenvironment	**Beatriz Mateo-Victoriano** *University of Miami Miller School of* *USA*	S10: Redox Biology and Metabolism in Cancer	Sat, Nov 22	11:35 am - 11:55 am	
Targeting peroxiredoxin 2 prevents hepatocarcinogenesis in metabolic liver disease	**Emilie Crouchet** *University of Strasbourg/Inserm U1110* *GERMANY*	S10: Redox Biology and Metabolism in Cancer	Sat, Nov 22	11:55 am - 12:15 pm	
The P-type ATPase transporter ATP7A as a Critical Regulator of Copper Metabolism, Metabolic Reprogramming, and EndMT in Atherosclerosis	**Dipankar Ash** *Augusta University* *USA*	S11: Copper: A Key Redox and Metabolic Signaling Mediator in Cancer and Cardiovascular Disease	Sat, Nov 22	3:15 pm - 3:35 pm	
Cu Transport Proteins as Novel Therapeutic Targets for Cu-dependent Brain Endothelial Barrier Dysfunction and Cuproptosis linked to Alzheimer's Disease	**Md. Selim Hossain** *Augusta University* *USA*	S11: Copper: A Key Redox and Metabolic Signaling Mediator in Cancer and Cardiovascular Disease	Sat, Nov 22	3:35 pm - 3:55 pm	
KCTD12 redox state as a determinant and therapeutic target in pulmonary remodeling	**Daniel de Jesus** *Willian Harvey Research Institute/Queen* *UK*	S11: Copper: A Key Redox and Metabolic Signaling Mediator in Cancer and Cardiovascular Disease	Sat, Nov 22	3:55 pm - 4:15 pm	
Structural and redox characterization of mitochondrial protein phosphatases: identification of a novel oxidation product cysteine-S - N-arginine	**Luciana Elena Machado** *Institute of Chemistry - University of* *BRAZIL*	S12: Redox Protein Modifications: From Biochemistry to Physiochemistry to Physiology	Sat, Nov 22	3:15 pm - 3:35 pm	
Human MnSOD acetylation: a potential protective mechanism against nitration and loss of activity	**Veronica Demicheli** *Universidad de la República* *URUGUAY*	S12: Redox Protein Modifications: From Biochemistry to Physiochemistry to Physiology	Sat, Nov 22	3:35 pm - 3:55 pm	
Nitrated Hsp90 supports glioblastoma cell proliferation	**Inge Claassen** *Florida International University* *USA*	S12: Redox Protein Modifications: From Biochemistry to Physiochemistry to Physiology	Sat, Nov 22	3:55 pm - 4:15 pm	

ORAL PRESENTATIONS
(by Presentation Day)

Abstract Title	Author / Affiliation	Session	Date / Time		Travel Award
Impaired mitochondrial quality control and lysosomal system may contribute to muscle atrophy in Friedreich's ataxia	**Eunbin Jee** *University of Massachusetts Lowell* *USA*	S9: Redox Biology in Exercise: A "Radically" Different Approach	Sat, Nov 22	11:15 am - 11:35 am	
Platelet and skeletal muscle mitochondrial bioenergetics correlate in a murine model of Type II Diabetes	**Mia Wilkinson** *Queen's University* *UK*	S9: Redox Biology in Exercise: A "Radically" Different Approach	Sat, Nov 22	11:35 am - 11:55 am	
Strength training mitocondrial and redox remodeling during aging: from preclinical to clinical studies	**Silvana Soto Rodríguez** *Universidad de Valencia* *SPAIN*	S9: Redox Biology in Exercise: A "Radically" Different Approach	Sat, Nov 22	11:55 am - 12:15 pm	