

SfRBM 2021 • Oral Presentation Schedule

DAY 1: TUESDAY, NOVEMBER 16, 2021



SESSION 1 Aging and Neurodegeneration

Chairs: TBA

TIME	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:00 pm - 2:20 pm	Sofia Bibili	Goethe University - Germany	Cystathionine gamma lyase expression/activity delays endothelial senescence
2:20 pm - 2:40 pm	Brandon Berry	University of Washington - USA	Mitochondrial Protonmotive Force Regulates Aging and Longevity in C. elegans
2:40 pm - 3:00 pm	Jacob Brown	Oklahoma Medical Research Foundation - USA	Lipid hydroperoxides are key drivers of denervation-induced muscle atrophy
3:00 pm - 3:20 pm	Piyush Padhi	Iowa State University - USA	Emerging Microbiome Genetic Engineering Technology for Stable Levodopa Delivery in Parkinson's Disease
3:20 pm - 3:40 pm	Lilia Koza	The University of Denver - USA	Significant and Sex-Specific Antioxidant Biomarker Depletion in Patients with a History of Mild Traumatic Brain Injury

SESSION 2 Redox Chemistry and Toxicology

Chairs: TBA

TIME	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:00 pm - 2:20 pm	Oliver Thom-Seshold	LMU Munich - Germany	Development of a chemical probe that selectively images the activity of mammalian Thioredoxin Reductase 1
2:20 pm - 2:40 pm	Jennifer Stancill	Medical College of Wisconsin - USA	Chronic thioredoxin reductase deficiency disrupts redox homeostasis and impairs beta-cell function
2:40 pm - 3:00 pm	Avinash Londhe	State University of New York - USA	Characterization of Peptide Activators of Protein Tyrosine Phosphatase 1B
3:00 pm - 3:20 pm	Jordyn Wilcox	Vanderbilt University - USA	Chronic Manganese (Mn) Exposure Induces Hyperactivity and Dopaminergic Dysfunction in Young C57Bl/6 Mice
3:20 pm - 3:40 pm	David Yang	University of California, Davis - USA	MARCKS/AXL Fibrogenic Complex Activated in Tobacco Smoke Promotes Macrophage Reprogramming and Pulmonary Fibrosis

DAY 2: WEDNESDAY, NOVEMBER 17, 2021

SESSION 3 Redox Biology of Vasculature and Lung

Chairs: TBA

Time	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:00 pm - 2:20 pm	Sheela Nagarkoti	Augusta University - USA	Protein Disulfide Isomerase A1 functions as a Novel Redox Sensor in VEGFR2 Signaling and Angiogenesis
2:20 pm - 2:40 pm	Elizabeth Corteselli	University of Vermont - USA	Oxidative Inactivation of Cathepsin B is Associated with Dysregulated Airway Stem Cell Proteostasis and Repair
2:40 pm - 3:00 pm	Clinton-Matthew Mathai	Albany Medical College - USA	NOX4 sensitive CYGB-HMGB2 axis regulates DNA damage repair pathways and gene programs in the vasculature
3:00 pm - 3:20 pm	Dipankar Ash	Augusta University - USA	Endothelial Cu Transporter ATP7A deficiency promotes Endothelial-to-mesenchymal Transition and Atherosclerosis via inducing Metabolic Reprogramming
3:20 pm - 3:40 pm	Joao Wosniak Jr	University of São Paulo - Brazil	Sustained overexpression of Protein Disulfide Isomerase-A1 induces profound mitochondrial reorganization and a differentiated vascular smooth muscle

SESSION 4 Bioenergetics, Mitochondria and Metabolism

Chairs: TBA

TIME	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:00 pm - 2:20 pm	Le Gia Cat Pham	Albany Medical College - USA	Cytoglobin promotes a reduced intracellular environment and interacts with PRXD2
2:20 pm - 2:40 pm	Nathaniel Shannon	University of Vermont - USA	Miro1-mediated mitochondrial positioning supports subcellular redox status
2:40 pm - 3:00 pm	Zaineb Javed	Penn State University - USA	Expression of ovarian cancer-specific Drp1 splice variants differentially regulates mitochondrial dynamics
3:00 pm - 3:20 pm	Felipe Paredes	Emory University - USA	The mitochondrial protease ClpXP regulates the phenotype of VSMC by a SIRT1-dependent mechanism
3:20 pm - 3:40 pm	Matthew Ryan Smith	Emory University - USA	Using Platelets to Identify Metabolic Hubs Associated with Pulmonary Hypertension Pathogenesis

DAY 3: THURSDAY, NOVEMBER 18, 2021

SESSION 5 Redox Biology in Cancer

Chairs: TBA

TIME	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:30 pm - 2:50 pm	Sander Bekeschus	University of Greifswald - Germany	Medical gas plasma as innovative ROS-technology for melanoma combination therapy
2:50 pm - 3:10 pm	Alexandre Sathler	Oregon State University - USA	A Computational Method to Visualize Nitrated Hsp90 Distribution in 3D Culture Models
3:10 pm - 3:30 pm	Isabelle Logan	Oregon State University - USA	Nitration of Heat Shock Protein 90 Affects its Spatial Distribution and Promotes the Survival/Proliferation of Schwannoma Cells
3:30 pm - 3:50 pm	Flavio Palma	Northwestern University - USA	Destabilization of retinoblastoma protein (pRb) by nuclear ROS provides a novel mechanistic link between aging and cancer
3:50 pm - 4:10 pm	John Skoko	University of Pittsburgh - USA	Peroxioredoxin-1 Tyr194 phosphorylation regulates LOX-dependent Extracellular Matrix Remodeling in Breast Cancer

SESSION 6 Interactions between Redox and Inflammation

Chairs: TBA

TIME	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:30 pm - 2:50 pm	Clint Upchurch	University of Virginia - USA	Virus-induced hepatic expression of an oxidized phospholipid-binding antibody fragment prevents initiation of steatohepatitis and progression to fibrosis
2:50 pm - 3:10 pm	Alessandra Pecorelli	North Carolina State University - USA	Aberant Mitochondrial Bioenergetics Fuels Inflammasome Machinery in Autism Spectrum Disorder
3:10 pm - 3:30 pm	Mohamad Assi	NYU Langone Health - USA	Peroxioredoxin-1 Maintains Inflammation during Pancreatitis
3:30 pm - 3:50 pm	Scott Yeudall	University of Virginia - USA	An Unexpected Role for Acetyl Coenzyme A Carboxylase in Metabolic Control of the Macrophage Acute Inflammatory Response
3:50 pm - 4:10 pm	Dario Vitturi	University of Pittsburgh - USA	Immunomodulatory actions of a kynurenine-derived endogenous electrophile.