SfRBM 2019 • Oral Presentation Schedule • Las Vegas



	ALTERATION ATTEMPTON	
2:30 pm - 2:50 pm	oris Germain Icahn School of Medicine at Mount	Sinai SOD1 and SOD2 play differential role during tumor initiation and metastasis.
2:50 pm - 3:10 pm		Disulfiram causes selective hypoxic cancer cell toxicity and radio-chemo-sensitization via redox cycling of copper
3:10 pm - 3:30 pm	nashank Shrishrimal University of Nebraska Medical Cen	er MnTE-2-PyP treatment protects from radiation-induced fibrosis (RIF) by activating the NRF2/Sirtuin/MnSOD pathway.
3:30 pm - 3:50 pm	arah Schlichte University of Nebraska Medical Cen	Pr Nanoformulation of the Clinically-Tested SOD Mimic, MnTnBuOE-2-PyP5+, Attenuates Its Hypotensive Action at High Dosing
3:50 pm - 4:10 pm	asuko Ushio-Fukai Medical College of Georgia at Augu	sta Univ. Cu Transporter CTR1 Couples to VEGFR2 via Thiol Oxidation to Promote Angiogenesis
2:50 pm - 3:10 pm 3:10 pm - 3:30 pm 3:30 pm - 3:50 pm	elly Hubert The University of Iowa nashank Shrishrimal University of Nebraska Medical Cen arah Schlichte University of Nebraska Medical Cen	Disulfiram causes selective hypoxic cancer cell toxicity and radio-chemo-sensitization ver MnTE-2-PyP treatment protects from radiation-induced fibrosis (RIF) by activating the ler Nanoformulation of the Clinically-Tested SOD Mimic, MnTnBuOE-2-PyP5+, Attenuates

ABSTRACT TITLE

SESSION 2	TITLE: Redox Regulation of Inflammatory Responses
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Chairs: Karina Ckless and Rakesh Patel

2:30 pm - 2:50 pm	Beth Worley	Penn State University	MPZL3 as a novel metabolic regulator of inflammation
2:50 pm - 3:10 pm	Sivareddy Kotla	University of Texas MD Anderson Cancer Ctr	Cardiotoxic cancer treatment (CTCT) promotes oxidative stress and alters monocyte/ macrophage biology
3:10 pm - 3:30 pm	Rogerio Aleixo Silva	University of São Paulo - Brazil	Structural and biochemical characterization of LsfA, a 1-Cys Prx involved in Pseudomonas aeruginosa virulence
3:30 pm - 3:50 pm	Benjamin Rood	University of Louisville	Exposure to air pollution dysregulates lipid metabolism in mice
3:50 pm - 4:10 pm	Ayed Allawzi	University of Colorado	Selective depletion of vascular EC-SOD reprograms interstitial macrophages in a murine model of hypoxic pulmonary hypertension

SESSION 3 TITLE: Oxidative Signaling and Inflammation Chairs: Luis Netto and Samantha Giordano TIME PRESENTER AFFILIATION ABSTRACT TITLE

Boston University

University of Yamanashi - Japan

DAY 2: FRIDAY, NOVEMBER 22, 2019

3:30 pm - 3:50 pm Syed Husain Mustafa Rizvi

3:50 pm - 4:10 pm Zhimin Mao

SESSION 4	TITLE: Oxidant Signaling in Chairs: Allan Butterfield and Ton		
Time	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:30 pm - 2:50 pm	Ted Piorczynski	Brigham Young University	Inhibition of valproic acid-induced neural tube defects through Nrf2 signaling
2:50 pm - 3:10 pm	Allan Butterfield	University of Kentucky	INTRANASAL RAPAMYCIN in Ts65Dn DOWN SYNDROME MICE REVERSES BRAIN mTOR ACTIVATION, PREVENTS AD-LIKE NEUROPATHOLOGY, IMPROVES COGNITION, A
3:10 pm - 3:30 pm	Tomohiro Nakamura	The Scripps Research Institute	S-Nitrosylation of Uch-L1 Mediates β-Amyloid-Related Synaptic Injury in Models of Alzheimer's Disease
3:30 pm - 3:50 pm	Nagakannan Pandian	University of Manitoba - Canada	Identification of Cathepsin B as a potential therapeutic target for treatment of Spinal Cord Injury
3:50 pm - 4:10 pm	Cassandra Moshfegh	University of Nebraska Medical Center	Redox-Regulated Calprotectin as a Possible Novel Regulator of Pro-Inflammatory T-lymphocytes after Psychological Trauma
SESSION 5	TITLE: Redox in the Cardiov	ascular System	
	Chairs: Chris Kevil and Clare Hav	wkins	
TIME	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:30 pm - 2:50 pm	Clinton-Matthew Mathai	Albany Medical College	Oxidant sensing by cytoglobin promotes its nuclear translocation to prevent oxidative damage in the vasculature
2:50 pm - 3:10 pm	Vlad Serbulea	University of Virginia	Bioenergetic changes underlie PDGFRB- and IL1B-driven atherosclerotic lesion stabilization by vascular cells
3:10 pm - 3:30 pm	Gobinath Shanmugam	University of Alabama at Birmingham	Truncated Nrf2 Induces Reductive Stress and Impairs ER Function – A Novel Mechanism for Myocardial Diastolic Dysfunction
3:30 pm - 3:50 pm	Mathews Valuparampil Varghese	The University of Arizona	Attenuation of metabolic reprogramming in pulmonary hypertension using antioxidant conjugated peptide
3:50 pm - 4:10 pm	Fangfei Liu	University of Reading - UK	p47phox-dependent redox-regulation of AngII–induced cardiac hypertrophy
SESSION 6	TITLE: Redox Biochemical S	ignaling	
	Chairs: Ohara Augusto and Ana	Denicola	
TIME	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:30 pm - 2:50 pm	Ana Denicola	Universidad de la República - Uruguay	Role of C-terminal region on the resolution step of Prx2 catalysis
2:50 pm - 3:10 pm	Marco Fazzari	University of Pittsburgh	Endogenous formation of novel nitro-nitrate species as intermediates of fatty acid nitration
3:10 pm - 3:30 pm	Miranda Leek	Oregon State University	A Biochemical and Biophysical Investigation into the Pathological Gain-of-Function of Nitrated Hsp90

Hydrogen Sulfide Determines Tumor Cell Sensitivity to Thioredoxin Inhibitor PX-12

S-glutathionylation of glyceraldehyde 3-phosphate dehydrogenase regulates Sirtuin-1 function through trans-glutathionylation: Implication of glutaredoxin-1

DAY 3: SATURDAY, NOVEMBER 23, 2019

SESSION 7	TITLE: Novel Insights in Redox Biology Chairs: Prabhat Goswami and Anna-Liisa Levonen		
TIME	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:30 pm - 2:50 pm	Suriyan Sukati	University of Kentucky	Vitamin E modulates extracellular vesicles mediated-immune activation via NFKB and NRf-2 pathways
2:50 pm - 3:10 pm	Takaaki Akaike	Tohoku University - Japan	Reactive persulfides mediate sulfur respiration in mitochondria via sulfide:quinone oxidoreductase
3:10 pm - 3:30 pm	Dan Yang	The University of Hong Kong - China	Fluorogenic Probes for Selective Detection and Imaging of Cardiolipin
3:30 pm - 3:50 pm		University of Leipzig - Germany	Mechanistic Investigation of Lipid Peroxidation in Artificial Lipid Droplets
3:50 pm - 4:10 pm	Prabhat Goswami	The University of Iowa	Higher lipolysis in older normal human fibroblasts promotes progression and therapy resistance of pancreatic cancer
SESSION 8	TITLE: Oxidative Stress and Metabolism Chairs: Ester Zito and Victor Darley-Usmar		
TIME	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:30 pm - 2:50 pm		University of Kentucky	Mitochondrial superoxide targets energy metabolism to impact epigenetic regulation of NRF2-mediated transcription
2:50 pm - 3:10 pm	Carlos Henriquez	University of Copenhagen - Denmark	Dissecting myocellular ROS sources controlling exercise metabolism and muscle insulin resistance
3:10 pm - 3:30 pm	Ester Zito	Mario Negri Inst of Pharmal Science - Italy	Selenoprotein N regulates mitochondrial bioenergetics by modulating endoplasmic reticulum-mitochondria contacts
3:30 pm - 3:50 pm		The University of Iowa	Pharmacologic inhibition of NAMPT induces metabolic oxidative stress and radio-chemo-sensitization in NSCLC
3:50 pm - 4:10 pm	Zaineb Javed	Penn State University	Heterogenous expression of Drp1 variants regulate mitochondrial dynamics in ovarian cancer
SESSION 9	TITLE: Redox Throughout t	•	
	Chairs: Eva Grayck and Jos var		
TIME	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:30 pm - 2:50 pm	Jos van der Velden	University of Vermont	Increased survival in KRASG12D-induced lung tumorigenesis with a clinically relevant inhibitor of glutathione-S-transferase P
2:50 pm - 3:10 pm	Brandon Davies	Brigham Young University	Real-time imaging of compartmentalized oxidant-induced GSH/GSSG redox shifts in undifferentiated stem cells
3:10 pm - 3:30 pm	Archit Rastogi	University of Massachusetts, Amherst	Rear-une integring of comparimentatized oxidatinification desired by Glutathione modulation in the Developing Zebrafish (Danio rerio) Embryo Pancreatic Nrt2 expression and organ morphogenesis is altered by Glutathione modulation in the Developing Zebrafish (Danio rerio) Embryo
3:30 pm - 3:50 pm		Pacific Northwest National Lab	Pancreaux vinz expression and organ morpringenesis is altered by Guitatinione modulation in the Developing Zebraism (Danio reno) Embryo Role of protein thiol-based redox modifications in hyperoxia-induced preterm lung injury
3:50 pm - 4:10 pm	Kanika Jain	Yale University	Platelet hyperreactivity in advanced age is governed by the novel adaptive changes in intraplatelet antioxidants