

SFRBM 2006 • Oral Presentation Schedule • Denver, CO

DAY 1: THURSDAY, NOVEMBER 16, 2006

SESSION 1			
Gene Expression: ROS and RNS			
TIME	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:00 pm - 2:20 pm	Eva Grayck	University of Colorado Health Science Center	Extracellular Superoxide Regulates Hypoxia-Induced Egr-1 and Tissue Factor
2:20 pm - 2:40 pm	Huiyun Liang	UTHSCSA	PGC-1 Alpha Transgenic Mouse -- A Unique Model for Aging Study
2:40 pm - 3:00 pm	Xuehai Zhu	The Ohio State University	Ischemic Preconditioning Up-Regulates In Vivo Oxygen Consumption and
3:00 pm - 3:20 pm	AbdelWahid Babiker	Duke University Medical Center	Mitochondrial biogenesis in sepsis: a role for inducible nitric oxide synthase
3:20 pm - 3:40 pm	Michael Hitchler	University of Iowa	Histone Modifications Participate In the Transcriptional Regulation of Mang
3:40 pm - 4:00 pm	Melinda Asbury	Marshall University School of Medicine	Acute Dopamine Stimulation in SK-N-MC Neuroepithelioma Cells Causes I
4:00 pm - 4:20 pm	Roman Ginnian	Albany Medical College	NADPH Oxidase NOX1 and NOX4 mediates PKCdelta-dependent activatio
4:20 pm - 4:40 pm	Will Langston	LSU Health Sciences Center	The Cytoplasmic Tail of ICAM-1 Regulates Endothelial Glutathione Synth

SESSION 2			
Oxidative Challenges, Tools and Mechanisms			
TIME	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:00 pm - 2:20 pm	Samir Turakhia	The Ohio State University	Doxorubicin Induced Cardiotoxicity: Direct correlation of cardiac cell surviv
2:20 pm - 2:40 pm	Yali Su	Kronos Science Laboratory	Evaluation of a Multi-parameter Biomarker Set for Oxidative Damage: DNA
2:40 pm - 3:00 pm	Aruna Kode	University of Rochester Medical Center	Cigarette smoke causes post-translational modifications and sequestration
3:00 pm - 3:20 pm	Narasimham Parinandi	The Ohio State University College of Medicine	Airborne Agricultural Particulate Matter-Induced Inflammatory Cytokine Sex
3:20 pm - 3:40 pm	Urmila Kodavanti	USEPA	Susceptibility to Ozone-Induced Injury and Antioxidant Compensation in R
3:40 pm - 4:00 pm	Anson Pierce	UTHSCSA Barshop Institute	GAPDH: A Common Target Protein Affected Structurally and Functionally I
4:00 pm - 4:20 pm	Luis Netto	Institute Biosciences - University of Sao Paulo	Structural and Functional Characterization of Organic Hydroperoxide Resis
4:20 pm - 4:40 pm	Xingmin Wang	University of Oklahoma Health Sciences Center	Extracellular Superoxide from <i>Enterococcus faecalis</i> Induces Aneuploidy ir

SESSION 3			
Oxidation and Nitration: Mechanism, Function and Consequences			
TIME	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:00 pm - 2:20 pm	Krisztian Stadler	NIH/NIEHS	The "radical" side of diabetes - unraveling a free radical mechanism <i>in vivo</i>
2:20 pm - 2:40 pm	Micael Hardy	Medical College of Wisconsin	Detection, characterization and decay kinetics of ROS and thyl adducts of
2:40 pm - 3:00 pm	Michael Davies	The Heart Research Institute	Speed matters! Kinetics and mechanisms of HOCl-mediated damage
3:00 pm - 3:20 pm	Hubert Tse	University of Pittsburgh	Redox Modulation of Innate Immune-Derived Pro-inflammatory Third Sign
3:20 pm - 3:40 pm	Mikiei Tanaka	NHLBI/NIH	Metal catalyzed oxidation of mRNA leads to formation of dysfunctional poly
3:40 pm - 4:00 pm	Olivier Lardinois	NATIONAL INSTITUTES OF HEALTH	Identification of protein radicals formed in the human neuroglobin-H2O2 re
4:00 pm - 4:20 pm	Victor Sharov	University of Kansas	Oxidation and inactivation of SERCA by peptide and protein peroxides
4:20 pm - 4:40 pm	Se-Ran Yang	University of Rochester Medical Center	Sirtuin regulates oxidant and cigarette smoke induced pro-inflammatory m

DAY 2: FRIDAY, NOVEMBER 17, 2006

SESSION 4			
Nitric Oxide: Biochemistry and Biology			
TIME	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:00 pm - 2:20 pm	Eric Kelley	University of Pittsburgh	Nitrated Oleic Acid (OA-NO2) is a Potent Inhibitor of Xanthine Oxidoreduct
2:20 pm - 2:40 pm	Hao Zhang	Medical College of Wisconsin	The constrasting influence of cysteine and methionine on nitration of neigh
2:40 pm - 3:00 pm	Alireza Mani	Royal Free and University College Medical School	Albumin modulates nitric oxide synthase activity via a caveolin-dependent t
3:00 pm - 3:20 pm	Matias Moller	F. Ciencias, Univ. de la Republica	Low Density Lipoprotein Accelerates the Formation of Nitrogen Dioxide an
3:20 pm - 3:40 pm	Martha Sue Carraway	Duke University Medical Center	NOX4 Mediates Thrombin Signaling in Endothelial Cells
3:40 pm - 4:00 pm	Silvina Bartesaghi	University of the Republic - Uruguay	Tyrosine nitration in hydrophobic environments requires lipid radical-depen
4:00 pm - 4:20 pm	Lindsay Burwell	University of Rochester	Enhancement of Mitochondrial S-nitrosation and Cardioprotection During Is
4:20 pm - 4:40 pm	Geng Liu	NIH	NO-independent signaling by nitrite modulates stress-response genes

SESSION 5			
Lipids, Mediators in Health and Disease			
TIME	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:00 pm - 2:20 pm	Tamas Kriska	Medical College of Wisconsin	Phospholipase action of platelet activating factor acetylhydrolase, but not p
2:20 pm - 2:40 pm	Emily Swindle	NIH	Production of reactive oxygen species by mast cells following Fc[gamma]
2:40 pm - 3:00 pm	Marsha Cole	UAB	Fatty acid transduction of nitric oxide signaling: Inflammation induces the g
3:00 pm - 3:20 pm	Huiyong Yin	Vanderbilt University	Identification of Novel Autooxidation Products of the Omega-3 Fatty Acid Eic
3:20 pm - 3:40 pm	Sergiy Nadochiy	University of Rochester Medical Center	Nitrated lipids stimulate mitochondrial proton leak: implications for ischemic
3:40 pm - 4:00 pm	Ashlee Preston	University of Alabama at Birmingham	The Application of Novel Tagged Lipids to Determine the Mechanisms of P
4:00 pm - 4:20 pm	Sudheer Mantena	University of Alabama at Birmingham	Mitochondrial Dysfunction and Oxidant Production in an Animal Model of N
4:20 pm - 4:40 pm	K Sathishkumar	Southern University	Cholesterol Secoaldehyde, a Cholesterol Oxidation Product, Induces Intrac

SESSION 6			
Mitochondria, Oxygen, & Function			
TIME	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:00 pm - 2:20 pm	Honglian Shi	UNM Health Sciences Center	Ischemia-Mediated Changes in Redox Status in Primary Cultured Neurons
2:20 pm - 2:40 pm	Matthew Picklo	University of North Dakota School of Medicine	Class 5 mitochondrial aldehyde dehydrogenase (ALDH5A) confers cytopro
2:40 pm - 3:00 pm	Kjerstin Owens	University of Iowa	Increases in metabolic oxidative stress in hamster fibroblasts expressing a
3:00 pm - 3:20 pm	Mu Qiao	University of Texas Health Science at San Antonio	Increased Expression of Mitochondrial and Cytosolic Glutathione Reductas
3:20 pm - 3:40 pm	Kristin Nelson	University of Louisville	The Regulatory Subunit Vb of Cytochrome c Oxidase Is Required for Malig
3:40 pm - 4:00 pm	Suwimol Jetawattana	University of Iowa	Redox regulation of HIF-1 alpha by MnSOD via ROS
4:00 pm - 4:20 pm	Rugao Liu	University of North Dakota School of Medicine	Manganese Superoxide Dismutase Protects Mouse Cortical Neurons From
4:20 pm - 4:40 pm	Jeanette Vasquez-Vivar	Medical College of Wisconsin	The Use of t MITO-DEPMPO and MITO-SOX in Superoxide Detection from

DAY 3: SATURDAY, NOVEMBER 18, 2006

SESSION 7			
Peroxidases, Oxidases and Thiols			
	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:00 pm - 2:20 pm	Patrick Halvey	Emory University, NUI Galway	Selective Nuclear Oxidative Stress Oxidizes Glutathione and Inhibits NF-κ
2:20 pm - 2:40 pm	Rui-Ming Liu	UAB	Transforming growth factor beta induces protein thiol oxidative modification
2:40 pm - 3:00 pm	Leonard Velsor	University of Colorado Health Sciences Center, Schol	Lung Extracellular Thiocyanate Levels are Modulated by CFTR and can Ar
3:00 pm - 3:20 pm	Vuokko Kinnula	University of Helsinki	Glutathione-S-Transferase OMEGA-1 In Human Lung and Sputum Super
3:20 pm - 3:40 pm	Julie Andersen	Buck Institute for Age Res	Inducible Elevations in Astrocytic Monoamine Oxidase-B in Adult Mice Res
3:40 pm - 4:00 pm	Viviana Perez	University of Texas Health Science Center at San Anti	Trx2 Haploinsufficiency in Trx2(+/-) Mice Results in Impaired Mitochondrial
4:00 pm - 4:20 pm	Amy Mowbray	Georgia Institute of Technology/Emory University	Peroxiredoxins as Mechanosensitive Antioxidants in a Subcellular-Specific
4:20 pm - 4:40 pm	Irene Kochevar	Harvard Medical School	Nox1-containing NADPH oxidase is the major source of UVA-induced reac
SESSION 8			
Renewal or Death?			
	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:00 pm - 2:20 pm	Sarah Wilkinson	University of Arizona	Mitochondrial Alterations in Apoptosis-Resistant Lymphoma
2:20 pm - 2:40 pm	Georg Wondrak	University of Arizona, College of Pharmacy, and Arizo	Targeting the Redox Achilles Heel of Malignancy: NQO1-activated Phenot
2:40 pm - 3:00 pm	Hanyu Liang	UTHSCSA	Glutathione Peroxidase 4 Regulates Oxidative Stress Induced Apoptosis in
3:00 pm - 3:20 pm	Geetha Hewawasam	University of Kansas	Studies on interactions between anti-apoptotic protein Bcl-2 and Sarco/Enc
3:20 pm - 3:40 pm	Katrin Schröder	Institut für Kardiovaskuläre Physiologie	Nox1 mediates basic fibroblast growth factor-induced smooth muscle cells
3:40 pm - 4:00 pm	Yong Lin	Lovelace Respiratory Research Institute	Sensitization of TNF-induced Lung Cancer Cell Death by Luteolin Through
4:00 pm - 4:20 pm	Disha Dayal	University of Iowa	Hydrogen peroxide governs the level of radiation-induced genomic instabili
4:20 pm - 4:40 pm	Sean Gehen	University of Rochester	The phosphoinositide 3-kinase related kinase hSMG1 initiates checkpoint s
SESSION 9			
Nutrients, Metals, Oxidants, and Health			
	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:00 pm - 2:20 pm	Li-Ping Liang	University of Colorado Health Sciences Center	Seizure-Induced Increase in Mitochondrial chelatable iron
2:20 pm - 2:40 pm	Bernd Moosmann	University of Mainz	The Antioxidant Function of Protein Methionine Explains About the Evolutic
2:40 pm - 3:00 pm	Mark Levy	Oregon State University	Selective Copper Chelation From Zinc-Deficient Versus Holo Copper-Zinc :
3:00 pm - 3:20 pm	Nathan Bryan	The University of Texas Houston Health Science Cent	Alterations in Dietary Nitrite Modulate the Severity of Ischemia-Reperfusio
3:20 pm - 3:40 pm	Chandrashekhar Kamat	Oklahoma Medical Research Foundation	Comparison of alpha- and gamma-tocopherol supplementation effects on c
3:40 pm - 4:00 pm	Catherine Vergely	Faculties of Medicine & Pharmacy	Antioxidant properties of rosuvastatin are associated with an ischemia-repe
4:00 pm - 4:20 pm	Balu Chacko	UAB	Chlorination modulates anti-inflammatory effects of isoflavones via PPAR&
4:20 pm - 4:40 pm	Florian Muller	University of Texas Health Science Center San Antoni	Two Distinct Sites of Superoxide Production within Complex I