

SFRBM 2007 • Oral Presentation Schedule • Washington DC

DAY 1: THURSDAY, NOVEMBER 15, 2007

SESSION 1 FREE RADICAL CHEMISTRY AND BIOCHEMISTRY Chairs: TBD			
TIME	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:30 pm - 2:50 pm	Suchandra Bhattacharjee	NIEHS/NIH	ELECTRON TRANSFER BETWEEN A TYROSYL RADICAL AND A CYST
2:50 pm - 3:10 pm	Graziella Ronsein	Instituto de Química - USP	A mechanistic view on the tryptophan conversion to N-formylkynurenine
3:10 pm - 3:30 pm	Júlio Rebouças	Duke University Medical School	Pure MnTBAP is not a superoxide dismutase mimic in aqueous systems: A
3:30 pm - 3:50 pm	Gregory Giles	The University of Sydney	SRIXE Cellular Imaging Of The Antioxidant Agent Ebselen
3:50 pm - 4:10 pm	Rheal Townner	Oklahoma Medical Research Foundation	In Vivo Detection of DMPO-Adducts using Molecular Targeted MRI
4:10 pm - 4:30 pm	Anson Pierce	UTHSCSA Barshop Institute	Probing the surface of G93A and H46R/H48Q mutant SOD1 protein for exp

SESSION 2 GASEOUS MEDIATORS AND MOLECULAR SWITCHES Chairs: TBD			
TIME	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:30 pm - 2:50 pm	Jo Morrison	University of Alabama at Birmingham	Suspended animation is induced via cytosolically regulated H ₂ O ₂
2:50 pm - 3:10 pm	Young-Nam Cha	INHA University	CO overproduced by upregulated HO-1 in response to nitrosative stress inc
3:10 pm - 3:30 pm	Lei Yu	Northwestern University	Neuronal NOS inhibition prevents cerebral palsy following hypoxia-ischemic
3:30 pm - 3:50 pm	Huiyun Liang	UTHSCSA	Protective effect of PGC-1α on the development of ALS disease
3:50 pm - 4:10 pm	Robert Broyles	Oklahoma Medical Research Foundation	Ferritin Heavy Chain is a Hemoglobin Switching Factor and a Probable Tre.
4:10 pm - 4:30 pm	Disha Dayal	University of Iowa	Evidence of mitochondrial abnormalities in radiation-induced genomically u

SESSION 3 REDOX MODULATION OF MACROMOLECULE FUNCTION Chairs: TBD			
TIME	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:30 pm - 2:50 pm	James Roede	University of Colorado Health Sciences Center	IN VITRO CHARACTERIZATION OF LIPID ALDEHYDE MODIFICATION C
2:50 pm - 3:10 pm	Joshua Brooks	Vanderbilt University	Identification of Highly Reactive Anti-Inflammatory Cyclopentenone Isopros
3:10 pm - 3:30 pm	Mahdi Garelnabi	Ohio State University Medical Center	Dietary supplementation of oxidized linoleic acid lowers triglycerides in mic
3:30 pm - 3:50 pm	Thomas Jönsson	Wake Forest University School of Medicine	Structure of the sulfiredoxin-peroxiredoxin complex reveals basis for cystei
3:50 pm - 4:10 pm	Yi Wang	University of Washington	Myeloperoxidase Impairs Inhibitory Activity of TIMP-1 by Modifying N-termi
4:10 pm - 4:30 pm	Georg Wondrak	University of Arizona	Identification of Small Molecule Nrf2-Activators Targeting Skin Cell Photo-o

DAY 2: FRIDAY, NOVEMBER 16, 2007

SESSION 4 NITRIC OXIDE IN PHYSIOLOGY AND MEDICINE Chairs: TBD			
TIME	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:30 pm - 2:50 pm	Danielle Duma	NIEHS/NIH	NOS1-derived nitric oxide as a signaling effector for the initiation of systemi
2:50 pm - 3:10 pm	Denise Fernandes	University of Sao Paulo	Protein Disulfide Isomerase is involved in the redox regulation of nitric oxid
3:10 pm - 3:30 pm	Homero Rubbo	Universidad de la República	Nitroarachidonic acid plays a beneficial role in LDLR ^{-/-} mice model of ather
3:30 pm - 3:50 pm	Monisha Dhiman	University of Texas Medical Branch	DEVELOPMENT OF NITROSYL-PLASMA PROTEOME IN CHAGAS DISE
3:50 pm - 4:10 pm	Mauro Tiso	Cleveland Clinic	A common pathway behind the mechanism of activation of constitutive Nitri
4:10 pm - 4:30 pm	Sergiy Nadtochiy	University of Rochester	Post-translation modification of mitochondrial proteins by nitro-alkenes as a

SESSION 5 SOURCES AND TARGETS OF REACTIVE SPECIES Chairs: TBD			
TIME	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:30 pm - 2:50 pm	Anna Dikalova	Emory University School of Medicine	Distinct Roles of Nox1 and Nox4 in Basal and Angiotensin II-Stimulated Su
2:50 pm - 3:10 pm	Mark Williams	University of Maryland School of Medicine	Expression and Function of the Non-phagocytic NADPH Oxidase, Duox1 in
3:10 pm - 3:30 pm	Sujung Jun	University of North Texas Health Science Center	Allele-specific effects on extracellular superoxide dismutase expression: a r
3:30 pm - 3:50 pm	Christopher Pattillo	LSU Health Sciences Center	ICAM-1 Cytoplasmic Tail Regulates Endothelial Cell Redox Status Through
3:50 pm - 4:10 pm	Rhykka Connelly	University of Texas Medical Branch	Mechanisms of MRSA-induced alveolar epithelial cell death.
4:10 pm - 4:30 pm	Maurice Hinson	Children's Hospital of Philadelphia	Role of NF-κB subunit p50 in postnatal lung development

SESSION 6 SIGNAL TRANSDUCTION AND GENE EXPRESSION IN REDOX BIOLOGY Chairs: TBD			
TIME	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:30 pm - 2:50 pm	Aaron Przybysz	Vanderbilt University	Ageing inhibits the adaptive response of <i>Caenorhabditis elegans</i> to 1
2:50 pm - 3:10 pm	Katrin Schröder	Universität Frankfurt	Nox4 acts as a switch between differentiation and proliferation in preadipoc
3:10 pm - 3:30 pm	Kristi Muldoon Jacobs	National Cancer Institute, NIH	Superoxide levels and mitochondrial function are regulated by SIRT3
3:30 pm - 3:50 pm	Marcienne Wright	University of Alabama at Birmingham	Transcriptional Regulation of Heme Oxygenase-1 by Nitrated Fatty Acids O
3:50 pm - 4:10 pm	Martha Carraway	Duke University Medical Center	Erythropoietin Promotes Cardiac Mitochondrial Biogenesis Through Akt Act
4:10 pm - 4:30 pm	Nicolas Clavreul	Servier Research Institute	Simvastatin causes oxidant-mediated activation of unfarnesylated p21ras, i

DAY 3: SATURDAY, NOVEMBER 17, 2007

SESSION 7 INFLAMMATORY OXIDATIVE SIGNALING AND INJURY

Chairs: TBD

	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:30 pm - 2:50 pm	Ana Moretti	University of São Paulo	Metalloproteinase-9 is secreted in an S-nitrosated, inactive form
2:50 pm - 3:10 pm	Crystal Reynolds	Duke University	Nitric oxide and Toll-like receptor 4 are required for cardiac mitochondrial bi
3:10 pm - 3:30 pm	Feng Wu	University at Buffalo	Endogenous peroxynitrite-dependent activation of protein phosphatase type
3:30 pm - 3:50 pm	Michelle Manni	University of Pittsburgh	The Role of Leukocyte-derived EC-SOD in Pulmonary Inflammation
3:50 pm - 4:10 pm	Olaf Sommer	University of Freiberg	Response of Central Nervous Formated ROS and IL6 to Endotoxin release
4:10 pm - 4:30 pm	Marsha Cole	University of Pittsburgh	Nitro-Fatty Acids Induce Anti-Inflammatory Therapeutic Effects in a Murine

SESSION 8 OXIDANTS AND ANTIOXIDANTS IN HEALTH AND DISEASE

Chairs: TBD

	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:30 pm - 2:50 pm	Chandrashekhar Kamat	OMRF	Comparison of Long-Term Alpha- and Gamma-Tocopherol Supplementatio
2:50 pm - 3:10 pm	Elizabeth Brookins-Danz	Albany Medical College	Resveratrol Inhibits Doxorubicin Mediated Oxidative Damage Through Cha
3:10 pm - 3:30 pm	Hongbin Tu	NIH	Ascorbate transporter SLC23A1 is essential for vitamin C renal reabsorptio
3:30 pm - 3:50 pm	Sanjoy Ghosh	Child and Family Research Institute	Dietary lipids during early development program the oxidative stress respor
3:50 pm - 4:10 pm	Cheryl Fattman	University of Pittsburgh	Extracellular Superoxide Dismutase Allele-specific Effects Influence the Se
4:10 pm - 4:30 pm	David Krzywanski	University of Alabama at Birmingham	Extracellular GSH Exacerbates ^{&[middot]}NO₂-M

SESSION 9 CANCER, CELL PROLIFERATION AND DEATH

Chairs: TBD

	PRESENTER	AFFILIATION	ABSTRACT TITLE
2:30 pm - 2:50 pm	Christopher Mahaffey	University California, Merced	Alteration of the Expression of Multidrug Resistance Protein Family Membe
2:50 pm - 3:10 pm	Dunyaporn Trachootham	MD Anderson Cancer Center	Novel Role of Glutathione in Chronic Lymphocytic Leukemia Cell Survival a
3:10 pm - 3:30 pm	Melissa Tech	University of Iowa	EcSOD Increases the Anti-tumor Efficacy of Heparanase Inhibitors in Breas
3:30 pm - 3:50 pm	Michael Hitchler	University of Iowa	An altered epigenetic landscape represses SOD2 expression in human bre
3:50 pm - 4:10 pm	Nadine Hempel	Albany Medical College	Regulation of Tumor Cell Migration by Mitochondrial Superoxide Dismutase
4:10 pm - 4:30 pm	Ehab Sarsour	University of Iowa	Cyclin B1 coordinates the cross-talk between nuclear and mitochondrial fur