

# Program Agenda

## Sunday, October 12, 2008

6:00 – 8:00 pm SEPS Reception  
Aqua Terrace– 3rd floor Marriott Hotel

## Monday, October 13, 2008

8:00 – 8:30 am Continental Breakfast

8:30 – 8:40 am **Welcome**  
-Dr. Shan Ping Yu

### **Symposium on Mitochondrial Dysfunction in Pathogenesis**

8:40 – 9:20 am ***Cytoprotection and Mitochondrial S-nitrosation in Cardiac Ischemia-reperfusion Injury***  
-Paul Brookes, PhD, University of Rochester Medical Center

9:20 – 10:00 am ***Mitochondrial Toxicity Testing in Drug Development***  
Yvonne Will, PhD, Pfizer R&D Groton CT

10:00 – 10:30 am BREAK

10:30 – 11:10 am ***Mitochondria-Targeted Antioxidants and Probe Molecules***  
Michael Murphy, PhD, Medical Research Council– Human Nutrition Unit, Cambridge

11:15 – 11:45 am ***Mitochondrial Permeabilization in Cell Death, Mitophagy and Control of Metabolism***  
John Lemasters, MD, PhD, Medical University of South Carolina

11:45 – 12:15pm ***Mitochondria, Ceramide and Cell Death***  
Lina Obeid, MD, Medical University of South Carolina

12:15 – 1:30 pm Lunch

#### Platform Session I – Presentations by Graduate Students, Postdoctoral Fellows and Faculty

1:30 – 1:50 pm **Cold Preservation Induces Renal Injury that Involves Mitochondrial Oxidative Stress**  
Lee Ann MacMillan-Crow, PhD, University of Arkansas

1:50-2:10 pm **ER Ca<sup>2+</sup> Signaling and Mitochondrial CYT.C Release in Astrocytes Following *In Vitro* Ischemia**  
Dandan Sun, PhD, University of Wisconsin, Madison, WI

2:10-2:30 pm **Mechanisms Underlying Lysosome-Targeted PDT Damage in Cancer Cells**  
Anna-Liisa Nieminen, PhD, Medical University of South Carolina, Charleston, SC

2:30 – 3:30 pm **Poster Presentations**

#### Platform Session II-Presentations by Graduate Students, Postdoctoral Fellows and Faculty

3:30– 3:45 pm **Modulating Mitochondrial Base Excision Repair to Alter Cell Cycle Progression**  
Christopher Koczor, PhD, University of South Alabama

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- 3:45– 4:00pm **Modulation of the F1F0 ATPase in Cardiac Myocytes: Evidence for Opposing Effects of Individual Protein Kinase C Isozymes**  
Tiffany Nguyen, Medical College of Georgia
- 4:00– 4:15 pm **Sphingosine Kinase Inhibitors Inhibit NF-kappa B Signaling in Chemoresistant Breast Cancer Cells**  
Jim Antoon, Tulane University, New Orleans, LA
- 4:15-4:30 pm **Low Dose Ethanol Decreases Human Embryonic Stem Cell Expression of Sonic Hedge Hog**  
Rodney Nash, PhD, Emory University, Atlanta, GA
- 4:30-4:45 pm **Potential Role of M-Channels in Neuronal Differentiation**  
Xin Zhou, Medical University of South Carolina, Charleston, SC
- 4:45-5:00pm **Growth Hormone Cross-Talk Down-Regulates Multiple Functional Pathways In Sexually Dimorphic Submandibular Salivary Glands**  
Alrena Lightbourn, Florida A&M University, Tallahassee, FL
- 6:00 – 8:30 pm **Banquet**  
***Sphingosine Kinase Inhibitors with Anti-Cancer and Anti-Inflammatory Activity***  
Keynote speaker  
Charles Smith, PhD, Medical University of South Carolina

## Tuesday, October 14

- 8:00 – 8:30 Continental Breakfast
- 8:30 – 8:40 **Welcome**

### **Symposium on Extracellular Matrix Remodeling and Tissue Regeneration**

- 8:40 – 9:10 am ***SPARC, A Modulator of Extracellular Matrix Remodeling***  
Amy Bradshaw, PhD, Medical University of South Carolina
- 9:10 – 9:40 am ***Differential Matrix Metalloproteinase Proteomic Profiling in Patients at Risk for Heart Failure: Diagnostic and Prognostic Implications for Personalized Medicine***  
Francis Spinale, MD, PhD, Medical University of South Carolina
- 9:40 – 10:20 am ***Matrix Elasticity and Stem Cell Lineage***  
Dennis E. Discher, PhD, University of Pennsylvania
- 10:20-10:50 Break
- 10:50 – 11:20 am ***Renal Cell Repair and Regeneration: It's All Local***  
Rick Schnellmann, PhD, Medical University of South Carolina
- 11:20 – 11:50 am ***The ATP-binding Cassette Transporter-2 (ABCA2) a Key Mediator of Lipid Metabolism in Health and Disease***  
Warren Davis, PhD, Medical University of South Carolina
- 11:50 – 12:30 pm ***Astrocytic Stem Cells During Brain Development, Injury and Cancer***  
Dennis A. Steindler, PhD, University of Florida

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12:30 – 1:00 pm      **Stem Cell Transplantation Therapy for CNS and PNS Disorders**  
Shan Ping Yu, MD, PhD, Medical University of South Carolina & Emory University

1:00 – 2:00              Lunch

2:00 – 3:00              **Poster presentations**

Platform presentations III – Presentations by Graduate Students and Postdoctoral fellows

3:00-3:15pm            **Chronic Morphine Induces Downregulation of EGFR and SRC in the Human**  
Rose Prenus, Florida A&M University, Tallahassee, FL

3:15-3:30pm            **Inhibition of Context-Induced Lever Response to Nicotine in Rats by the Use Dependent, Nicotinic Receptor Antagonist BTMPS**  
Brandon Hall, Medical College of Georgia, Augusta, GA

3:30-3:45 pm           **Neurotoxic Effects of Methamphetamine**  
Bessy Thrash, Auburn University, Auburn, AL

3:45- 4:00 pm           **Characterization of a Mammalian Receptor Associated with Voltage-Sensitive Sodium Channels Using Brevenal Produced by *Karenia Brevis***  
Elena Gold, University of North Carolina, Wilmington, NC

4:00-4:15 pm           **Characterization of De Novo Bladder Regeneration in an *In Vivo* Rodent Model**  
David Burmeister, Wake Forest University School of Medicine, Winston Salem, NC

4:15-4:30 pm           **Endothelium and Nos- Independent Estrogen Relaxation of Rat Mesenteric Resistance Arteries is Reduced in Postpartum Rats**  
Crista Royal, Medical College of Georgia, Augusta, GA

4:30 – 4:45              Acknowledgements and Awards

4:45pm                   Meeting Adjourned

5:00-5:30 pm           SEPS 2009 Business Meeting