

CENTER FOR MOLECULAR COMMUNICATION AND SIGNALING

REDOX BIOLOGY RETREAT

Wednesday May 28th, 2014

TIME: 1:30 – 5:00 PM

PLACE: BioTech Place Auditorium
Wine and cheese reception 5:00-6:00

PROGRAM

1:30-2:00 **Snezana Petrovic**, MD, PhD, FASN; Department of Physiology & Pharmacology
Metabolic Acid Load and Oxidative Stress in the Kidney: Functional Implications in Health, Disease, and Aging

2:00-2:30 **Samir Patel** and **Allison Choi**, Baker/Ruskinn Technologies
The Research Need and Technologies Available for Hypoxic Cell Culture

2:30-2:45 **Dan Wu**, PhD; Postdoctoral Fellow in Xiaobo Zhou's group
Systematically Studying the Interaction of Multiple Myeloma and Osteoclast under Hypoxia

2:45 – 3:00 **Zhengrui Miao**, Graduate Student, Bruce King's group
New Approaches for the Biological Detection of Nitroxyl (HNO)

3:00-3:15 **COFFEE BREAK (and snacks)**

3:15-3:30 **Greg Maloney**, PhD; Postdoctoral Fellow in Gloria Muday's group
The Role of Tomato Flavonoid Antioxidants in Modulating ROS Accumulation

3:30 - 3:45 **Andrea Belanger**; Graduate Student in Dany Kim Shapiro's group
Effects of SNP on deformability of deoxygenated-induced RBC dehydration in sRBC

3:45 - 4:00 **Zhong Fang**; Graduate Student in Patricia DosSantos's group
Protective Role of Bacillithiol Against Oxidative Stress in Bacillus subtilis

4:00 - 4:15 **Jeremiah Keyes**; Graduate Student in Leslie Poole's group
Modulation of Erk Activity by Reversible Cysteine Modification

4:15 - 4:30 **Chris Mauney**; Graduate Student in Tom Hollis's group
Structural and Functional Analysis of the dNTP triphosphohydrolase SAMHD1

4:30 - 4:45 **Jesalyn Bolduc**; Graduate Student in Todd Lowther's group
Determining the Molecular Basis for Differential Hyperoxidation Sensitivity in Peroxiredoxin 1 & 2

4:45 - 5:00 **Jade Mims**; Graduate Student in Cristina Furdui's group
Integration of Redox-Regulated Signaling and Metabolism in Head and Neck Cancer

5:00 - 6:00 Discussion over wine, beer, and snacks