

# Center for Molecular Communication and Signaling

Fall Research Retreat | Friday, October 16th, 2015 | Bridger Field House, WFU

## Posters

1. *Analysis of DNA Methylation and Gene Expression in Radiation Resistant Head and Neck Tumors.* Xiaofei Chen, Cristina Furdui, Internal Medicine
2. *Anatomical and Functional Dissection of Adipokinetic Hormone Signaling in Drosophila Melanogaster.* Rebecca Perry, Erik Johnson, Biology
3. *Connections between Circadian and Metabolic Hormones.* Jason Braco, Erik Johnson, Biology
4. *Design and Synthesis of Novel PI3K Inhibitors Targeting Prostate Cancer.* Jason Guo, Mark Welker, Chemistry
5. *Determining the Molecular Basis for Hyperoxidation Variability between Peroxiredoxins 1&2.* Jesalyn Bolduc, W. Todd Lowther, Biochemistry
6. *Development of Enhanced Tissue Adhesives by Chemically Modifying Hyaluronic Acid with a Catechol Amine.* KyungMin Yoo, Mark Welker, Chemistry
7. *Dissecting the Role of elf1 in Maintaining Genome Stability.* Alena Drayton, Ke Zhang, Biology
8. *Examining the Efficiency of N-Mustard Analogs of S-Adenosyl-L-methionine with DNA Methyltransferase M.SssI.* Nichanun Sirasunthorn, Lindsay R. Comstock-Ferguson, Chemistry
9. *Expanding the Roles of tRNA Thiolation in Bacteria: Potential Involvement of 2-thiouridine tRNA in Signaling Bacterial Sulfur Metabolism.* Katherine Black, Patricia C. Dos Santos, Chemistry
10. *Exploring Protein Arginine Methyltransferase Events Using Novel N-mustard Analogs of S-Adenosyl-L-methionine.* Sarah Bergman, Lindsay Comstock, Chemistry
11. *Flavonol Regulation of Tomato Root Architecture During iron Deficiency.* Sheena Gayomba, Gloria Muday, Biology
12. *Immune Gene Signatures and Tumor Intrinsic Markers Delineate Novel Immunogenic Subtypes of Breast Cancer.* Lance Miller, Cancer Biology
13. *Investigation of Redox Control in Chlamydia Infection by Novel Chemical Tools and Mass Spectrometry.* Rosine Dushime, Dr. Allen Tsang, Physiology and Pharmacology
14. *Modulation of Erk Activity by Reversible Cysteine Modification.* Jeremiah Keyes, Leslie Poole, Biochemistry
15. *Reactive Oxygen Species (ROS) and Flavonols Modulate the Root Gravitropic Response.* Elizabeth Sarkel, Gloria Muday, Biology

16. *Redox Regulation of Glycolysis in Septic Monocytes*. David Long, Cash McCall, Molecular Medicine
17. *Relationship of Metabolic Health, Microbial Translocation and Physical Function in Age Diverse Vervet Monkeys*. Kylie Kavanagh, Pathology
18. *RGS2 Modulation of D2R Trafficking in Neuroblastoma Cells*. Deborah Luessen, Rong Chen, Integrated Physiology and Pharmacology
19. *Role of Reactive Oxygen Species and Lipid Rafts in Head and Neck Cancer Treatment*. Jade Mims, Cristina M. Furdui, Molecular Medicine and Translational Science
20. *Rsf1 Regulates Meiosis-Specific Gene Expression in Schizosaccharomyces pombe*. Bahjat Fadi Marayati, Ke Zhang, Department of Biology
21. *Serotonin Receptor 2C Agonists Lorcaserin and CP-809101 Block Cue-Induced Reinstatement of Sugar-Seeking Behavior in Rats*. Everett Altherr, Wayne Pratt, Psychology
22. *Stable Overexpression of Cannabinoid Receptors in SHSY5Y Neuroblastoma*. Erica Lyons, Allyn Howlett, MMTS
23. *Systemic Delivery of Silver Nanoparticles and Targeting of the Folate Receptor Alpha for the Treatment of Triple-negative breast cancer*. Jessica Swanner, Ravi Singh, Cancer Biology
24. *The Detection of Chemical Irritants by the Earthworm, Lumbricus Terrestris: Electrophysiology and Immunohistochemistry*. Albert Kim, Wayne Silver, Biology
25. *Uncovering Auxin Transcriptional Networks Controlling Arabidopsis Lateral Root Development*. Joëlle Mühlemann Vidi, Gloria Muday, Department of Biology
26. *Using Time-Course Transcriptome Data to Elucidate Ethylene Receptor and TF Networks Controlling Arabidopsis Root Development*. Alexandria Harkey, Gloria Muday, Biology / Molecular Genetics and Genomics
27. *X-ray Structure Determination of the Bordetella Pertussis Transcription Factor BpsR in Complex with DNA*. Shilpa Jayarajan, Thomas Hollis, Chemistry