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 Variablity 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.SsI. 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


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


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


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