

Center for Molecular Signaling
Fall Retreat, Thursday October 12, 2017; Wake Downtown

8:30 Continental Breakfast

9:00 Welcome from **Gloria Muday and Rebecca Alexander**, CMCS Director and Co-Director

9:10-9:35 Ann Tallant, Cardiovascular Sciences Center

Muscadine Grapes: Beyond Jellies, Juice and Wine

9:35-9:50 Joelle Muhlemann Vidi, Muday lab, Biology

Flavonols Act as Antioxidants during Pollen Tube Growth to Enhance Thermotolerance

9:50-10:05 Xiaofei Chen, Furdui lab, Internal Medicine

Protein Sulfenylation Reagents: From Research Tools to Cancer Diagnostics & Therapeutics

10:05-10:30 John Lukesh, Chemistry

Synthetic Probes for the Detection of Redox Active Analytes in Living Cells

10:30-10:50 Coffee Break

10:50-11:05 Jake Saunders, Johnson and Silver labs, Biology

How Do Earth Worms Taste and Other Puns about the Chemical Senses of Annelids

11:05-11:55 KEYNOTE SPEAKER

Dr. Mark Peifer, University of North Carolina at Chapel Hill, Department of Biology

Regulating Wnt Signaling During Development and Oncogenesis

12:00-12:45 LUNCH: FIRST FLOOR LOBBY AND COURTYARD

12:50-1:05 Amanda Smelser, Vidi lab, Cancer Biology

Measuring the Effects of Mechanosignaling on the Genome

1:05-1:30 Ke Zhang, Biology

Elf1 Promotes Genome Stability in Fission Yeast

1:30-1:45 Canna Zheng, Dos Santos lab, Chemistry, CMS Graduate Fellow

Characterization and Functional Studies of *Bacillus subtilis* Thioredoxin

1:45-2:10 Andrew Wommack, Chemistry, High Point University

Installation of a Disulfide Bioisostere with Photoredox Catalysis to Probe Biology Function

2:10-2:25 Coffee break

2:25-2:50 Anthony Molina, Internal Medicine

Mitochondrial Bioenergetics and Personalized Healthcare for Older Adults

2:50-3:05 Yan Nie, Zhu lab, Molecular Medicine

SLC37A2 is a novel regulator of macrophage glucose metabolism and inflammation

3:05-3:20 Anthony Postiglione, Newman Lab, Biology NC A&T

Impact of Redox Modification on Global ERK2 Substrate Selection

3:20-5:00 Poster Session and wine and cheese reception