

Center for Molecular Signaling
Fall Research Retreat
Thursday October 10, 2019; Wake Downtown

8:30 Continental Breakfast

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

9:05-9:25 Patricia Dos Santos

Redox reactions regulating the biosynthesis of Fe-S clusters in bacteria

9:30-9:42 Monica Rohde, Cancer Biology (Redox T32 Fellow, Singh lab)

The treatment of EGFR-TKI resistant lung cancer using silver nanoparticles.

9:45-10:25 KEYNOTE SPEAKER

Amit Reddi, Georgia Tech

The Dual Roles of Cu/Zn Superoxide Dismutase1 in Antioxidant Defense and Redox Signaling

10:30-10:50 Coffee Break

10:50-11:20 Todd Lowther, Biochemistry and **Allyn Howlett**, Physiology and Pharmacology

Cannabinoid Receptor interacting Protein 1a: Pathway to Discover Function Knowing Structure

11:25-11:37 Owen Sullivan, Biology (CMS fellow in McDonald lab)

Activation of the Rotavirus Polymerase by the Core Shell Protein

11:40-11:52 Elmira Alipour, Physics (CMS fellow in Kim-Shapiro lab)

Effects of Nitrite and Far-Red Light in Blood

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

12:50-1:30 KEYNOTE SPEAKER

Ross Sozzani, NC State University

Modeling of multicellular interactions in stem cell regulation

1:35-2:05 Andria Harkey, Biology (Muday laboratory), **James Norris**, Mathematics and Statistics

Revealing gene regulatory networks through meta-analysis and time series adjusted modeling

2:10-2:30 Coffee Break

2:30- 2:50 Minghan Chen, new faculty member in Computer Science

Stochastic modeling and simulation of multiscale biological systems

2:55- 3:07 David de la Cerda, Biology (CMS fellow in Pease lab and Zhang lab collaborator)

Differential RNA Seq in the absence of functional Dhp1 and Lsd1/2 in S. pombe

3:15-5:00 Poster Session and wine and cheese reception (Room 4502)