

UC 310 ORAL PRESENTATIONS

UNDERGRADUATE RESEARCH AND CREATIVE ACHIEVEMENT DAY

APRIL 27, 2016 • URCAD.UMBC.EDU • #URCAD

10 a.m.

Student: **Lilian Anosike**
Mentor: Dr. Michelle Starz-Gaiano
"Effects of a Chromatin Remodeler on Migratory Cell Fate Determination"
Biological Sciences

10:15 a.m.

Student: **Austin Gabel**
Mentors: Dr. Rachel Brewster, Dr. Young-Sam Lee
"Understanding Induction of Suspended Animation in Zebrafish"
Biological Sciences

10:30 a.m.

Student: **Jordyn Schroeder**
Mentors: Dr. Ovijit Chaudhuri, Ms. Katrina Wisdom
"Regulation of Radioresistance of Breast Cancer Cells by Tissue Composition and Mechanics"
Mechanical Engineering

10:45 a.m.

Student: **James Loy**
Mentor: Dr. Matthew Pelton
"Charge Transfer from Single Semiconductor Nanocrystals to Single Molecules"
Physics

11 a.m.

Student: **Austin Maduka**
Mentors: Dr. Natasha Zachara, Dr. Kamau Fahie, Ms. Jennifer Groves
"Assessing the Stress-Dependent Role of AMPK on OGT and OGA Activity and Localization"
Biochemistry and Molecular Biology

11:15 a.m.

Student: **Da'Kuawn Johnson**
Mentors: Dr. Christine Jacobs-Wagner, Dr. Rodrigo Arias Cartin
"Characterization of the Bacteriophage CR30 Homolog (gp140) of HarP"
Biochemistry and Molecular Biology

11:30 a.m.

Student: **Jason Hughes**
Mentor: Dr. Yanhui Liu
"Changes in Thin Film Metallic Glass Microstructures upon Annealing in the Supercooled Liquid Region"
Chemical, Biochemical, and Environmental Engineering

11:45 a.m.

Student: **Elise Adamson**
Mentor: Dr. Russell Vance
"Recognition of Bacterial Ligands by the NAIP Immune Receptor"
Biochemistry and Molecular Biology

1 p.m.

Student: **Caitlyn Maczka**
Mentor: Dr. David Eisenmann
"Characterization of an Embryonic Skin Enhancer Element from the *C. elegans pax-3* gene"
Biological Sciences

1:15 p.m.

Student: **Andreas Seas**
Mentors: Dr. Alexey Kamenskiy, Dr. Jason MacTarggart
"Effects of Demographics and Risk Factors on the Elastic Strain Energy of Human Superficial Femoral Arteries"
Chemical, Biochemical, and Environmental Engineering

1:30 p.m.

Student: **Jack Slettebak**
Mentor: Dr. Matthias Gobbert
"Using the HPCG Benchmark to Analyze Performance of the Intel Xeon Phi"
Mathematics and Statistics

2 p.m.

Student: **Shelbi Tippet**
Mentor: Dr. Ruben Delgado
"Remote Sensing Monitoring of Canadian Wildfire Smoke and its Impact on Baltimore Air Quality"
Mechanical Engineering

2:15 p.m.

Students: **Seung Ho Choi, Hannah Carter**
Mentors: Dr. Michael F. Summers, Mr. Joshua Brown
"Probing the Structure of the HIV-1 5'-L Monomeric Conformation and Start Site Heterogeneity by NMR Spectroscopy"
Biochemistry and Molecular Biology

3 p.m.

Students: **Mashhood Wani, Natalie Steenrod, Poornima Patel**
Mentor: Dr. Minjoung Kyoung
"Sustain-O-Scope: Simple Compound Light Microscope"
Chemistry and Biochemistry

3:15 p.m.

Student: **Michael Wolfe**
Mentor: Dr. Jason Kestner
"Simulating Entanglement Dynamics of Singlet-Triplet Qubits Coupled to a Classical Transmission Line Resonator"
Physics

3:30 p.m.

Student: **Justine Lottermoser**
Mentor: Dr. Ryan White
"The First Electrochemical, Aptamer-Based Sensor on a Carbon Surface"
Biochemistry and Molecular Biology

