



Oral Presentations

University Center, Room 312

Session I

Faculty Moderator: Muruhan Rathinam, Mathematics

9:15 – 9:30 a.m.	Michael Herder “Violin Performance Studies” Professor Airi Yoshioka, Mentor	Music
9:30 – 9:45 a.m.	Shilpa Gadwal “Effects of High-level Troleandomycin Resistance in the 23S Ribosomal RNA of <i>D. radiodurans</i> on Ribosome Function” Professor Janice Zengel, Mentor	Biological Sciences
9:45 – 10:00 a.m.	Julie Fields “Exploring Patient Characteristics in Treatment Decision-making among Black and White Physicians in the United States” Vence Bonham, Mentor	Biological Sciences
10:00 – 10:15 a.m.	Yuriy Sverchkov “Modeling Flagellar Growth as a Stochastic Process” Professor Muruhan Rathinam, Mentor	Mathematics
10:15 – 10:30 a.m.	Tamika John “Evaluating the Effects of Regulatory T-Cell Epitopes on B-cell MHC Class II Presentation” Professor David Scott, Mentor	Biological Sciences

Session II

Faculty Moderator: Tamra Mendelson, Biological Sciences

10:30 – 10:45 a.m.	Olubukola Ojewoye “Flexibility - Not Just for Gumby Anymore” Professor Katherine Seley-Radtke, Mentor	Chemistry
10:45 – 11:00 a.m.	Uzoma Iheagwara “The Intracellular Trafficking Pathway of MHC II Molecules is Altered in the Absence of Invariant Chain” Professor Suzanne Ostrand-Rosenberg, Mentor	Biological Sciences



Oral Presentations

- 11:00 – 11:15 a.m.** **Benyam Kinde** **Biochemistry and Molecular Biology**
“Toward the 3D Structure of the Core Encapsidation
Signal, a Critical Component for Replication of a
Model Retrovirus”
Professor Michael Summers, Mentor
- 11:15 – 11:30 a.m.** **Alexandria Scott** **Biological Sciences**
“Converting Phylogenetic Differences between
Species into Time”
Professor Tamra Mendelson, Mentor
- 11:30 – 11:45 a.m.** **Shayla Shorter** **Biological Sciences**
“How Does TRAIL Affect T-Cell Function?”
Professor Violeta Rus, Mentor

Session III

Faculty Moderator: **Marc Zupan, Mechanical Engineering**

- 1:30 – 1:45 p.m.** **Joshua Betz** **Psychology**
“Backpropagation Analysis of Silent Cerebrovascular
Disease and Cognitive Function in a Community-
Dwelling Adult Sample”
Professor Shari Waldstein, Mentor
Professor Tülay Adali, Mentor
- 1:45 – 2:00 p.m.** **Devin Burns** **Mechanical Engineering**
“Mechanical Properties of Electroformed Fused
Deposition Modeled-Copper-Nickel Hybrid Materials”
Professor Marc Zupan, Mentor
- 2:00 – 2:15 p.m.** **Brandon Johnson** **Mechanical Engineering**
“Improving Mechanical Properties of PMMA Bone
Cement with Nano and Micro Particles”
Professor Tim Topoleski, Mentor
- 2:15 – 2:30 p.m.** **Anna An** **Music**
“Adventure in Learning the Language of Music”
Professor Airi Yoshioka, Mentor