

**Oral Presentations: PRISM, 9:00AM-12:30PM, Ruffner 116**  
**Perspectives on Research in Science and Mathematics**

- 9:00AM – Brianna LaFratta (Faculty Mentor: Dr. Maxwell Hennings), “An Analysis of Neurogenesis in a Mouse Model of Chemotherapy-Related Cognitive Impairment”
- 9:15AM – Joshua Walker (Faculty Mentor: Dr. Benjamin Topham), “Chemical control of single molecule electronics”
- 9:30AM – Meghan Hall (Faculty Mentor: Dr. Erin Shanle), “Investigating the effects of cancer mutations on the activity of p300”
- 9:45AM – Caitlin Harris (Faculty Mentor: Dr. Erin Shanle), “Investigating the effects of cancer mutations on the MRN complex in yeast”
- 10:00AM – Catherine Swinsky (Faculty Mentor: Dr. Brandon Jackson), “Shake a tail feather: finding the function of bird tails in slow flight”
- 10:15AM – Justin Moore (Faculty Mentor: Dr. Julian Dymacek), “Extended Applications of Distributed Non-Negative Matrix Factorization”
- 10:30AM - Break
- 10:45AM – Corri Calandra (Faculty Mentor: Dr. Jonathan White), “Synthesis of a cancer-targeting, choline- appended Pt anticancer therapeutic and characterization of its DNA target binding”
- 11:00AM – Brady Knight (Faculty Mentor: Dr. Thomas Wears), “The Geometry of Curves in Surfaces in 3-dimensional Lie Groups”
- 11:15AM – Sarah Elsagr (Faculty Mentor: Dr. Sarah Porter), “Spectroscopic and Chemometric Analysis of Petroleum Products for Forensic, Environmental, and Industrial Applications”
- 11:30AM – Alexis Wayland (Faculty Mentor: Dr. Troy Purdom), “Hyaluronic Acid Expression and Overtraining”
- 11:45AM – Charlotte Pfamatter (Faculty Mentor: Dr. Kathy Gee), “Evaluating Control and Mitigation Techniques for Mosquitoes in Rainwater Harvesting Systems”
- 12:00PM – Curran Atkinson (Faculty Mentor: Dr. Kathy Gee), “Best Treatment for Mosquito Larvae in Rainwater Harvesting Systems”