The Student Research Symposium is an annual event hosted by the Office of Research and Graduate Studies that takes place as a part of Utah State University’s Research Week. This year the SRS was held on April 13, 2017, in the Merrill-Cazier Library from 9 a.m. - 5 p.m. Students of both Undergraduate and Graduate levels were provided the opportunity to showcase their research findings with peers, faculty judges, and the campus community as a whole.

This year the department of Biological Engineering had 17 different individuals and student groups present their research. We invite you to see for yourself what they have accomplished.

Undergraduate Student Participants

- Zane Bellows, Adam Talbot, Greg Jensen, James Gayer
- Zinc Oxide Nano-particle Structure Relationships
  Cameron Zabriskie
- Identifying Changes in C2C12 Cells from Radiation and Zero Gravity Effects using Raman Spectroscopy
  Matt Clegg
- In vitro Antioxidant Treatment Model for Oxidative Stress in Simulated Microgravity
  Richard Decker
- Putting an End to Endotoxins
  Nathan Hebert
- Novel Methods to Produce Large Recombinant Spider Silk Proteins
  Chase Paterson, Harsh Singh
- Growing Retinal Pigment Epithelial Cells on a Recombinant Spider Silk Protein Membrane
  Bethany A. Jensen, Kyle M. Hillman

View Photo Gallery

Graduate Student Participants

- Harvest and Disposal of Hazardous Algal Blooms
  Han Zhang
  Rapid prototyping of paper-based micro-device using wax and material printer for low-cost portable glucose assay
  Yessica Castro
  Characterization of invasive Eichhornia sp from Ozama-Isabella River for biogas and fertilizer production through Anaerobic digestion
  Alan Hodges
  Novel use for Cement Production Byproduct as Chemical Coagulant and Flocculant
  Zachary Fica
  Dairy Wastewater Remediation Using Algal Biofilm
  Michelle Bonebrake
  Characterization and isolation of biofilm components from rhizosphere microbes
  Lori Caldwell
  Characterization of the Effects of High-dose Radiation on Skeletal Muscle
  Kaitlyn Anderson
  Effects of Wettability and Surface Roughness of Hollow Fiber Membranes on Bacterial Adhesion
  Cynthia Hanson
  Proposed DEP-Raman device for simultaneous trapping and identification of bacteria
  Charles Harding, Timothy Taylor, Jon Takemoto, Elizabeth Vargis
  Comparison of alginate and microcarriers for in vitro modeling of microgravity-induced muscle atrophy
  Wei Zhang
  Smartphone-based optode sensor for calcium and magnesium continuous detection in water