2018 BME REU Final Presentation Posters

Friday, August 3
11:00 am - 2:00 pm
Higgins House Great Hall and Library
Refreshments provided

"Scaffold Development from *Taxus* Plant Cell Culture for Targeted Drug Delivery"
Dasia Aldarondo, *Graduate mentor: Michelle McKee; Faculty advisor: Professor Roberts*

"Development of a Drug Delivery System using Ribociclib and Sunitinib for Pancreatic Neuroendocrine Tumor Treatment"
Jacob Boles, *Graduate mentor: Kim Ornell; Faculty advisor: Professor Coburn*

"Measuring Upper Extremity Muscle Signals in Able Bodied Individuals"
Alison Brecheisen, *Graduate mentor: Tess Meier; Faculty advisor: Professor Fischer*

"Development of an Assay to Evaluating Therapeutic Response of Cells in Multiple Culture Models**"**
Roisin Donnelly, *Graduate mentor: Kim Ornell; Faculty advisor: Professor Coburn*

"Combining Cyclic Stretch and Micro-Contact Printing to Study the Mechanical Regulation of Apoptosis"
Brooke Hayley, *Graduate mentor: Zach Goldblatt; Faculty advisor: Professor Billiar*

"User Biomechanics of Exoskeleton-Assisted Gait"
Erika Kasen, *Graduate mentor: Ying Fang; Faculty advisor: Professor Troy*

"A Pre-Computed Brain Response Atlas to Estimate Brain Strains in Automotive Crashes"
Tzu Fei Millard, *Graduate mentor: Kianoosh Ghazi; Faculty advisor: Professor Ji*

"Novel Horseradish Peroxidase Crosslinking Strategy for Fibrin Microthread Scaffolds"
Rebecca Mooney, *Graduate mentor: Meagan Carnes; Faculty advisor: Professor Pins*

"Basement Membrane Proteins as Critical Design Parameters for a Phenotypic Model of Tumor Metastasis"
Vu Nguyen, *Faculty advisor: Professor Whittington*

"Biomanufacturing of Human Cell Derived Matrices for Wound Healing Applications"
Amanda Rickards, *Graduate mentor: Dalia Shendi; Faculty advisor: Professor Rolle*

"Towards the Development of a Prevascularized Extracellular Matrix Scaffold for Tissue Engineering Applications"
Monica Wall, *Graduate mentor: Emily Robbins and Josh Gershlak; Faculty advisor: Professor Gaudette*

"Deconvoluting the Heterogeneity of Subcellular Cell Protrusion with Variable Lengths"
Lucy Woodbury, *Graduate mentor: Chuangqi Wang; Faculty advisor: Professor Lee*