

BIOENG 1002: Intramural Internship

2019 Fall Technical Symposium

Number of presentations = 23

McKenzie Sicke

Mentor: Dr. Bryan Brown

Angiogenic Response to Polypropylene Mesh Implants in a Rabbit Model

Srujan Dadi

Mentor: Dr. Bryan Brown

Development and Characterization of Ovarian Tissue-derived Hydrogel

Edward-James Gardner

Mentor: Dr. Bryan Brown

The Effects Aged ECM Has on Skeletal Muscle Regeneration

Grace Varughese

Mentor: Dr. Steven Abramowitch

Teaching Students the Multi-Faceted Use of Vacuum-Assisted Technology in Bioengineering

Audrey Case

Mentor: Dr. Jennifer Collinger

Finger Activation in Subjects with Spinal Cord Injury

Marlo Garrison

Mentor: Dr. Warren Ruder

Low-cost 3D-printed Tools for Biomedical Microscopy

Julia Foust

Mentor: Dr. George Stetten

Stabileyes: New Assistive Technology for Nystagmus

Benjamin Wong

Mentor: Dr. Nitish V. Thakor

Sphincter EMG of Pelvic Nerve Stimulation in Spinal Cord Injury Model

Michael Shulock

Mentor: Dr. Garrett Grindle

Design of a Robotic Device for Improving Accessibility in Packing Fulfilment Warehouses

Jocelyn Baker

Mentor: Dr. Kacey Marra Skeletal

Muscle ECM for Injection into the Rat Model Following Sciatic Nerve Injury

Thomas Skoff

Mentor: Dr. Howard Aizenstein

*Understanding the Association Between Depression and Emotion Regulation***Simon Shenk**

Mentor: Dr. William Stauffer

*Optogenetic Viral Targeting in Rhesus Macaques***Austin Cook**

Mentor: Dr. Kurt Beschorner

*Differences in Friction of New and Worn Shoes***Peter Gibson**

Mentor: Dr. Goeran Fiedler

*Development of a Force-Sensitive Foot Orthosis for Feedback in Gait Retraining***Liang Xue**

Mentor: Dr. Maja Nowakowski

*Asthma, Allergies, and Allergens***Jessica Weber**

Mentor: Dr. Douglas Weber

*The Effect of Proprioceptive Input on BCI Control***Jocelyn Hawk**

Mentor: Dr. Richard Debski

*3D Reconstruction of the Glenohumeral Capsule from MR Arthrogram***Michael Kassabian**

Mentor: Dr. Richard Debski

*Plane of Elevation Affects Maximum External Rotation in Subjects with Isolated Supraspinatus Tears***Alexandra Tompkins**

Mentor: Dr. Michel Modo

*Stem Cell Delivery to the Stroke Cavity***Patrick Iyasele**

Mentor: Dr. David Vorp

*Mechanical Characterization of Silk Derived Vascular Grafts***Katherine Stevenson**

Mentor: Dr. William Federspiel

Investigating In-Vitro Thrombosis

Emma Chen

Mentor: Dr. William Federspiel

Compressible Fiber Bundle Design & Its Effect on Blood Oxygenation in ECMO

Nikhita Perry

Mentor: Dr. Michel Modo

Effects of Combined Neural Stem Cells and Physical Therapy for Treatment of Stroke