BIOENG 1002: Intramural Internship

2020 Fall Technical Symposium

Number of presentations = 22

Seth Queen
Mentor: Dr. Jonathan Vande Geest
*Increasing the Alignment of Electrospun Biopolymer Hybrid Materials for Tissue Engineering Applications*

Kayla Swaltek
Mentor: Dr. Bryan Brown
*Simplified Quantitative Method for Peripheral Nerve Matrix (PNM) Mechanical Strength Testing*

Hilda Jafarah
Mentor: Dr. Bryan Brown
*Polyelectrolyte Coated Mesh: Man vs Machine*

Arijit Dutta
Mentor: Dr. Bryan Brown
*Aging Study*

Valeria Tupac Yupandqui
Mentor: Dr. Bryan Brown
*Muscle Function as an Index to Measure Peripheral Nerve Regeneration Induced by an Extracellular Matrix Based Hydrogel*

Eileen Li
Mentor: Dr. Hang Lin
*Biomaterials for Bone Grafts*

Joseph Madill
Mentor: Dr. Fabrisia Ambrosio
*Resilience Code for the MyEntropy Biological Age Model*

Alyssa Zehner
Mentor: Dr. Tracy Cui
*Analyzing the Stability of Microstimulation on the Electrode Tissue Interface*
Christopher Snodgrass  
Mentor: Dr. Katherine Hornbostel  
*Removing CO2 from the Ocean*

Victoria Martin  
Mentor: Dr. Steve Abramowitch  
*Observing Variability of Vaginal Anatomy via 3D Statistical Shape Modeling*

Noah Ziemba  
Mentor: Dr. Sparacino-Watkins  
*Mitochondrial Amidoxime Reducing Component (mARC) Expression in Human Tissue*

Kevin Pietz  
Mentor: Dr. Ipsita Banerjee  
*Islet-on-a-Chip Computational Model*

Andres Quinones  
Mentor: Dr. Warren Ruder  
*Synthetic Gene Networks Encoding Epigenetic and Genetic Memory*

Celia Davis  
Mentor: Dr. James Menegazzi  
*A Guided Tracheostomy Device*

Samil Paul  
Mentor: Dr. Steve Abramowitch  
*Teaching Students about STEM and Design*

Oreoluwa Odeniyi  
Mentor: Dr. Steve Abramowitch  
*Levator Ani Muscle Dimension Change with Age*

Minna Kuriakose  
Mentor: Dr. Douglas Weber  
*Injectrode Project*

Amaan Kazi  
Mentor: Dr. Sanjeev Shroff  
*Effects of Myofilament Acetylation and Phosphorylation on the Regulation of Cardiac Muscle Contraction*

David Chan  
Mentor: Dr. Marina V. Kameneva  
*Intracellular Hemoglobin Exchange for the Potential Treatment of Sickle Cell Disease*
Elizabeth Mountz  
Mentor: Dr. Howard Aizenstein  
*Association between Functional Dedifferentiation and Amyloid in Pre-Clinical Alzheimer's Disease*

Patrick Tatlonghari  
Mentor: Dr. Anne Robertson  
*Calcification in Cerebral Arteries and its Relevance to Aneurysms*

Neha Chodapaneedi  
Mentor: Dr. Elisa Castagnola  
*Melatonin Sensing In Vivo Using Bare Carbon Fiber Electrodes*