BIOENG 1002: Intramural Internship

2018 Spring Technical Symposium

Number of presentations = 37

Amy Hill
Mentor: Dr. Jonathan Vande Geest
Testing the Mechanical Integrity of a Decellularized Porcine Lamina Cribrosa

Hannah Geisler
Mentor: Dr. Bryan Brown
Comparing Angiogenesis in Polypropylene Mesh Implants

Shushma Gudla
Mentor: Dr. Marina Kameneva
Effects of Drag Reducing Polymers on Margination of Rigid Red Blood Cells

Lacey Kostishack
Mentor: Dr. Yungjae Chun
Ventriculoamniotic Shunt for Fetal Aqueductal Stenosis

Emily Trea
Mentor: Dr. Alexandre Dombrovski
Decision Making & Suicide in Older Adults

Henry Phalen
Mentor: Dr. Ervin Sejdic
Network Activation Differences in Schizophrenia Revealed through MEG Analysis

Pegah Zarandi
Mentor: Dr. William Federspiel
Characterization of Washout Hole Design for an Integrated Blood Pump-Oxygenator

Kiara Lee
Mentor: Dr. Lawerence Vernetti
CRISPR-Cas9 Mediated Knock Out of SIRT1 in a Liver Cell-Line, LX2

Sheldon Lin
Mentor: Dr. Aaron Batista
Spike Sorting Stability

Akhil Aniff
Mentor: Dr. Aaron Batista
Using Eye Behavior as a Metric of Task Learning
Jing Bian  
Mentor: Dr. Irina Tourkova  
*CLC3N Chloride Antiporter Effect on Osteogenesis*

Henry Isaac  
Mentor: Dr. Lance Davidson  
*Role of Mechanosensing in Gastrulation*

Tvisha Josyula  
Mentor: Dr. Kacey Marra  
*Dexamethasone for Adipose Tissue Retention*

Dominic Dawes  
Mentor: Dr. Kacey Marra  
*Qualitative Examination of Adipose-Derived ECM Implant Integration in Rat Models*

Matthew Astbury  
Mentor: Dr. Amit Sethi  
*Automating Occupational Therapy: The IHITS System*

Tyler Martin  
Mentor: Dr. Ian Sigal  
*Visualization of Non-Human Primate ONH Vasculature*

Minseok Koo  
Mentor: Dr. Ibrahim Tamer  
*Advances in Radio Frequency (RF) Coil Design for Ultra- High Field MRI Applications*

Justin Ke  
Mentor: Dr. Michael Modo  
*DTI Analysis and Tractography of Epilepsy in Human Hippocampi*

Sean Klevens  
Mentor: Dr. Steven Abramowitch  
*Tissue Bath System Restoration to Aid in the Study of Vaginal Mesh Complications*

Daniel Jacobs  
Mentor: Dr. Antonio D’Amore  
*Automated ECM Quantification*

Kedar Madi  
Mentor: Dr. Sanjeev Shroff  
*Post-Translational Regulation of Cardiac Muscle Contraction*
Sarah Tolaymat  
Mentor: Dr. Marina Kameneva  
*Identifying an Effective Storage Method for Drag Reducing Polymers*

Jonathan Scott  
Mentor: Dr. Matthew Smith  
*Interactions between Waveform Shape and the Visuomotor Response in Prefrontal Cortex*

Andrew Becker  
Mentor: Dr. Christi Kolarcik  
*Mapping the Central Nervous System of Transgenic (ALS) Mice*

Michelle Riffitts  
Mentor: Dr. Kevin Bell  
*Validation of Wireless IMU Joint Monitoring System for the Cervical Spine*

Shumeng Yang  
Mentor: Dr. William Anderst  
*Evaluating Skin Strain in Socket Prostheses*

Andja Potkonjak  
Mentor: Dr. Ana Mora  
*Pink1 Increases Age Related Susceptibility to Pulmonary Hypertension*

Graeme Meyer  
Mentor: Dr. Monica Perez  
*Time-Dependent Adaptations during Bilateral Arm Movements after Tetraplegia*

Ding Shen  
Mentor: Dr. Carolyn Anderson  
*177Lu-Labeled Phosphoramidate-Based PSMA Inhibitors*

Aiden Reuter  
Mentor: Dr. Kurt Beschorner  
*Vinyl Tile Surrogate for Mechanical Slip Testing*

Chisom Eni-Kalu  
Mentor: Dr. Lance Davidson  
*Identification of Mechanosensor Genes for Gastrulation of Xenopus Laevis*

Azante Griffith  
Mentor: Dr. Tracy Cui  
*In Vivo Stability of Soft Implantable Electrodes for Intramuscular Stimulation*
Edward Pacey  
Mentor: Dr. Richard Gottardi  
*Cartilage Hormonal Response: A Method to Prevent Tissue*

Lauren Williams  
Mentor: Dr. Marc Simon  
*Feasibility of Calculating Composite Pulmonary Vascular Impedance and Its Use as a Predictor of Right Ventricular Failure post-LVAD implantation*

Courtney Vu  
Mentor: Dr. Marc Simon  
*Changes in Right Ventricular Hemodynamics Prior to LVAD Implantation and the Association with RV Failure*

Xinyu Li  
Mentor: Dr. Rocky Tuan  
*Effect of ECM on Muscle Regeneration*

Max Baxter  
Mentor: Dr. William Federspiel  
*In Vivo Hemolysis and Blood Chemistry in a Wearable Artificial Lung*