BIOENG 1002: Intramural Internship

2018 Fall Technical Symposium

Number of presentations = 28

Rajat Lahiri
Mentor: Dr. Jana Iverson
*Motor Planning of Reaching Behavior in Toddlers with Risk for Autism*

Eleni Parke
Mentor: Dr. Eric Lagasse
*Immunologic Effects of Syngeneic Thymus Transplantation to the Mesenteric Lymph Node*

Brian Coyne
Mentor: Dr. Richard Debski
*Development of a Device for Applying Tension to Ligaments*

Claire Kraft
Mentor: Dr. Warren Ruder
*A Mechatronic System for the Magnetic Manipulation of Biomedical Specimens*

Paul Movizzo
Mentor: Dr. Warren Ruder
*A 3D-Printed Device for Deployment of Living Biosensors of Diseases*

Rahul Ramanathan
Mentor: Dr. Gwendolyn Sowa
*Metformin Suppresses Pro-Inflammatory and Catabolic Expression in Rat Annulus Fibrosus*

David Sapirstein
Mentor: Dr. Joseph Berry
*Micro-Particle Quantification via Micro-Flow Image Analysis*

Katherine Rohde
Mentor: Dr. Christi Kolarick
*Hindlimb Neural Circuitry in the Mouse*

Anna Dzuricky
Mentor: Dr. Bing Wang
*Improving Muscle Physiological Function in Duchenne Muscular Dystrophy*

Nithya Narayanan
Mentor: Dr. Shilpa Sant
*Kinetics of Malignant and Benign Mineral Deposition in Collagen-mimetic Hydrogel Matrices*
Shivani Tuli  
Mentor: Dr. Yang Liu  
*Tyramide Staining of Cells*

Kaylene Stocking  
Mentor: Dr. Takashi Kozai  
*Intracortical Neural Stimulation with Ultra Small Carbon Fiber Electrodes*

Arvind Venkatraman  
Mentor: Dr. Bryan Brown  
*Ovarian-Derived Hydrogels for Biomedical and Biotechnology Applications*

Kyungchul Yoon  
Mentor: Dr. Aaron Batista  
*Spike Sorting to Facilitate Neural Data Analysis*

Lauren Grice  
Mentor: Dr. Michel Modo  
*Diffusion Tensor Image Analysis of Stroke Damaged Brains Treated with Combined Neural Stem Cell and Physical Therapy*

Hannah Fisher  
Mentor: Dr. Kurt Beschorner  
*Coefficient of Friction in Slip-Resistant vs Not Slip-Resistant Shoes*

Sneha Jeevan  
Mentor: Dr. Xinyan Cui  
*PMA Stimulation of Glial Cells via tNP Surface Modifications*

Daniel Sokolowski  
Mentor: Dr. Bryan Brown  
*Improving PNS Nerve Repair via PNM Injection*

Angela Cinaglia  
Mentor: Dr. David Vorp  
*A Machine Learning Tool for Predicting Abdominal Aortic Aneurysm Risk*

Gordon Bryson  
Mentor: Dr. Youngjai Chun  
*Optimization of Esophocclude Device for Prevention of Pulmonary Aspiration*

Nikita Patel  
Mentor: Dr. Xinyan Cui  
*Direct Detection of Resting Dopamine Using PEDOT/fCNT Coated Microelectrodes*
Samuel Phillips  
Mentor: Dr. Ana Mora  
*Mitochondrial Dysfunction in the Pathogenesis of Pulmonary Hypertension*

Vivian Hu  
Mentor: Dr. Alex Deiters  
*Chronological Recording of Stimuli Using CRISPR/Cas9 Mediated Base Editing*

Jordan Sturm  
Mentor: Dr. Partha Roy  
*Screen for Novel Anti-Angiogenic Agent via Inhibition of Actin:Profilin 1 Interaction*

Sara Kenes  
Mentor: Dr. Thomas Lozito  
*Mammalian Cells Injected into Lizard Tails Survive and Reconstitute Regenerated Tissue*

Danielle Danucalov  
Mentor: Dr. Thomas Lozito  
*Neural Stem Cell Proliferation in the Secondary Neural Tube for Lizards Versus Mice*

Hannah Schmidt  
Mentor: Dr. Jonathan Vande Geest  
*Monitoring the In-Vitro Extracellular Matrix Remodeling of Tissue Engineered Vascular Grafts*

Catherine Hobayan  
Mentor: Dr. Kurt Beschornr  
*Development of a Biomechanical Shoe Wear Apparatus for the Analysis of Foot Angle During Gait*