

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 Beschorner

Development of a Biomechanical Shoe Wear Apparatus for the Analysis of Foot Angle During Gait