2017 Sigma Xi Graduate Student Poster Competition

First Place Winners

**D. Nook Alongkronrusmee (Life Sciences)**
“Identification of a Novel Interaction Site of the Mu-Delta Opioid Receptor Heterodimers”

**Shirisha Chittiboyina (Post Doc – LPE)**
“Investigating the Role of Microenvironmental Stress in Breast Cancer Progression through Transcriptional Regulation Mechanisms”

**Joshua Hudson (Life Sciences)**
“Within-Day Dietary Protein Distribution Does Not Influence Changes in Body Composition and Cardio-Metabolic Health Indices after Weight Loss Combined with Resistance Training in Adults Who Are Overweight”

**Samuel T. Kissinger (Life Sciences)**
“Theta Oscillations in Primary Visual Cortex Emerge with Familiarity to Visual Stimuli”

**Joseph H Lynch (Post Doc – LPE)**
“Improving Biofuel Viability: Metabolic Engineering of Arabidopsis for Production of 2-Phenylethanol”

**Shannon R. Pattenaude (Physical Sciences)**
“Water-Mediated Aggregation of 2-butoxyethanol”

**Elizabeth Phillips (Engineering Sciences)**
“Detection of Sepsis Causing Bacteria on Paper Test Strips from Whole-Blood Samples”

**Kerri E. Rodriguez (Behavioral and Social Sciences)**
“Preliminary Efficacy of Service Dogs for Posttraumatic Stress Disorder (PTSD) in Military Veterans”

**Tyler B. Spence (Post Doc – LPE)**
“Regional Variations in Noise Mitigation Policy Implementation at Large US Airports”

**Shruthi Suresh (Engineering Sciences)**
“Multi-Functional Wrist Orthotic for Wireless Gesture Based Control and Physiological Feedback”

**Ning Xiang (Life Sciences)**
“Identification of Antimicrobial Peptide from Soy Protein”
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Honorable Mention

Cheng Hsien Lin (Life Sciences)
“Application of Scanning Open Path Fourier Transform Infrared Spectroscopy (OP-FTIR) to Measure Greenhouse Gas (GHG) Emissions from Agricultural Soils”

Ariangela Kozik (Life Sciences)
“Sex Differences in the Gut Microbiome of Mice and its Impact on Acute TNBS Colitis”

Haroon Mohammad (Post Doc – LPE)
“Profiling Diphenylurea Compounds as a New Antibiotic Class Targeting Bacterial Cell Wall Synthesis”

Casey Hooker (Engineering Sciences)
“Anaerobic Fungal Enzymes Efficiently Degrade Diverse Agricultural and Food Wastes for Bioenergy”

Ashleigh M Kellerman (Behavioral and Social Sciences)
“Dyadic Synchrony and Responsiveness in the First Year – Associations with Autism Risk and Later Diagnoses”

Yoon Young Kwak (Behavioral and Social Sciences)
“Reciprocal Relationship between Parental Psychological Aggression and Adolescent Externalizing Problems: Does the Reporter Matter?”