Medical Student Research Day Awards
September 4, 2015

The Borts Award (U of I Foundation Award)
Morgan Bobb, M1
“Telemedicine Provides Non-Inferior Research Informed Consent for Remote Enrollment in an Emergency Department-based Clinical Trial”
Mentor: Dr. Nicholas Mohr, Emergency Medicine and Anesthesia

The Edward Heath Award (U of I Foundation Award)
Eliot Zhu, M1G
“forestSV v2: Resolving structural variation from whole-genome short read sequencing data with statistical learning”
Mentor: Dr. Jacob Michaelson, Psychiatry

The Melvin Marcus Clinical Research Award (U of I Foundation Award)
James McMenimen, M2
“Impaired mucociliary transport in CF piglets: pH sensitivity and interrogation of the gland-surface interface”
Mentor: Dr. Michael Welsh, Internal Medicine

The Margaret V. Lunsford Award for Research in Anesthesia
Dean Elhag, M2
“Factors Affecting Turnover Time in a Hospital Surgical Suite”
Mentor: Dr. Javier H. Campos and Dr. Franklin Dexter, Anesthesia

Research Excellence in Anesthesia
Tai Holland, M1
“Early Life Exposure to General Anesthetics Reduces Sleep in Adult Drosophila melanogaster”
Mentor: Dr. Toshi Kitamoto, Anesthesia

The Nicholas P. Rossi Research Award in Cardiothoracic Surgery
Sara Stucker, M2
“Flow Differential as a Method of Predicting ECMO Oxygenator Failure”
Mentor: Dr. Joseph Turek, Cardiothoracic Surgery

Research Excellence in Dermatology
Samantha Aust, M1
“Evaluation of APC’s and Tregs in Lesions from Patients with the Autoimmune Blistering Disease, Bullous Pemphigoid”
Mentor: Dr. Kelly Messingham, Dermatology

Research Excellence in Emergency Medicine
Evelyn Qin, M2
“Epidemiology and Geospatial Analysis of All-Terrain Vehicle Crashes in Iowa”
Mentor: Dr. Gerene Marie Denning, Emergency Medicine
Outstanding Presentation in Family Medicine Research

**Garrick Priebe, M2**
“How Accurately Do Resident Case Presentations Reflect the Content of Clinical Interviews? – A Comparative Analysis”
Mentor: Dr. Marcy Rosenbaum, Family Medicine

The John Stokes Research Award in Internal Medicine

**Joshua Godding, M2**
“Impact of Early Expansion of the Affordable Care Act in Select States”
Mentor: Dr. Gary Rosenthal, Internal Medicine

Research Excellence in Internal Medicine

**Elliot Burghardt, M1G**
“Rapid, Culture-Free Identification of Bacterial Pathogens”
Mentor: Dr. James McNamara, Internal Medicine

Research Excellence in Internal Medicine

**Alexander Greiner, M2**
“Identification of Sudden Cardiac Death Candidate Genes by Whole Exome Sequencing”
Mentor: Dr. Barry London, Internal Medicine

Outstanding Presentation in Basic Neuroscience Research

**Tatiana Correa, M2**
“Cox-2 and 15-PGDH Play a Critical Role in Progression of Cerebral Aneurysms to Rupture with Evidence of Gender Differential Response to Aspirin in Humans and Mice”
Mentor: Dr. David Hasan, Neurosurgery

Outstanding Presentation in Clinical Neuroscience Research

**Matthew Sloan, M2**
“Relationship between hippocampal volume, spatial memory, and cardiorespiratory fitness in older adults”
Mentor: Dr. Daniel Tranel, Neurology
Dr. Michelle Voss, Psychological and Brain Sciences

Outstanding Presentation in Translational Neuroscience Research

**Johnny Kingyon, M1**
“Mechanisms of human timing: An intraoperative electrophysiology study in Parkinson's disease.”
Mentor: Dr. Nandakumar Narayanan, Neurology

Excellence in Clinical Research in Obstetrics and Gynecology

**Allie Rapp, M2**
“Patient Satisfaction with Immediate Post-delivery Long Acting Reversible Contraception Placement”
Mentor: Dr. Abbey Hardy-Fairbanks, Obstetrics & Gynecology

Excellence in Basic Science Research in Obstetrics and Gynecology

**Jenna Peterson, M2**
“Differential Vasopressin Receptor Expression and Response in Preeclampsia”
Mentor: Dr. Mark Santillan, Obstetrics & Gynecology
The William E. Scott Award for Ophthalmology Research

Zhaohui Hu, M2
“Why can’t patients with albinism see? Electrophysiology and structure of the central retina in albinism”
Mentor: Dr. Arlene Drack, Ophthalmology & Visual Sciences

The Thomas A. Weingeist Award for Ophthalmology Research

Ali Cohen, M2
“Violence as a Mechanism of Ocular Injury in Women”
Mentor: Dr. Erin Shriver, Ophthalmology & Visual Sciences

The Ponseti Prize in Orthopaedic Research

Caroline Sanderson, M2
“Dynamic serial casting and physical therapy to prevent hip dislocation in children with cerebral palsy”
Mentor: Dr. Jose A. Morcuende, Orthopaedics and Rehabilitation

Research Excellence in Orthopaedics

James Kohler, M2
“Can surgeons accurately predict the risk of perioperative complications?”
Mentor: Dr. Benjamin Miller, Orthopaedics and Rehabilitation

Research Excellence in Otolaryngology

Sanam Zarei, M1
“Altering Ear Development to Mimic Reduced Vestibular Input in the Elderly”
Mentor: Dr. Bernd Fritzsch, Otolaryngology

The Richard G. Lynch, MD Award for Pathology

Nicholas Borcherding, M2G
“ROR1, an oncogenic target for therapy in basal-like breast cancer”
Mentor: Dr. Weizhou Zhang, Pathology

The Richard G. Lynch, MD Award for Pathology

Robert Humble, M1
“Extra tubes at UI Health Care: a work in progress”
Mentor: Dr. Matthew Krasowski, Pathology

Outstanding Presentation in Pediatric Basic Science Research

Rachel Schenkel, M1
“The LPO/DUOX/Halide Airway Host Defense System Has Antiviral Properties Against Influenza A”
Mentor: Dr. Paul McCray, Pediatrics

Outstanding Presentation in Pediatric Clinical Research

Greta Dahlberg, M2
“Implementation of trauma informed care in a pediatric population assessed for child abuse and neglect”
Mentor: Dr. Resmiye Oral, Pediatrics
Outstanding Presentation in Pharmacological and Toxicological Sciences Research

Matthew Traxler, M2
“Identifying differentially expressed genes following the knockdown of RGD1562963 in H4IIE hepatoma cells”
Mentor: Dr. Anne Kwitek, Pharmacology

The George Winokur Research Award in Psychiatry

Scott Laurenzo, M2
“Irradiance Measurement Abnormalities in Seasonal Affective Disorder”
Mentor: Dr. Jess Fiedorowicz, Psychiatry

The Robert G. Robinson Research Award in Psychiatry

Margaret Fuller, M2G
“Alcohol Abuse: a role for ASICs?”
Mentor: Dr. John Wemmie, Psychiatry

Research Excellence in Psychiatry

Ian Kidder, M2
“Role of HDAC4 in Eating Disorders”
Mentor: Dr. Michael Lutter, Psychiatry

The Jason Martin MD, Medical Student Research Award

Grant Riesberg, M2
“Evaluation of Focal Neurologic Lesions in Refractory Epilepsy Utilizing 7T Magnetic Resonance Imaging”
Mentor: Dr. Vincent A. Magnotta, Radiology

The Larry W. Oberley Research Award in Radiation Oncology

Jenna Fussell, M2
“A lipogenic-switch shifts metabolism from glycolysis to mitochondrial respiration during aging”
Mentor: Dr. Prabhat Goswami, Radiation Oncology

The Kimberly Ephgrave Medical Student Research Award in Surgery

Miguel Rodriguez-Homs, M2
“A New, Low Frequency Gene Predisposing to Juvenile Polyposis”
Mentor: Dr. James Howe, Surgery

Research Excellence in Urology

Brenton Sherwood, M2
“Evaluation of the efficacy, effectiveness, and cost-effectiveness of telemedicine for urologic care in the state of Iowa’s prison population”
Mentor: Dr. Bradley Erickson, Urology