

# Medical Student Research Conference Awards

## September 14, 2018

### Mentor Awards

2018 Summer Research Fellowship Outstanding Mentor in Basic Science Research

**Christopher S. Stipp, PhD - Biology; Molecular Physiology and Biophysics**

Nominated by Brooke Jennings Deb, M1

2018 Summer Research Fellowship Outstanding Mentor in Clinical Research

**Katherine D. Mathews, MD - Pediatrics - Neurology**

Nominated by Madalyn Rasor, M2

### Student Research Awards - Foundation

François M. Abboud Prize for Best Platform Presentation (U of I Foundation Award)

**Kelly Yom, M2**

*"The Effect of Visual Aids in Preoperative Patient Counseling for Oculoplastic Surgery"*

Mentor: Audrey Ko, MD - Ophthalmology and Visual Sciences

Donald D. Heistad Prize for Best Poster Presentation (U of I Foundation Award)

**Joanna Silverman, M2**

*"EyePrint PRO 3-D Scanned Scleral Contact Lenses: Primary Indications, Visual Outcomes, and Complications"*

Mentor: Mark A. Greiner, MD - Ophthalmology and Visual Sciences

I.H. Borts Award (U of I Foundation Award)

**Andres Dajles, M2G**

*"Penalized Regression Models on the Lipid Profile of Subjects With Multiple Sclerosis"*

Mentor: Yuan Huang, PhD - College of Public Health - Biostatistics

Edward Heath Award (U of I Foundation Award)

**Nate Mullin, M1**

*"Transplantable photoreceptor grafts from patient-specific pluripotent stem cells"*

Mentor: Budd A. Tucker, PhD - Ophthalmology and Visual Sciences

Melvin L. Marcus Clinical Research Award (U of I Foundation Award)

**Morgan Bertsch, M4**

*"Anterior versus posterior total hip arthroplasty: A comparison of outcomes at an academic institution"*

Mentor: Jesse E. Otero, MD, PhD - Orthopedics and Rehabilitation

Global Health Programs Research Award

**Michael Klemme, M2**

*"Identification and Analysis of Leishmania exosome-associated proteins and patient demographic information in Natal, Brazil"*

Mentor: Mary E. Wilson, MD - Internal Medicine - Infectious Diseases; Microbiology & Immunology; Epidemiology

## Student Research Awards - Departmental

Margaret V. Lunsford Award for Research in Anesthesia

**Grant Young, M4**

*"Qualitative systematic review of reports of dural puncture and cerebral vein thrombosis"*

Mentor: Cynthia A. Wong, MD - Anesthesia - Obstetrical Anesthesia

Excellence in Anesthesia Basic Science Research

**Jessica Hui, M2**

*"Effects of region-specific knockouts of Ndufs4 on volatile anesthetic response"*

Mentors: Phillip G. Morgan, MD & Margaret M. Sedensky, MD - Department of Anesthesiology and Pain Medicine, UW Medicine, Seattle, WA

Arthur A. Spector Award for Basic Biomedical Research

**Ossama Abu-Halawa, M1**

*"Positive feedback between PI3Kd and glucocorticoids sensitizes resistant B-cell Precursor Acute Lymphoblastic Leukemia cells to treatment"*

Mentor: Miles Pufall, PhD - Biochemistry

Nicholas P. Rossi Research Award in Cardiothoracic Surgery

**Ben Wilkinson, M2**

*"The Utility of Routine X-ray Imaging Following Chest Tube Removal"*

Mentor: Kalpaj R. Parekh, MBBS - Surgery - Cardiothoracic Surgery

Research Excellence in Dermatology

**Kevin Cheung, M2G**

*"The Genetics of Melanoma in a Veteran Population"*

Mentor: Jennifer G. Powers, MD, FAAD - Dermatology

Research Excellence in Emergency Medicine

**Ryan Neuhaus, M1**

*"Mental Health and Substance Abuse Patients in the Emergency Department: Mobile Crisis Outreach and Healthcare Utilization"*

Mentor: Sangil Lee, MD, MS - Emergency Medicine

Excellence in Family Medicine Research

**Marissa Martin, M4**

*"Outpatient Frailty as a Risk Factor for the Development of Delirium in Geriatric Inpatients"*

Mentor: Michelle Weckmann, MD - Family Medicine; Psychiatry

Carl V. Gisolfi Award for Excellence in Health and Human Physiology Research

**Nealy Wooldridge, M2**

*"Morning Blood Pressure Surge is Blunted in Individuals with Chronic Anxiety: Relation with Nocturnal Blood Pressure Dipping"*

Mentor: Gary Pierce, PhD - Health and Human Physiology

John Stokes Award for Research in Internal Medicine

**Mikako Harata, M1**

*"Delivery of short hairpin RNA via lentivirus in human pseudoislets provides a model to test dynamic regulation of insulin secretion and gene function in human islets"*

Mentor: Yumi Imai, MD - Internal Medicine - Endocrinology and Metabolism

Excellence in Internal Medicine Research

**Richard Uhlenhopp, M2**

*"Staphylococcus aureus Nasal Carriage and the Risk of Surgical Site Infections among Patients Undergoing Orthopedic Surgical Procedures to Fix Acute Fractures: A Retrospective Cohort Study"*

Mentor: Loreen A. Herwaldt, MD - Internal Medicine - Infectious Diseases; Epidemiology

Excellence in Internal Medicine Research

**Joyce Wahba, M2**

*"Insights into the pathogenesis of leishmaniasis through the study of circulating exosomes"*

Mentor: Mary E. Wilson, MD - Internal Medicine - Infectious Diseases; Microbiology and Immunology; Epidemiology

William Johnson Award for Research in Microbiology and Immunology

**Maddie Mix, M1**

*"The role of the inflammasome in generating CD8 T cell responses and protection against malaria"*

Mentor: John T. Harty, PhD - Microbiology and Immunology; Pathology

Excellence in Molecular Physiology & Biophysics Research

**Akansha Jain, M1**

*"Utilizing ferroptosis to target therapy-resistant cancer cells"*

Mentor: Michael Henry, PhD - Molecular Physiology & Biophysics; Pathology; Urology; Radiation Oncology

Excellence in Basic Neuroscience Research

**Jonathan Chou, M4**

*"Effect of dorsal raphe nucleus stimulation on post-ictal generalized EEG suppression following maximal electroshock induced seizures in mice"*

Mentor: Gordon F. Buchanan, MD, PhD - Neurology

Excellence in Clinical Neuroscience Research

**David Crompton, M2**

*"A New Rapid Visual Field Screening Test for Patients with Idiopathic Intracranial Hypertension"*

Mentor: Michael Wall, MD - Neurology; Ophthalmology and Visual Sciences

Excellence in Translational Neuroscience Research

**Hassan Ahamed, M1**

*"The Effect of Monoamine Reuptake Inhibitors on Seizure Susceptibility in DBA/1 Mice"*

Mentor: George Richerson, MD, PhD - Neurology; Molecular Physiology and Biophysics; Neurosurgery

Excellence for Clinical Research in Obstetrics and Gynecology

**Sarah Bakir, M2**

*"Accuracy of Vaginal pH Testing Before and After Addition of Sterile Saline"*

Mentor: Abbey J. Hardy-Fairbanks, MD - Obstetrics and Gynecology

Excellence in Obstetrics and Gynecology Research

**Grace Chabal, M2**

*"Recovery from cesarean delivery at UIHC: a comparison to Enhanced Recovery Protocols"*

Mentor: Noelle C. Bowdler, MD - Obstetrics and Gynecology

Thomas A. Weingeist Award for Ophthalmology Research

**Dabin Choi, M2**

*"The Effect of Sleep Position Preference on Periorbital Symmetry"*

Mentor: Erin M. Shriver, MD, FACS - Ophthalmology and Visual Sciences

William E. Scott Award for Ophthalmology Research

**Tucker Dangremond, M2**

*"Electrophysiology and optical coherence tomography of the central retina in aniridia due to PAX6 mutations"*

Mentor: Arlene V. Drack, MD - Ophthalmology and Visual Sciences

Hansjoerg E. Kolder Award for Ophthalmology Research

**Pavane Gorrepati, M2**

*"The Effect of Eyelid Surgery on the Ocular Surface, Tear Composition, and Meibomian Gland Morphology and Function"*

Mentor: Erin M. Shriver, MD, FACS - Ophthalmology and Visual Sciences

Ignasio V. Ponseti Prize in Orthopedic Research

**Benjamin Fick, M2**

*"A Retrospective Review of Percutaneous Ultrasonic Tenotomy for Chronic Tendinopathies"*

Mentor: Mederic M. Hall, MD - Orthopedics and Rehabilitation; Family Medicine; Radiology

Research Excellence in Orthopedics

**Michael Slattery, M2**

*"Does Iatrogenic Cartilage Injury Risk Damage to Otherwise Healthy Chondrocytes Overlying CAM Morphology?"*

Mentor: Robert Westermann, MD - Orthopedics and Rehabilitation

Excellence in Otolaryngology Research

**Joseph Vecchi, M2G**

*"Using engineered photopolymerized micropatterns and live cell imaging to study the growth of Spiral Ganglion Neurons"*

Mentor: Marlan R. Hansen, MD - Otolaryngology; Neurosurgery

Richard G. Lynch Research Award in Pathology

**Sarah Oest, M3**

*“Activation and Utilization of an Electronic Health Record Patient Portal at an Academic Medical Center - Impact of Patient Demographics and Geographic Location”*

Mentor: Matthew D. Krasowski, MD, PhD - Pathology

Richard G. Lynch Research Award in Pathology

**Hayley Hansen, M2**

*“Relationships Between Symptoms, Patient Demographics, and Cervical Cancer”*

Mentor: Colleen K. Stockdale, MD, MS - Obstetrics and Gynecology

Excellence in Pediatric Basic Science Research

**Jared Peterson, M2**

*“Neurocognitive Function in Pediatric Brain Tumor Survivors”*

Mentor: Mariko Sato, MD, PhD - Pediatrics - Hematology Oncology

Excellence in Pediatric Clinical Research

**Jasmine Roghair, M1**

*“Neuropsychological Profiles of Youth Participants in Flag vs Tackle Football”*

Mentors: Patricia Espe-Pfeifer, PhD - Psychiatry; Pediatrics and Andrew R. Peterson, MD, MSPH - Pediatrics - Adolescent Medicine; Orthopedics and Rehabilitation

Excellence in Pharmacological and Toxicological Sciences Research

**Ryan Staudte, M2**

*“Endocrine Effects of BPF on HS Rats”*

Mentor: Anne E. Kwitek, PhD - Pharmacology; Internal Medicine

George Winokur Research Award in Psychiatry

**Tong Yu, M2**

*“Epigenetics of Delirium: Investigation of DNA Methylation Changes on Tumor Necrosis Factor alpha in Search for Delirium Biomarker”*

Mentor: Gen Shinozaki, MD - Psychiatry

Robert G. Robinson Research Award in Psychiatry

**Kyle Walsh, M2**

*“The influence of chronic cerebellar stimulation on cognitive function and circuitry”*

Mentor: Krystal L. Parker, PhD - Psychiatry

Lauretta Bender Research Award in Psychiatry

**Leo Brueggeman, MSTP**

*“Forecasting Autism Gene Discovery With Machine Learning and Heterogeneous Biological Data”*

Mentor: Jacob J. Michaelson, PhD - Psychiatry; Communication Science and Disorders; Biomedical Engineering

Jason Martin, MD, Medical Student Research Award in Radiology

**Nicholas Fleege, M4**

*"MRI Occult Meniscal Tears of the ACL Deficient Knee: Characterization of Occult Meniscal Tears and Association with Medial Femoral Condyle Rim Bone Contusions"*

Mentor: D. Lee Bennett, MA, MBA, MD, FACR - Radiology - Division of Musculoskeletal Radiology

Larry W. Oberley Research Award in Radiation Oncology

**Maggie Gannon, M2**

*"Identification of biomic variables impacting clinical outcomes in non-small cell lung cancer patients to improve imaged-based machine learning response prediction"*

Mentor: Yusung Kim, PhD - Radiation Oncology

Kimberly Ephgrave Medical Student Research Award in Surgery

**Austin Kazarian, M2**

*"Clinical outcome of pancreatic cancer patients with indeterminate pulmonary nodules"*

Mentor: Carlos H. Chan, MD, PhD - Surgery - Surgical Oncology and Endocrine Surgery

Excellence in Urology Research

**Zachary Rye, M1**

*"Post-operative Pain Management of Pediatric Urological Procedures"*

Mentor: Douglas W. Storm, MD - Urology; Pediatrics