

# Medical Student Research Conference Awards

## September 20, 2019

### Mentor Awards

2019 Summer Research Fellowship Outstanding Mentor in Basic Science Research

**Lori Wallrath, PhD - Biochemistry**

Nominated by Jose L. Rios-Monterrosa, M2

2019 Summer Research Fellowship Outstanding Mentor in Clinical Research

**Erin Shriver, MD - Ophthalmology**

Nominated by Charlene Tran, M2

2019 Summer Research Fellowship Outstanding Mentor in Translational Research

**Ling Yang, PhD – Anatomy and Cell Biology**

Nominated by Mikako Harata, M2

### Student Research Awards - Foundation

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

**Maddie Mix, M2G**

*"Description of a novel population of dynorphinergic neurons in the human brainstem that suppress pain and itch"*

Mentor: Alexander Bassuk, MD, PhD - Pediatrics

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

**Nathen Spitz, M1**

*"Investigating cortico-limbic-striatal circuit interactions during risky decision-making"*

Mentor: Andrew Holmes, PhD - National Institute of Alcohol Abuse and Alcoholism, NIH

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

**Kristin Weeks, M4G**

*"Impact of Rurality on Stage IV Ovarian Cancer at Diagnosis: A Midwest Cancer Registry Cohort Study"*

Mentor: Mary Charlton, PhD - Epidemiology

Edward Heath Award (U of I Foundation Award)

**Ashley Radig, M2**

*"Role of DHH1 in insulin secretion and mitochondrial function in pancreatic beta cells"*

Mentor: Yumi Imai, MD - Internal Medicine

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

**Emily Solsrud, M2**

*"The Prevalence of Hip Pathology in Male Patients Presenting to a General Urology Clinic for Orchialgia"*

Mentor: Timothy Brown, MD - Orthopaedics & Rehabilitation

Global Health Programs Research Award

**Olivia Chase, M2**

*"Human exposure to Anaplasma phagocytophilum and correlation with Leishmania infantum seropositivity in Natal, Brazil"*

Mentor: Christine Petersen, DVM, PhD - Epidemiology

## **Student Research Awards - Departmental**

Margaret V. Lunsford Award for Research in Anesthesia

**Joe Stearns, M2**

*"Predicting pain after cesarean section using a 3 question questionnaire, local anesthesia infiltration and observer rating"*

Mentor: Unyime Ituk, MBBS, FCARCSI - Anesthesia

Arthur A. Spector Award for Basic Biomedical Research

**Jose Rios-Monterrosa, M2**

*"Analysis of the autophagy chaperone p62 in lamin-associated muscular dystrophy"*

Mentor: Lori Wallrath, PhD - Biochemistry

Nicholas P. Rossi Research Award in Surgery

**Anna White, M2**

*"Evaluation of a Communication Skills Curriculum for Surgical Residents"*

Mentor: Muneera Kapadia, MD - Surgery

Research Excellence in Dermatology

**Sam Palmer, M2**

*"Endotyping Mucous Membrane Pemphigoid"*

Mentor: Janet Fairley, MD - Dermatology

Research Excellence in Emergency Medicine

**Nathan Walton, M2**

*"Regionalization for Time-Critical Conditions: Classifications, Comparisons, and Consideration"*

Mentor: Nicholas Mohr, MD - Emergency Medicine

Excellence in Family Medicine Research

**Timothy Sevcik, M2**

*"Nutrition and Exercise Patterns Among Toddlers"*

Mentors: David Bedell, MD and Barcey Levy, MD, PhD - Family Medicine

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

**Ryan Ward, M1**

*"Cognitive Function in Relation to Hypertension and Education"*

Mentor: Gary Pierce, PhD – Health and Human Physiology

John Stokes Award for Research in Internal Medicine

**Kuangda Shan, M4**

*"Endoscopic Dilation is a Safe and Effective Therapeutic Procedure for Patients with Eosinophilic Esophagitis"*

Mentor: Yehudith Assouline-Dayana, MD - Internal Medicine

Excellence in Internal Medicine Research

**Jayden Bowen, LOA**

*"Triggering receptor expressed on myeloid cells-1 regulates many aspects of neutrophil function"*

Mentor: Julia Klesney-Tait, MD, PhD - Internal Medicine

Excellence in Internal Medicine Research

**Madalyn Rasor, M3**

*"PEG-Asparaginase Induced Liver Injury: Case Report and Systematic Review of the Literature"*

Mentor: Arvind Murali, MBBS - Internal Medicine

William Johnson Award for Research in Microbiology and Immunology

**Xavier Tijerina, M1G**

*"Staphylococcus Aureus Clinical Isolates Induce Pseudomonas Aeruginosa Exploratory Motility"*

Mentor: Dominique Limoli, PhD - Microbiology and Immunology

Excellence in Molecular Physiology & Biophysics Research

**Joseph Vecchi, LOA**

*"Exploring the role of CABP1 and Ca<sup>2+</sup> in neurite growth, alignment, and pathfinding"*

Mentor: Amy Lee, PhD - Molecular Physiology & Biophysics

Excellence in Basic Neuroscience Research

**Casey Inman, M2**

*"Finding the brain's internal clock: the role of dopamine in interval-timing behavior"*

Mentor: Nandakumar Narayanan, MD, PhD - Neurology

Excellence in Clinical Neuroscience Research

**Eli Perez, M2**

*"Factors Predicting Spinal Cord Stimulator Explantation"*

Mentor: Matthew Howard, MD - Neurosurgery

Excellence in Translational Neuroscience Research

**Carlos Osorno-Cruz, M2**

*"Continuous IV tirofiban in Acute Aneurysmal Subarachnoid Hemorrhage is Associated with a Reduced Risk of Clinical Vasospasm"*

Mentor: David Hasan, MD - Neurosurgery

Excellence for Clinical Research in Obstetrics and Gynecology

**Laurel Smeins, M2**

*"Effect of Labor & Delivery Unit Closures on Access to Obstetrical Care in Rural Iowa"*

Mentor: Stephanie Radke, MD - Obstetrics & Gynecology

Excellence in Obstetrics and Gynecology Research

**Emily Capper, M2**

*"Clinical Factors that Affect the Cumulative Live Birth Rate from an IVF Cycle"*

Mentor: Brad Van Voorhis, MD - Obstetrics & Gynecology

Thomas A. Weingeist Award for Ophthalmology Research

**Benjamin Walker, M2**

*"The Effect of a Video Game Warm-Up on Surgical Simulator Performance"*

Mentor: Erin Shriver, MD - Ophthalmology and Visual Sciences

William E. Scott Award for Ophthalmology Research

**Rose McGlaufflin, M2**

*"Visually evoked potentials in children with inherited retinal disease"*

Mentor: Arlene Drack, MD - Ophthalmology & Visual Sciences

Hansjoerg E. Kolder Award for Ophthalmology Research

**Josh Hagedorn, M1**

*"A novel MYRF mutation linked to Nanophthalmos"*

Mentor: John Fingert, MD, PhD - Ophthalmology & Visual Sciences

Ignasio V. Ponseti Prize in Orthopedic Research

**Anthony Schneider, M2**

*"Activity Level and Sport Type in Adolescents Correlates with Development of Cam Morphology"*

Mentor: Natalie Glass, PhD - Orthopaedics and Rehabilitation

Research Excellence in Orthopedics

**Matt Meyer, M2**

*"Lumbosacral Morphology, Mobility, and the Relationship with Instability Following Total Hip Arthroplasty"*

Mentor: Timothy Brown, MD - Orthopaedics and Rehabilitation

Excellence in Otolaryngology Research

**Ryan Sabotin, M1**

*"Development of Chimeric Helper-Dependent Adenovirus Vectors for Inner Ear Gene Delivery"*

Mentor: Marlan R. Hansen, MD - Otolaryngology – Head & Neck Surgery

Richard G. Lynch Research Award in Pathology

**Paige Noble, M1**

*"Trends in National Institutes of Health Funding to US Allopathic Medical Schools"*

Mentor: Brooks Jackson, MD - Pathology

Richard G. Lynch Research Award in Pathology

**Heather Greene, M2**

*"Evaluation of Osmolal Gap to Estimate Concentrations of Toxic Alcohols and Glycols in Patients at an Academic Medical Center"*

Mentor: Matthew Krasowski, MD, PhD - Pathology

Excellence in Pediatric Basic Science Research

**Anna Greenwood, M1**

*"Differential effects of gram-negative bacteria in Paneth cell disruption-induced necrotizing enterocolitis"*

Mentor: Steven McElroy, MD - Pediatrics

Excellence in Pediatric Clinical Research

**Velarchana Santhana, M2**

*"Assessment of central venous catheter repair procedure success in pediatric intestinal failure"*

Mentor: Riad Rahhal, MD - Pediatrics

Excellence in Neuroscience and Pharmacology Research

**Hassan Ahamed, M2G**

*"The Effects of Chronic Sleep Deprivation on Hippocampal Gene Expression"*

Mentor: Ted Abel, PhD - Molecular Physiology & Biophysics

George Winokur Research Award in Psychiatry

**Bryn Myers, M1**

*"Cav1.2 as a therapeutic target for psychiatric disease: the role of the voltage-gated calcium channel Cav1.2 on cerebellum-associated behavior in mice"*

Mentor: Aislinn Williams, MD, PhD - Psychiatry

Robert G. Robinson Research Award in Psychiatry

**Natalie Ross, M2**

*"Implementing a Crisis Stabilization Unit: Impacts on Emergency Behavioral Health Patients"*

Mentor: Elaine Himadi, MD - Psychiatry

Lauretta Bender Research Award in Psychiatry

**Hannah Van Ert, M2G**

*"Evaluation of maternal prenatal stress and its effects on placental redox processes – a neurodevelopmental perspective"*

Mentor: Hanna Stevens, MD, PhD - Psychiatry

Jason Martin, MD, Medical Student Research Award in Radiology

**Joseph Carmody, M1**

*"Evaluation of secondary bone contusion patterns by pre-operative MRI in the ACL competent patient that may predict the presence of an MRI occult meniscal tear"*

Mentor: D. Lee Bennett, MD - Radiology

Larry W. Oberley Research Award in Radiation Oncology

**Ryan Lavering, M2**

*"Investigating the Relationship Between the Labile Iron Pool and Proliferation in Glioma Cells"*

Mentor: Bryan Allen, MD, PhD - Radiation Oncology

Kimberly Ephgrave Medical Student Research Award in Surgery

**Stephanie Baldwin, M4**

*"Support for Burn Survivors: Influential Factors in the Recovery Process"*

Mentor: Lucy Wibbenmeyer, MD - Surgery

Excellence in Urology Research

**Katie Christel, M2**

*"A Safe and Effective Approach to Clinical Scrotal Orchiectomy for Transgender Women Using Local Anesthesia"*

Mentor: Bradley Erickson, MD - Urology