

# Medical Student Research Conference Awards

## September 20, 2021

### Mentor Awards

2021 Summer Research Fellowship Outstanding Mentor in Basic Science Research

**Martine Dunnwald, PharmD, PhD – Anatomy and Cell Biology**

Nominated by Alexis Kollasch, M2

2021 Summer Research Fellowship Outstanding Mentor in Clinical Research

**Amy Pearlman, MD - Urology**

Nominated by Mala Sharma, M2

2021 Summer Research Fellowship Outstanding Mentor in Translational Research

**Cesar de Cesar Netto, MD, PhD – Orthopedics and Rehabilitation**

Nominated by Caleb Iehl, Samuel Ahrenholz, Christian VandeLune, and Tutku Tazegul, M2s

### Student Research Awards - Foundation

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

**Fiona Armstrong-Pavlik, M2                      ORAL**

*Title: "Hemodialysis and Surgical Applications of a Povidone-Iodine Nasal Decolonization Strategy"*

Mentor: Marin Schweizer, Internal Medicine

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

**Chandni Desai, M4                      POSTER**

*Title: "Prognostic and therapeutic value of the Hippo pathway, RABL6A, and p53-MDM2 axes in sarcomas"*

Mentor: Munir Tanas, Pathology

Borts Award (U of I Foundation Award)

**Jayden Bisson, M2                      POSTER**

*Title: "Combining Superoxide Dismutase Mimetics and Pharmacological Ascorbate Enhances Efficacy of Radiation Treatment in Non-Small Cell Lung Cancer"*

Mentor: Douglas R. Spitz, Radiation Oncology

Edward Heath Award (U of I Foundation Award)

**Kristy Sevcik, M3                      POSTER**

*Title: "Interferon-Mediated Protection of Keratinocytes from Ebolavirus Infection"*

Mentor: Wendy Maury, Microbiology

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

**Zach Heinzman, M2                      POSTER**

*Title: "Validation of Visual Field Results of a new Open-Source Virtual Reality Headset"*

Mentor: Michael Wall, Neurology

Excellence in Global Health Programs Research Award

**Patrick Schwartzhoff, M2                      ORAL**

*Title: "Using ELISA and IFAT to determine exposure to Anaplasma spp. in Natal, Brazil"*

Mentor: Christine Petersen, Epidemiology

## Student Research Awards - Departmental

Margaret V. Lunsford Award for Research in Anesthesia

**Carl Skoog, M2**                      **POSTER**

*Title: "Relationship Between Anesthetic Type and Fetal Outcomes Following Emergent (Grade 3) Cesarean Delivery"*

Mentor: Unyime Ituk, Anesthesia

Excellence in Anesthesia Research

**Alex Rier, M4**                      **ORAL**

*Title: "Impact of High Spinal Anesthesia Technique on Fast-Track Strategy in Pediatric Cardiac Surgery: A Retrospective Study"*

Mentor: Satoshi Hanada, Anesthesia

Arthur A. Spector Award in Basic Biomedical Research

**Dana Soukup, M2**                      **POSTER**

*Title: "Characterization of the efficiency of DAF in regulating nephritic factor stabilized complement convertases in patients with C3 Glomerulopathy"*

Mentor: Carla Nester, Pediatrics

Nicholas P. Rossi Award for Cardiothoracic Surgery Research

**Kelsey Kolasa, M2**                      **ORAL**

*Title: "Flow cytometric analysis of peripheral regulatory T cell abundance in ferret tracheal graft transplants"*

Mentor: Kalpaj Parekh, Cardiothoracic Surgery

Excellence in Dermatology Research

**Ananya Munjal, M3**                      **POSTER**

*Title: "COVID-19 Related Delays in Treatment of Melanoma"*

Mentor: Jennifer Powers, Dermatology

Excellence in Emergency Medicine Research

**Lisa Bell, M4**                      **ORAL**

*Title: "Impact and Utilization of the ED Chest Pain Guideline: Assessing provider attitudes regarding a newly implemented diagnostic algorithm for chest pain"*

Mentor: Paul Van Heukelom, Emergency Medicine

Excellence in Family Medicine Research

**Austin Wisnousky, M2**                      **POSTER**

*Title: "Treatment of Low Back Pain in Family Medicine and Internal Medicine"*

Mentor: Barcey Levy, Family Medicine

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

**Anuradha Gore, M2**                      **POSTER**

*Title: "Prolapse, Pelvic Pain and Pelvic Floor Muscle Dysfunction"*

Mentor: Catherine Bradley, Obstetrics & Gynecology

John Stokes Award for Research in Internal Medicine

**Alec Hanson, M1**                      **POSTER**

*Title: "Gathering Contact Network Data to Inform Interventions Designed to Decrease the Spread of COVID-19 in Healthcare Facilities"*

Mentor: Philip Polgreen, Internal Medicine

Excellence in Internal Medicine Research

**Tim Davie, M2**                      **POSTER**

*Title: "Renal sodium wasting in CF hemizygous mice"*

Mentor: Jonathan Nizar, Internal Medicine

Excellence in Internal Medicine Research

**Ben Linden, M2**                      **ORAL**

*Title: "Characterizing the Role of Diet Composition on the Development of Obesity and Metabolic Syndrome"*

Mentor: Mohamad Mokadem, Internal Medicine

William Johnson Award for Research in Microbiology and Immunology

**Levi Doyle, M1G**                      **POSTER**

*Title: "Mechanism of GRB2 Nuclear Localization in T Cells"*

Mentor: Jon Houtman, Microbiology

Research Excellence in Molecular Physiology and Biophysics

**Claire Boettcher, M2**                      **ORAL**

*Title: "Intersectional labeling of CGRP receptor sites in the mouse brain"*

Mentor: Andrew Russo, Molecular Physiology & Biophysics

Excellence in Basic Neuroscience Research

**Molly Larson, M1G**                      **POSTER**

*Title: "Seizure susceptibility, post-ictal breathing, and death in a mouse model of amyloidopathy."*

Mentor: Gordon Buchanan, Neurology

Excellence in Clinical Neuroscience Research

**Anthony Piscopo, M2**                      **ORAL**

*Title: "Intra-Arterial Encephalography from Acutely Implanted Aneurysm Embolization Device in Awake Humans"*

Mentor: David Hasan, Neurosurgery

Excellence in Translational Neuroscience Research

**Ariel Roghair, M2**                      **POSTER**

*Title: "The role of type I interferon signaling in mice following a model of traumatic brain injury"*

Mentor: Elizabeth Newell, Pediatrics

Excellence in Clinical Research in Obstetrics & Gynecology

**Maya Altemeier, M2**                      **POSTER**

*Title: "Rural or Micropolitan Perceptions and Beliefs on Perinatal Mood Disorders"*

Mentor: Stephanie Radke, Obstetrics & Gynecology

Excellence in Obstetrics & Gynecology Research

**Devin Hedlund, M4**                      **ORAL**

*Title: "First Trimester Human Plasma and Urine Endothelin-1 Predicts Development of Hypertensive Diseases of Pregnancy"*

Mentor: Mark Santillan, Obstetrics & Gynecology

Thomas A. Weingeist Award in Ophthalmology

**Smrithi Mani, M2**                      **ORAL**

*Title: "Sympathetic nervous system modulation of vascular supply to the eye"*

Mentor: Randy H. Kardon, Ophthalmology & Visual Sciences

William E. Scott Research Award in Ophthalmology

**Shana Liu, M1**                      **POSTER**

*Title: "Exomic Analysis of a Pedigree with Primary Open-Angle Glaucoma"*

Mentor: John Fingert, Ophthalmology & Visual Sciences

Hansjoerg E. Kolder Award for Ophthalmology Research

**Josh Hagedorn, M3**                      **POSTER**

*Title: "Electroretinogram Abnormalities in Patients with Dystroglycanopathies"*

Mentor: Arlene Drack, Ophthalmology & Visual Sciences

Ignasio V. Ponseti Prize in Orthopaedic Research

**Matt Van Engen, M2**                      **ORAL**

*Title: "Functional Outcomes and Patient Reported Outcomes after Successful DAIR for Periprosthetic Joint Infection of Total Knee Arthroplasty"*

Mentor: Nicolas Noiseux, Orthopaedics and Rehabilitation

Research Excellence in Orthopaedics

**Tutku Tazegul, M2**                      **ORAL**

*Title: "Quantifying ankle arthritis using a 3D Hounsfield Unit (HU) weight-bearing computed tomography (WBCT) algorithm"*

Mentor: Cesar de Cesar Netto, Orthopaedics and Rehabilitation

Excellence in Otolaryngology Research

**Peter Eckard, M2**                      **POSTER**

*Title: "Dexamethasone Eluting Arrays suppress Foreign Body Response following Cochlear Implantation"*

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

Richard G. Lynch Award for Excellence in Pathology Research

**Zack Fleishhacker, M3**                      **POSTER**

*Title: "Impact of Interfacing Near Point of Care Clinical Chemistry and Hematology Analyzers at Urgent Care Clinics at an Academic Health System"*

Mentor: Matthew Krasowski, Pathology

Richard G. Lynch Award for Excellence in Pathology Research

**Peter Sanchez, M2**                      **POSTER**

*Title: "A Peripheral Compressive Neuropathy Model to Visualize Pathology at the Neuromuscular Junction"*

Mentor: Joseph Buckwalter V, Orthopaedics and Rehabilitation

Excellence in Pediatric Basic Science Research

**Kyle Jackson, M2**                      **POSTER**

*Title: "Evaluating the Disease-Modifying Effects of Naltrexone on the Development of Post-Traumatic Epilepsy using a Novel, Automated EEG Analysis Algorithm"*

Mentor: Alexander Bassuk, Pediatrics

Excellence in Pediatric Clinical Research

**Olivia Snyder, MS3**                      **POSTER**

*Title: "Correlating Mental Health Disorders with Bleeding Rates in Hemophilia"*

Mentor: Janice Staber, Pediatrics

Excellence in Neuroscience and Pharmacology Research

**Rishi Patel, M1**                      **POSTER**

*Title: "Volumetric Analysis of Unruptured Intracranial Aneurysms Using Magnetic Resonance Angiography"*

Mentor: Edgar Samaniego, Neurology

George Winokur Research Award in Psychiatry

**Hannah Erlbacher, M2**                      **ORAL**

*Title: "The role of antioxidants in reducing prenatal-stress-linked changes in adult offspring microglia morphology"*

Mentor: Hanna Stevens, Psychiatry

Bob Robinson Research Award in Psychiatry

**Sanika Thukral, M2**                      **POSTER**

*Title: "Maternal Characteristics in a Prospective Study on the Impact of Depression on Infant Heart Development"*

Mentor: Sarah Haskell, Pediatrics

Lauretta Bender Research Award in Psychiatry

**Rebecca Wen, M2**                      **POSTER**

*Title: "Assessing cognitive performance in bipolar disorder and effects of cerebellar TMS"*

Mentor: Nicholas Trapp, Psychiatry

Jason Martin Medical Student Research Award in Radiology

**Emily Fuller, M2**                      **POSTER**

*Title: "The Factors Associated with Tissue Infarction Following Thrombectomy for Acute Ischemic Stroke"*

Mentor: Colin Derdeyn, Radiology

Larry W. Oberley Award in Radiation Oncology

**John Henrich, M4**                      **POSTER**

*Title: "NSCLC Patients' Therapeutic Response to Pharmacological Ascorbate is Correlated with Markers of Oxidative Stress"*

Mentor: Douglas R. Spitz, Radiation Oncology

Kimberly Ephgrave Medical Student Award for Research in Surgery

**Yutao Su, M2**                      **POSTER**

*Title: "IRG1 potentially alters CMP-001 treatment anti-tumor microenvironment"*

Mentor: Carlos Chan, Surgery

Excellence in Urology Research

**Mala Sharma, M2**                      **POSTER**

*Title: "Virtual and Innovative Personalized Platform for Improving Glycemic Outcomes"*

Mentor: Amy Pearlman, Urology

Carver College of Medicine Outstanding Virtual Platform Presentation

**Megan Sinik, M2**                      **Virtual-ORAL**

*Title: "Development of Shigella spp. Soil Recovery Protocol"*

Mentor: Kelly Baker, Occupational and Environmental Health