

## Poster Presentation Winners

### Cancer

**First Place:** Garrett Brinkley, GS2, MSTP

**Title:** Oncometabolite L-2 Hydroxyglutarate Creates a Metabolic Liability in RCC by Suppressing the Serine and Glycine Starvation Response

**Mentor:** Sunil Sudarshan - Urology

**Second Place:** Emily Hayward, MS2

**Title:** An emerging role for the bone marrow stroma in acute myeloid leukemia (AML)

**Mentor:** Rob Welner - Hematology & Oncology

**Third Place:** Zachary Gentry, MS2

**Title:** Absence of Disparity in Surgical Treatment of Obese Melanoma Patients at UAB

**Mentor:** Thomas Wang - Surgical Oncology

### Cardiovascular and Trauma

**First Place:** Mark Pepin, GS3, MSTP

**Title:** Etiology-Dependent Epigenetic Reprogramming Occurs in Human Heart Failure

**Mentor:** Adam Wende - Pathology

**Second Place:** Taylor Jordan, MS2

**Title:** The Utility of three iPhone Pulse Oximetry Apps: A Comparison with Standard Pulse Oximetry Measurement in the Emergency Department with Implications for Use in an Austere Environment

**Mentor:** Walter Schradling - Emergency Medicine

**Third Place:** Asher Krell, GS1, MSTP

**Title:** An Inducible Cyclin D2 Overexpression Cardiomyocyte Patch for Epicardial Repair Following Myocardial Infarction

**Mentor:** Jianyi Zhang - Biomedical Engineering

### Education

**First Place:** Wilson Alley, MS4

**Title:** Medical Students and Transgender Patients: a Needs Assessment Survey for UASOM Curriculum

**Mentor:** Shawn Galin - Medicine

**Second Place:** Meg Ingram, MS3

**Title:** The Characteristics that Set Apart an Honors Student in the Internal Medicine Clerkship

**Mentor:** Carlos Estrada - General Internal Medicine

### Endocrine and Metabolic Disease

**First Place:** Alex Dombrowsky, MS2

**Title:** Why is Hyperparathyroidism Under-diagnosed and Under-treated in Older Adults?

**Mentor:** Courtney Balentine - Surgery

**Second Place:** Graham Skelton, MS2

**Title:** Effects of (PVPON-TA) encapsulation of islets on immunoprotection and vascularization

**Mentor:** Shawn Galin - Medicine

### Gastrointestinal-Renal

**First Place:** John Pounders, MS2

**Title:** The effect of dietary sodium-to-potassium and African American race on arterial stiffness

**Mentor:** Dr. Eric Judd - Division of Nephrology, Department of Medicine

### Genetics and Bioinformatics

**First Place:** Kellie Mitchell, MS2

**Title:** PCSK9 Loss-of-function Variants and Risk of Infection and Sepsis in the Reasons for Geographic And Racial Differences in Stroke (REGARDS) Cohort

**Mentor:** Henry Wang - Emergency Medicine

### Immunology and Hematology

**First Place:** Leah Schoel, MS2

**Title:** Genetically engineered pigs as a source for clinical red blood cell transfusion

**Mentor:** David Cooper – Surgery, Transplantation

**Second Place:** Ryan McMonigle, GS1, MSTP

**Title:** Regulation of Transcription Factor Foxp1 in T Follicular Helper cell Differentiation During Influenza Infection

**Mentor:** Hui Hu - Microbiology

**Third Place:** Jacob Files, MS2, MSTP

**Title:** Assessing CD8 Polyfunctionality in HVTN502 Recipients Receiving Pre-Adapted and Non-Adapted Vaccines

**Mentor:** Paul Goepfert - Medicine

### Infectious Diseases

**First Place:** Sally Harrison, MS2

**Title:** Evaluation of the Cumulative Burden of Chlamydia trachomatis Infection in Females at an Adolescent Medicine Clinic

**Mentor:** William Geisler - Infectious Diseases

**Second Place:** Winston Joe, MS2

**Title:** Reverse Syphilis Screening Algorithm Fails to Demonstrate Cost Effectiveness in Persons Living with HIV

**Mentor:** Ellen Eaton-Infectious Diseases

**Third Place:** Alexandra Fry, MS2

**Mentor:** Peter Pappas - Infectious Diseases

### Neuroscience and the Brain

**First Place:** James Bryant, MS2, MSTP

**Title:** Ketamine induced NMDA-receptor blockade effects on regional cerebral blood in healthy volunteers

**Mentor:** Nina Kraguljac, Psych - Behavioral Neurobiology

**Second Place:** Hunter Dean, MS2

**Title:** Peripheral Monocyte Entry is Required for Alpha-Synuclein Induced Inflammation and Neurodegeneration in a Model of Parkinson Disease

**Mentor:** Ashley Harms - Neurology

**Third Place:** Ashleigh Irwin, MS2, MSTP

**Title:** Short latency cortical potentials elicited by DBS for movement disorders: an electrocorticography study

**Mentor:** Harrison Walker – Neurology

## Poster Presentation Winners

### Other

**First Place:** Shreya Kashyap, MS2, MSTP  
**Mentor:** Dr. Jonathan McConathy - Nuclear Medicine

**Second Place:** Muhan Hu, GS3, MSTP  
**The DAF-7/ TGF $\beta$  Cascade Affects Prostaglandin Metabolism, Sperm Guidance, And Sperm Gene Expression In The Adult Hermaphrodite Gonad**  
**Mentor:** Dr. Michael Miller – CDIB

**Third Place:** Natasha Mehra, MS2  
**Daily Immune Monitoring to Identify Peripheral Biomarkers in Chronic Fatigue Syndrome**  
**Mentor:** Dr. Jarred Younger – Psychology

### Public Health Outcomes and Quality Improvement

**First Place:** Kristina Tymes-Wilbekin, MS2, MSTP  
**Modifiers That Influence Women’s Choice To Use The NuvaRing: A Systematic Review**  
**Mentor:** Dr. Jeanne Marrazzo - Infectious Diseases

**Second Place:** Naveed Farrukh, GS1  
**Patient Perspectives on Post-Hospitalization Health Services and Readmissions**  
**Mentor:** Dr. Kierstin Kennedy - Hospitalist Services

**Third Place:** Rebecca Durón, MS4  
**A Systematic Review of Missed HIV Primary Care Visits and Mortality**  
**Mentor:** Dr. Michael Mugavero - Infectious Diseases

### Pulmonary

Jacelyn E. Peabody, GS1, MSTP  
**Mucus Matters: Mucociliary Physiology in a Bleomycin-Induced Pulmonary Fibrosis Ferret**  
**Mentor:** Dr. Steve Rowe - Department of Medicine

**Second Place:** Taylor Bono, MS2  
**Evaluation of Apremilast as a novel pharmacologic approach in Cystic Fibrosis**  
**Mentor:** Dr. Vamsee Raju - Cystic Fibrosis Research Center

### Surgery and Anesthesiology

**First Place:** Sawyer Mullen, MS2  
**The Association Between Marijuana Use and In-Hospital Mortality Following Orthopedic Procedures**  
**Mentor:** Dr. Sameer Naranje - Orthopedic Surgery

**Second Place:** Alan Hsu, MS2  
**Preoperative Hematocrit On Early Prosthetic Joint Infection And Deep Venous Thrombosis Rates In Primary Total Hip Arthroplasty: A Database Study**  
**Mentor:** Dr. Sameer Naranje - Orthopedics

**Third Place:** Joseph Robin, MS2  
**Rabbit model of joint contracture for evaluating arthrofibrosis after total knee arthroplasty (2017)**  
**Mentor:** Dr. Matthew Abdel - Mayo Clinic Department of Orthopedic Surgery

\*The 2017 MSR Abstract Book lists all presentations