

Washington University School of Medicine  
Department of Pediatrics Research Retreat  
April 14, 2023  
*Live! By Loews Hotel, 2<sup>nd</sup> Floor*

8:30 Check-in and Badge/Ticket Pick-up – *Redbirds Room*

9:00 Poster Viewing – *Cardinals A, Home Plate, and Stadium Rooms*

10:00 Welcome – *Cardinals B/C*  
Gary Silverman, MD, PhD

Platform 1: Trainee Clinical/Translational and Health Services Research – *Cardinals B/C*

Moderator: Stephanie Fritz, MD, MSCI

10:05 Stephanie Cabler, MD  
*Viral DNAemia and Herpesvirus Seropositivity Are Associated with Mortality in Pediatric Patients with Severe Sepsis*

10:20 Laura Duckworth, MD  
*Quantification of Enteric Dysfunction in Cystic Fibrosis: Inter- and Intra-Individual Variability*

10:35 Shilpa Rampey Venkata Naga, MD  
*OncoWhiz: Online Educational Game Increases Knowledge and Decreases Anxiety in Caregivers of Pediatric Oncology Patients*

10:50 Louise Malburg, MD  
*Identifying Delays to Pelvic Ultrasound in the Pediatric Emergency Department*

11:05 Break

Keynote Address – *Cardinals B/C*

11:15 Andrew Anzalone, MD, PhD  
*Prime Genomic Editing for Therapeutic Applications*

12:10 Buffet Lunch and Networking – 2<sup>nd</sup> Floor and Patio

1:00 Poster Session – *Cardinals A, Home Plate, and Stadium Rooms*

2:00 Break

Platform 2: Early Faculty Research – *Cardinals B/C*

Moderator: Laura Schuettpeitz, MD, PhD

2:15 Zachary Vesoulis, MD  
*Machine Learning Identifies Racial, Economic, and Health Factors Associated with Death or Neurodevelopmental Impairment in Infants with Single-Ventricle Congenital Heart Disease*

2:35 Rene Roy, MD, PhD  
*Catecholamine Signaling Alters Host Responses to Staphylococcus aureus Skin Infection*

2:55 Stephen Stone, MD  
*Adipose Tissue Modeling of FGF21 Signaling Variants and Their Effect on FGF21-Mediated Insulin Action*

3:15 Suong Nguyen, MD, PhD  
*Heme-Laden Histidine-Rich Protein II Nanoparticles Disrupt Microvasculature in Severe Malaria Infection*

3:35 Break

Platform 3: Trainee Basic Research – *Cardinals B/C*

Moderator: Julie Bubeck Wardenburg, MD, PhD

3:45 Alex Crider, MD  
*Disrupted Luteinizing Hormone / Chorionic Gonadotropin Receptor Expression of Developing Neurons and Brain Results in a Pro-Degenerative Phenotype*

4:00 Keigo Takahashi  
*Spontaneous Seizures Associated with Cortical Interneuron Loss in Cln2R207X Mice Are Ameliorated Via Gene Therapy*

4:15 Jerome Molleston, MD, PhD  
*Early-Life Sequential Viral Infections in Mice Lead to Increased Inflammation and Experimental Colitis Severity*

4:30 Ellen Schill, MD, PhD  
*Early-Life Antibiotic Exposures Inhibit Postnatal Enteric Nervous System Development*

4:45 Adjournment



**Andrew Anzalone, MD, PhD**

*Scientific Co-Founder and Head, Prime Editing Platform  
Prime Medicine, Inc.  
Cambridge, MA*

Andrew Anzalone is scientific co-founder and head of the prime editing platform at Prime Medicine, a biotechnology company focused on advancing next-generation precision gene editing approaches for human therapeutic applications. Prior to joining Prime Medicine, Dr. Anzalone was a Jane Coffin Childs Memorial Fund Postdoctoral Fellow in the laboratory of David R. Liu at the Broad Institute of Harvard and MIT. In the Liu laboratory, Dr. Anzalone pioneered the development of prime editing, a novel CRISPR-based search-and-replace gene editing technology that has the potential to correct a large fraction of known human genetic variants associated with disease.

Dr. Anzalone completed his M.D. and Ph.D. training at Columbia University as part of the Medical Scientist Training Program, and performed his thesis research in Virginia W. Cornish's laboratory in the areas of organic chemistry, chemical biology, and synthetic biology. Dr. Anzalone earned his Sc.B. degree in chemistry from Brown University.

**Friday, April 14, 2023**

**9:00 am – 4:45 pm**

**Live! By Loews Hotel, St. Louis**

**Keynote Address**

**Andrew Anzalone, MD, PhD**



**“Prime Genomic Editing for  
Therapeutic Applications”**

**11:15 am**

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**Cardinals vs. Pirates**

**7:15 pm**

**Busch Stadium**