



2025 PATHWAY TO SCIENTISTS UNDERGRADUATE RESEARCH PROGRAM

End-of-Spring Semester Symposium

2:30 PM (US Eastern Time), May 5th, 2025

(NJMS Cancer Center G1196, 205 S Orange Ave, Newark, NJ 07103)

Oral Presentations:

- 1. Antimalarial Drug Efficacy Across *Plasmodium falciparum* Blood Stages**
Precious Olukayode
PURNIMA BHANOT LAB
- 2. Studying the Behavior of Homologous Recombination (HR) at the Subtelomere Region of *Saccharomyces Cerevisiae***
Rita Hanry
KATSUNORI SUGIMOTO LAB
- 3. Changes in Central Metabolic Pathways in TB**
Victor Chima Agbara
LANBO SHI LAB
- 4. Expression of recombinant *Treponema pallidum* adhesin TP0136 by affinity chromatography**
Arooj Yasin
NIKHAT PARVEEN LAB
- 5. A Comprehensive Review of Gallbladder Cancer and the connection to the gut microbiota**

Kendra Spencer
JOEL FREUNDLICH LAB

6. Evaluating LIF Nanoparticles as a Treatment for Mild Traumatic Brain Injuries

Chinmay Bapat
STEVEN LEVISON LAB

7. Inferring Transcription Factor Activity Networks to Understand Drug Response in Mycobacterium tuberculosis

Edson Petry
JASON YANG LAB

8. Role of p4-ATPases in Membrane Phospholipid Translocation In Cryptococcus neoformans

Sameer Mittal
CHAOYANG XUE LAB

9. Investigating CCL14 expression in human IBD biopsies

EMILY NAVAL
NAN GAO LAB

10. Bridging the Barrier: Tight Junction Proteins' Involvement in Fibrinogen-Driven Cerebral Amyloid Angiopathy

Khushi Garg
HYUNG AHN LAB

11. Exercise and the Striatum

Madison Umlauf
MIRIAM BOCARSLY LAB

Poster Presentations:

12. Cancer Outcomes in a Long-Term Opioid Use Disorder Cohort in New Jersey

Daniel Ramge
DANIEL ROSENBLUM & STANLEY WEISS LAB

13. Mild malaria provides partial immunity to severe malaria

Laura Oyuela
ROBIN STEPHENS LAB

14. From Lung to Cell Line: Mapping the IFN Response in Antifungal Immunity

Kelly Herrera Villavicencio
AMARILIZ RIVERA LAB