

Systems Medicine Student Research Symposium

2023 April 19 @ 16:30 • Pulmonary Conference Room (M-449)

- 16:30 *Opening remarks*
Reinhard Laubenbacher, Director, Laboratory for Systems Medicine
- 16:40 A Ternary Network Simulating Low Shear Stress and Hypoxic Cell Signaling Pathways in Pulmonary Endothelial Cells
Sharanya Chatterjee, Freedom High School
Isabella Delbakhsh, Lake Highlands High School
Mentors: Henrique de Assis Lopes Ribeiro and Melody Walker
- 16:50 Localized Prediction to Interpolate between Case-Based Reasoning and Machine Learning
Xinyi Zhang, College of Liberal Arts and Sciences
Collaborator: Tara Hashemian
Mentor: Jason Cory Brunson
- 17:00 A Boolean Gene Regulatory Network in Airway Epithelial Cells Infected with SARS-Coronavirus: Construction and Validation
Achyudhan Kutuva, Department of Microbiology & Department of Statistics
Mentor: Henrique de Assis Lopes Ribeiro
- 17:10 The Utility of the Functional Route Modulus for Boolean Network Analysis
Igor Sokolov, Department of Mathematics
Collaborator: Luis Sordo Vieira
Mentor: Jason Cory Brunson
- 17:20 Boolean Networks and Dynamic Modularity
Hemangi Patel, Orlando Science School
Samyukta Kandarpa, Orlando Science School
Mentor: Matthew Wheeler
- 17:30 Modeling Bleomycin Induced Pulmonary Fibrosis
Sofia John, Department of Statistics
Mentors: Luis Sordo Vieira and Matthew Wheeler
- 17:40 Sarcoidosis Modeling Project: Striving for Solutions to Sarcoidosis
Chhavi Pokharna, Orlando Science High School
Bhavya Kambara, Land O' Lakes High School
Collaborator: Divya Patel
Mentor: Helen Moore
- 17:50 Racial Ethnic Disparities in Post-Lung Transplant Outcomes
Abhinav Penmetcha, Department of Biology
Omolola Suleiman, Department of Biology
Collaborator: Divya Patel
Mentor: Jason Cory Brunson
- 18:00 *Closing remarks*
Helen Moore, Associate Professor, Laboratory for Systems Medicine
- 18:10 *Open discussion and Reception*