



Early College and STEM Scholars 2022 Honors Research Colloquium

September 9, 2022, 12:30 – 3:30 pm
Globe Hall – Montgomery College, Germantown Campus

- 12:30 pm **Poster Session**
- 1:00 pm **Opening Remarks**
VPP Margaret Latimer, Dr. Lucy Laufer, & Dr. Steve Wheatley
- 1:10 pm **“Aging Through Time”**
David Soussana
Early College Honors, Biological Sciences, GT
- 1:30 pm **“Forest Survey at the Germantown Campus”**
Vladimir Alvarado
STEM Scholars, Civil & Biochemical Engineering, GT
- 1:50 pm **“Now You See It, Now You Don’t: Thermodynamic Properties of pH Indicators”**
Inci Alemdaroglu & Eislym Suarez Villavicencio
Early College Honors, Biological Sciences, GT &
STEM Scholars, Biological Sciences TP/SS
- 2:10 pm **“CRISPR-Cas9 Gene Editing to Treat Human Disease”**
Isabella Ahn & Daniel Chin
Early College Honors, Biological Sciences, GT
- 2:30 pm **“Fractals and Dynamics”**
Shani Glassberg
Early College Honors, Biotechnology
- 2:50 pm **“CRISPR-Cas9 Gene Editing to Create Rodent Models for Human Disorders”**
Phoenix Bryant
Early College Honors, Biological Sciences, TP/SS
- 3:10 pm **Concluding Remarks**
Dr. Linda Jurata
- 3:15 pm **Additional time to view posters**

Faculty mentors: Professors Jojo Dong (Math, GT), Jennifer Capparella (Biological Sciences, GT), Kiersten Newtoff (Biological Sciences, GT), Tom Chen (Chemistry, GT), Steve Wheatley (Math, GT), and Linda Jurata (Biological Sciences, GT)

Posters:
Globe Hall – Upper Lobby
12:30 – 1:00 pm & 3:15 – 3:30 pm

Poster Title	Student	Honors Program	Degree Program	Campus	Mentor
Pylos Game Theory	Sepand Jahrominejad	STEM Scholars	Computer Science	GT	Dr. Jojo Dong
	Hana Fatima Shaikh	Early College Honors	Computer Science	GT	
	Meba Tadesse	STEM Scholars	Computer Science	GT	
Determining the Thermodynamic Properties of Thymolphthalein	Inci Alemdaroglu	Early College Honors	Biological Sciences	GT	Dr. Tom Chen
Using UV-Vis to Determine Thermodynamic Values of Phenolphthalein	Eislym Suarez Villavicencio	STEM Scholars	Biological Sciences	TP/SS	
CRISPR Strategy to Correct KRT82 Mutations to Treat Alopecia Areata	Isabella Ahn	Early College Honors	Biological Sciences	GT	Dr. Linda Jurata
CRISPR Guide RNA Designed to Knock Out CTLA4 in CAR T Cells to Treat Non-Small-Cell Lung Cancer	Daniel Chin	Early College Honors	Biological Sciences	GT	
Creating a sgRNA to Implement CRISPRoff in FKBP5 Intron 7 in Rats	Phoenix Bryant	Early College Honors	Biological Sciences	TP/SS	
CRISPR-Cas9: Producing a Mouse Model of a 34-bp Heterozygous Deletion Mutation of the TMEM98 Gene	Famous Yamoah	Renaissance Scholars	Biological Sciences	TP/SS	