



# Fall 2025 Undergraduate Research Presentations

Tuesday, Dec 9

Horizon Hall 1008

10:00 AM- Oral Presentations

10:45-11:30 AM- Posters

Department Awards @ 11

All are welcome!

Orchi Ahmed & Sophia Goyanko (Bishop)	Talk	Chemometrics of sample prep and mass spec processing of UV, MB, and UVMB treated mouse plasma
Anna Chung (Yu)	Talk	Tuning the Photoelectrochemical Properties of ReS <sub>2</sub> via van der Waals Heterostructures
Alisha Hassan (Couch)	Poster	Clinical Breathomics: Characterizing Multimodal Breath Signatures Using Standardized TD-GC-MS for Real-Time Diagnosis
Anh Nguyen (Dilek)	Poster	Illuminating Oxidative Stress: Small-Molecule Fluorescent Probes for Carbonyl Biomarker Imaging
Grace Hwang (Couch)	Poster	Thermal Desorption GC-MS Breathomics for Profiling Dynamic Eubiosis
Kayla Ngo (Tan)	Poster	Synthesis of Bi <sub>2</sub> FeNbO <sub>7</sub> as a potential photocatalyst
Kiara McKellar (Paige)	Poster	Chemical Reduction of Nylon-6 for Biomolecule Functionalization
Megan Long (Paige)	Poster	His-tagged Leukotriene-A <sub>4</sub> Hydrolase (LTA <sub>4</sub> H) Purification with Cobalt and Nickel Affinity Chromatography
Thida Samay (Yu)	Poster	pH-dependent Electrochemistry of Bifunctional Organic Electrode Material in Aqueous Electrolyte
Zainab Khan (Couch)	Poster	VOC Profiling in Exhaled Breath: Analysis of BAIBA, Undecane, Tridecane, and Ethanedial.