Oral Presentation Session 2

Nobel 201

- 3:30 **Katie Aney** KPC cells engineered with GFP to study the T cell response to pancreatic cancer
- 3:45 Haley Moran The Iron Binding Chemistry of Metalloprotein II and Myohemerythrin
- 4:00 Elise Le Boulicaut Performance Studies of the Transition Radiation Tracker at the Large Hadron Collider ATLAS Experiment.

Nobel 222

- 3:30 Ester Archer & Thomas Lauer HPLC Flow Rate Modulation
- 3:45 Xiaoqi Yu Decomposed Cosmic Velocity Field in f(R) Gravity
- 4:00 Halie Ostberg Identifying genes involved in *Drosophila* ovulation through genetic screens

Full abstracts and additional authors are available at: https://gustavus.edu/chemistry/research/SummerResearchSymp.php

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Research Symposium

Fall

Gustavus 📽

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Oral Presentations Session 1 Nobel 201

1:30 Erica Power GOT DRUGS? A summer spent in the Mayo Toxicology lab

1:45 Kelly NeubauerInverse magneto-caloric effect at the spin reorientation of Fe₂B alloys doped with Co

2:00 Brittany Courteau

Determination of the Kinetic Expression of the Photodegradation of the Herbicide Dicamba in Aqueous Solutions

2:15 Connor Balfany

Domesticated Atriplex hortensis, Protein Isolation and Quality Assessment

Nobel 222

1:30 **Carly Miller & Ben Madigan** Analyzing Monoclonal Antibodies and Host Cell Proteins Using Two-Dimensional Liquid Chromatography

1:45 McKenzie Perry & JakeWestfield

Identifying agricultural land management successes and water quality improvements at the sub-watershed scale: A case study in south-central Minnesota

2:00 Eli Larson

Simulating Elution Profiles in Two-Dimensional Liquid Chromatography: Developing an Analytical Toolbox

2:15 Kathryn Hagen

Behavioral Changes in Early Visual Areas due to Perceptual Learning

Full abstracts and additional authors are available at: https://gustavus.edu/chemistry/research/SummerResearchSymp.php

Poster Session: Nobel Hall Atrium 2:30 - 3:30 PM

Sarah Anderson & Kylee Brimsek

Ecological Assessment of a Chronosequence of Prairie Restorations

Chandra Bouma

Correlates of Basal Ganglia Perivascular Spaces in a Population Based Sample: Mayo Clinic Study of Aging

Tyler Brau

Using computer simulations to investigate the effects of Active Solvent Modulation on resolution and sensitivity in the second dimension of 2D-LC

Linh Chu

Steps Toward a Framework for the Determination of Solute Parameters using the Hydrophobic Subtraction Model of Selectivity in Liquid Chromatography

Sara Graves

Predictive signatures during acute *Campylobacter* enteritis for post-infection irritable bowel syndrome.

Brian Hastings

Evidence of Less Flexible Cognitive Resource Reallocation In Individuals With Multiple Sclerosis

Hayley Lhotka Improving the Aqueous Solubility of Thiomuracin GZ

Matthew Mehrkens

Ultrasonic Imaging using Refracto-Vibrometry

Abby Michels

Syntectonic Deposition of Plio-Quaternary Sediments in the Santa Rosalia Basin of Baja California Sur, Mexico

Meagan Nowariak

Creation of Reusable, High-Fidelity Heart Model to Simulate Neonatal Extracorporeal Membrane Oxygenation

Emma Santa & Abby Trouth

Using Fragment-Based Ligand Design to Inhibit PfGCN5-mediated Gene Expression

Ryan Sullivan Weekly Cycle in NEXRAD Rain Rates

Riley Thoen

Analysis of the effects of fat content on the islet isolation procedure of total pancreatectomy with islet autotransplantation (TP-IAT)