

**Posters: Biology, English, Chemistry, Independent Research 3:00-4:00PM,  
Blackwell Ballroom**

**Poster Numbers 1-15: Chemistry 302, 351, and 403 (Faculty Mentor: Dr. Sarah Porter)**

- Jamie Breunig, “The LC Determination of Capsaicin in Hot Sauces by Liquid Chromatography”
- Sarah Elsagr, “What Can Be Learned About Conjugated Molecules from Their Uv-Vis Spectra?”
- Corri Calandra, “LC Determination of Active Ingredients in Over the Counter Medications”
- Bethany Adams, “What Can Be Learned About Conjugated Molecules from Their Uv-Vis Spectra?”
- Hannah Meyls, “Can we use biological organisms as chemical sensors”
- Joshua Walker, “What determines the rate of reaction?”
- Bethany Adams, Jamie Breunig, Corri Calandra, Sarah Elsagr, Hannah Meyls, Kelsey Norton, Morgan Tasseff, Joshua Walker, “Chemistry meets art: X-ray fluorescence analysis of art from the LCVA collection”
- Zachary Morgan, “Investigating the Importance of Argon Gas Bombardment of Au(111) and Ag(111) in Nanoporous Graphene Synthesis”
- Hope Grausgruber, “Enumeration of Escherichia Coli in the James River using Thioglycolic Acid (TGA) CdSe Quantum Dots and Fluorescence Spectroscopy”
- Sarah Goetz, “Nicotine Concentration and Flavor Aldehyde Presence in Juul Device Liquids”
- Bryan Stewart, “Investigation of a two-dimensional Identification Method for Different Types of Beer via Mathematically Treated UV-Vis Spectra Data Sets”

**Poster Numbers 16 – 17 (Electronic): English 400 (Faculty Mentor: Dr. Elif Guler)**

- Charla Faulkner, Abbie Preston, Tracy Davis, “Project Flashlight”
- Sarine Thomas, Jordan Clark, Kyle Sorrell, “Pollution Patrol”

**Poster Numbers 18 - 45: Biology 488 (Faculty Mentor: Dr. Amorette Barber)**

- Kathryn Kosiorek, “Double Gene Knockout of PDX-1 and HNF1B Leads to the Possibility of a Novel Gene Therapy for Patients with Type 1 Diabetes”

- Cecilie Elliott, “CCL21 Protein Leads to Advancements in Understanding Lung Transplant Rejection”
- Murriel Grimes, “Punicic acid as a possible supplemental treatment of adolescent Type I Diabetes”
- Taylor Clements, “The role of plastic debris found in the loggerhead sea turtle’s digestive tract and how it effects the reproduction survival rate”
- Emery Chittenden, “The Role of Genome Mapping in Diagnosing Bipolar Disorder”
- Amanda Moses, “Curing Multiple Sclerosis by Genetically Engineering Oligodendrocytes and treating them with Chemotherapy”
- Andrea Soles, “The Connection between Emotional Stress and Developing Grave’s Disease”
- Zack Long, “Identifying the Outcomes of Colloidal Silver Nanoparticles and their Mechanics of Action against the Lysosomes of Gram Positive Bacteria”
- Uzma Gunter, “The Use of HeLa derived telomerase on NK Cells in Treatment of Ovarian Cancer”
- Lyndi Earnshaw, “Postural Orthostatic Tachycardia Syndrome in relation to anxiety and cognitive impairments”
- Juliana Gordon, “Long-term aerobic exercise can enhance cognition and delay the onset of Alzheimer's disease”
- Elle Richardson, “Does Beer Enhance T cells to kill Leukemia?”
- Hastings Williamson, “CRISPR/CAS9 Experiments On Human Sperm Cells: Carriers of the Cystic Fibrosis Delta F508 Mutation”
- Colin Dominick, “The Comparative role of Tail Feathers in American Goldfinches”
- Christina Bell, “Restoring the Population of Keystone Species in the Chesapeake Bay: How the Preservation of Submerged Aquatic Vegetation Can Improve the Blue Crab Population”
- Rana Haboush, “Successfulness of live capture eradication efforts of the Golden Eagle on the Channel Island Fox”
- Ted Gutches, “Von Willebrand Disease: the viability of a technology-based diagnosis modality”
- Caroline Carter, “Microplastic biomagnification within detritovores alters fecundity and survivorship”

- Rex Liggon, “Observing the Cooperation of Varroa Destructor and DNA Virus AmFV in the Onset of Colony Collapse Disorder in Emerging *Apis mellifera*”
- Meagan St John, “Enhancing a Hepatitis C virus vaccine with Toll-like receptor 3 agonist in a mouse model”
- Sandra Ghali, “Enhancement of Macrophage Affinity in Response to Antibiotic-Resistant *N. gonorrhoea* Infection”
- Angelica Romero, “Modifying the effects of AB40 and AB42 proteins in patients with Alzheimer’s disease”
- Tiffany Yun, “The Effects of Pramipexole and Carbidopa-levodopa on Blocking Abnormal Activity in Gene LRRK2 Which Causes Loss of Dopaminergic Neurons in Parkinson”
- Erica Harris, “The role of genetics with alcoholism and its effects on genes ALDH2, ADH1B, and GABRB1 by causing mutations in the genome”
- Samuel Kane, “Studying the Feeding Habits of Red Snappers in the Gulf of Mexico within Artificial Reefs vs. Natural Reefs”

**Poster Numbers 46 - 60: English 362 (Faculty Mentor: Dr. David Magill)**

- Morgan Bates, “Analysis of the use of gender and bodies in the popular Netflix show, "YOU"”
- Jessie Sawyer, “Hegemonic Masculinity in the Sons of Anarchy”
- Kaitlyn Crow, “"Where's the Spunk?" Sexuality as Performance in the Netflix Original Series "Sex Education"”
- Emily Gough, “Pretty as an Insult in Rick Riordan's "The Lost Hero"”
- Summer Reardon, “Feminism and Gender in James Cameron's "Aliens"”
- Katie Kline, “"You Da Man": Performing Masculinity in Disney’s *Mulan*”
- Lauren Ashworth, “Expectations of 1950s Teen Dating in "Grease"”
- Hannah Taylor, “Cross Dressing and Gender Construction as Depicted in Visual Media”
- Amber George, “Masculinity in *Dead Poets Society*”
- Sara Holdsworth, “Views of Pregnancy in *Bird Box*”
- Samuel Hite, “Gender Roles in “*The Simpsons*””
- Leah Merone, “Feminism in *Harry Potter*”
- Glenn Spencer, “Masculine Performance”

### **Poster Numbers 61- 65: Independent Research**

- Carrie Reaver (Faculty Mentor: Dr. Bjoern Ludwar), “Symmetry as an indicator of developmental stability”
- Taylor Alvey, Cody Hyle, Brianna Cervantes (Faculty Mentor: Dr. Denis Trubitsyn), “The role of mad2 gene expression in elongation of cuboctahedral magnetosome morphology”
- Ibrahim Kante (Faculty Mentor: Dr. Phil Cantrell), “The study of precolonial kingship in Sub-Saharan Africa”
- Bailey Gadberry, Tessa Dewalt, Tabitha Lenhart (Faculty Mentor: Dr. Sujana Henkanaththegegarala), “Potential Impacts of Hurricanes on Avian Community Diversity and Composition”

### **Poster Numbers 66 - 83: English 400 (Faculty Mentor: Dr. Scott McDarmont)**

- Cameron Pelletier, “Anti-vaccine Debate”
- Essence Mitchell, “Gender Inequality in the Criminal Justice Workplace”
- Samantha Hunter, “Gender Wage Gap”
- Terika Williams, “CRISPR”
- Sarah Banks, “ASL as a Foreign Language Requirement”
- Rayven Brown, “Why Vaccines are Important”
- Cody Bell, “Youth Sport Specialization”
- Hannah Sutphin, “Fad Diets (Ketosis, Paleo, Mediterranean)”
- Brianna Reyes, ““Broken” U.S Criminal Justice System”
- Annika Cline, “Anti-Vaxxers”
- Ryan Flanagan, “Why Music Education is Important”
- Samantha Jenkins, “The Effects of Social Media on Emotions”
- Rebecca Sydnor, “The Influence of Social Media on Businesses”
- Ryan Johnson, “What types of people are drawn to Conspiracy Theories”
- Charlie Fournell-Ferrall, “The Misconceptions and Biases of Drugs and Their Effect on Society”
- Branden Pleasants, “How to start a business”
- Lauren Ratliff, “Artificial Intelligence”
- Caroline Smith, “Vaccines and Autism”