

GVSU Cell and Molecular Biology Department
Professional Science Masters, Biotechnology Internship Presentations
April 15, 2022

Schedule of presentations

11-11:15 **Victoria Johnson**

11:15-11:30 **Alexis Hoskins**

11:30-11:45 **Margo Stachnik**

11:45-12 **Austin (Matthias) Schian**

Lunch break

12:15-12:30 **Louis Walter**

12:30-12:45 **Swaitlana Shukla**

12:45-1 **Deseree Eudave**

Coffee break

1:10-1:25 **Laura Shattuck**

1:25-1:40 **Sara Sumerix**

1:40-1:55 **Megan Ulbricht**

Closing

Presenter	Title of the project	Internship Site	Supervisor	A bit about the internship site
Alexis Hoskins	Exploring ELISA Assays and Their Uses in Pharmaceutical Drug Testing at Eurofins Biopharma	Eurofins Biopharma	Dr. Ajit Zambre	Eurofins Biopharma is an international biotechnology company that specializes in pharmaceutical drug testing as a means of quality control.
Swaitlana Shukla	Expanding Techniques of growing cells in a Tissue culture laboratory.	Michigan State University	Dr. Jeremy Prokop	The Prokop lab focused on precision genomics of rare diseases and complex clinical outcomes using sequencing technologies and advanced cell culture systems.
Austin Schian	Wastewater Surveillance in GVSU Housing and Beyond	GVSU Sewer Lab	Dr. Tsou & Blackman	The Sewer Lab operating out of CHS is processing wastewater to determine the gene copy levels of SARS-CoV-2 and current variants circulating in various communities around Grand Rapids
Deseree Eudave	Preservative Efficacy Testing and Microbial Identification in Two Microbiology Labs	Function of Beauty, Grand River Aseptic Manufacturing	Sue Beaubien, Susana Villagomez	Function of Beauty is a cosmetic company that specializes in customized haircare and skincare. Grand River Aseptic Manufacturing is a contract injectable drug manufacturer focused on customer safety and product quality.
Margo Stachnik	Onboarding and Validation of Barnstead Pacific TII Water Purification System	Grand River Aseptic Manufacturing	Susana Villagomez	Grand River Aseptic Manufacturing is a contract injectable drug manufacturer focused on customer safety and product quality
Megan Ulbricht	A Comparison of Sars-CoV-2 Detection Assays	GVSU Sewer Lab, Mercy Health	Dr. Tsou and Blackman, Melissa Hanna	The GVSU Molecular Monitoring Lab extracts RNA from community wastewater to detect the presence of Sars-CoV-2. Mercy Health, part of Trinity Health, is a hospital system that serves West Michigan. The microbiology lab assists in diagnosing bacterial, viral, and parasitic infections in patients through a variety of techniques.

Louis Walter	Detection of COVID Variants in Wastewater with qPCR	GVSU- MoM	Dr. Tsou and Dr. Blackman	The Molecular Monitoring, or SEWER, lab extracts RNA from wastewater and quantifies the amount of SARS-CoV-2 present with ddPCR. qPCR is also used to determine the presence of the current Variants of Concern.
Victoria Johnson	Process Improvement of Microbiology Bioburden/Endotoxin Validation Reporting and Assessment of other Environmental Monitoring Tasks for Aseptic Processing Support	Grand River Aseptic Manufacturing	Amy Place	Grand River Aseptic Manufacturing is a contract injectable drug manufacturer focused on customer safety and product quality
Sara Sumerix				
Laura Shattuck	SARS-CoV-2 Wastewater Surveillance	GVSU- Cell and Molecular Monitoring for Health & Environment Lab	Dr. Tsou and Dr. Blackman	The Molecular Monitoring for Health & Environment Lab sample wastewater treatment plants (WWTPs) and sentinel sites located across Kent county that reflect the community level of infection.



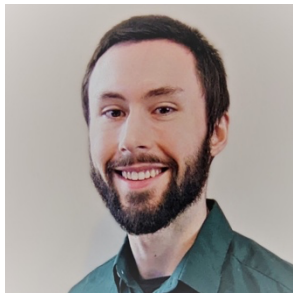
Alexis Hoskins

Alexis is interested in molecular biology and its application in biotechnology and precision medicine. She is currently working with GVSU's COVID-19 Sewer project team as a graduate research assistant. Alexis has experience with DNA/RNA extraction, various methods of PCR, immunological assays, and data analysis. She has accepted a position continuing her interests in precision medicine as a Research Associate at Advent Health in Orlando, Florida. In her free time, she loves traveling, scuba diving, fishing, and walking with her dog, Zuko.



Swaitlana Shukla

Swaitlana is looking for opportunities in molecular biology labs and mammalian cell culture, and has experience in DNA / RNA extractions, tissue culture and other lab techniques. At present, she is working with Dr. Jeremy Prokop in MSU in tissue culture lab as an intern and looking for a position as Research Technician or Research Assistant that can broaden her interests and skills in molecular biology area. She is interested in listening to music, cooking and spending time with her family.



Austin Matthias

Austin is interested in molecular biology and has experience with DNA, RNA, and protein labwork. Over the course of his graduate career, he served as a lab technician in GVSU's Sewer project and worked for small start-up company, PREEMIEr, outfitting their lab for future work. He is currently searching for a position in which he can support the generation of quality molecular biology products, whether in manufacturing, quality control, or another professional realm. Austin enjoys making music, reading of all kinds, and hiking.



Deseree Eudave

Deseree is interested in microorganisms and currently works as a Microbiologist II at Grand River Aseptic Manufacturing. She graduated with a Bachelor's degree in Behavioral Neuroscience from GVSU where she conducted research and published a paper in The Neurobiology of Stress about unhealthy diets and their link to psychological disorders. From this, she realized she enjoys writing and benchwork and began a career in quality control microbiology, maintaining safe and high-quality products in the pharma industry. In her free time, she enjoys traveling, creative writing, watching movies, and cooking.



Megan Ulbricht

Megan is currently employed as a Medical Laboratory Scientist at Mercy Health. She graduated from Northern Michigan University with a Bachelor's degree in Biology (Physiology emphasis) and an Associate of Science in Clinical Laboratory Science. Her experience involves working with DNA and RNA, lateral flow assays, various types of PCR, identification of normal and abnormal blood cells, and experience with various clinical lab tests. She plans on applying to medical school with hopes of pursuing emergency medicine as a military doctor. She currently serves in the Michigan Army National Guard and in her free time performs military funeral honors, enjoys hiking, running/exercising, and kayaking.



Victoria Johnson

Victoria is employed as a Microbiologist at Grand River Aseptic Manufacturing. She graduated with a Bachelor's degree in Biomedical Science with a minor in Chemistry from Grand Valley State University. Here, she conducted research on the effect of nonylphenols on porcine cardiovascular vessels and how it relates to estrogen and heart disease. She has plans to attend medical school where she hopes to specialize in cardiovascular surgery. She currently serves as President of the Professional Association of Graduate Scientists and is a member Omicron Delta Kappa, a national leadership organization. In her spare time, Victoria enjoys hanging out with family/friends and traveling.



Louis Walter

Louis has a wide array of interests across fields relevant to Cell and Molecular Biology which is what made this degree pathway so attractive. He is fascinated by Biotechnology because it is a vast field and harnessing the power of biological systems to perform any number of tasks is simply amazing. His undergraduate research focused on plants and he hopes to eventually end up in plant/agricultural biotechnology. His work with the Sewer Lab has given him experience with qPCR and he hopes to leverage that to secure a position in Biotechnology in the Grand Rapids or Kalamazoo areas.



Laura Shattuck

Laura feels at home working in a lab environment and is interested in combining her love of fermentation science with the techniques she learned pursuing her Masters in Cell and Molecular Biology. She has experience working with DNA and RNA, and is currently working as the Lab Supervisor for the Molecular Monitoring for Health and Environment Lab monitoring SARS-CoV-2 in Kent County. In her free time, Laura enjoys getting lost in a book, spending time with her cat and two snakes and is learning to enjoy running.