

Stephanie E Morgan

(734) 748-9406 | stephanie.morgan@med.wayne.edu

EDUCATION

Doctor of Medicine

Wayne State University School of Medicine, Detroit, MI

June 2020 – May 2024

Bachelor of Science

Major in Biological Science with Honors, *summa cum laude*

Minors in Mathematics and Public Health

Wayne State University, Detroit, MI

August 2016 – May 2020

RESEARCH EXPERIENCE

GRADUATE RESEARCH

Supervisor: Dr. Michael Petriello

November 2020 – Present

Institute of Environmental Health Sciences

Wayne State University, Detroit, MI

Awarded Medical Student Research Fellowship 2021

Per- and polyfluoroalkyl substances (PFAS) are ubiquitous chemicals used for their surfactant properties, some of which have been associated with multiple chronic diseases, including cardiometabolic disorders. Measuring cardiovascular biomarkers of disease in individuals with high exposures to PFAS could yield novel correlations that may prompt a better understanding of the mechanism of PFAS and long-term health impacts.

Manuscript

- Morgan, S., Mottaleb, M. A., Kraemer, M. P., Moser, D. K., Worley, J., Morris, A. J., & Petriello, M. C. (2023). Effect of lifestyle-based lipid lowering interventions on the relationship between circulating levels of per-and polyfluoroalkyl substances and serum cholesterol. *Environmental Toxicology and Pharmacology*, 98, 104062. <https://doi.org/10.1016/j.etap.2023.104062>

Oral Presentations

- DIOXIN 2021 Annual Meeting, Tianjin, China:
“Associations of Cardiovascular Disease Risk Factors with PFAS and Mixtures of Halogenated Pollutants in the Anniston Community Health Survey II (ACHS II).”

Morgan, S. E., Pavuk M., Birnbaum L.S., Morris A.J., and Petriello, M. C., November 10, 2021.

- FLUOROS 2021 Annual Meeting, South Kingstown, RI:
“Cardiovascular Disease Biomarkers are Associated with PFAS and Mixtures of Halogenated Pollutants in the Anniston Community Health Survey II.”
Morgan, S. E., Pavuk M., Birnbaum L.S., Morris A.J., and Petriello, M. C., October 5, 2021.

Other projects

- Wayne State University Digital Commons, July 2021:
“Chronic Illness: Heart Healthy Recipes.” Fuad-Tahsin Abbas, Sara Farooqui, **Stephanie Morgan**, Emile Tadros, Ahmed Ayantayo, Omar Mahmood, Marina Ngassa Tayou, July 2021.
- Wayne State Digital Commons, March 2021:
“The Ticking Time Bomb: COVID-19’s hidden, long-term impact: permanent cardiovascular disease.” Fuad-Tahsin Abbas, Sara Farooqui, **Stephanie Morgan**, Emile Tadros, March 2021.

UNDERGRADUATE RESEARCH

Supervisor: Dr. Christine Rabinak

May 2018 - March 2020

Eugene Applebaum College of Pharmacy and Health Sciences
Wayne State University

Pituitary adenylate cyclase-activating polypeptide (PACAP) is a protein involved in the neurophysiological stress response that has been linked to hippocampal regulation and the hypothalamic-pituitary-adrenal stress axis. A single nucleotide polymorphism (SNP) in the PACAP receptor has been linked to posttraumatic stress disorder in adults, but there is little research regarding this SNP in children or adolescents, an important time in brain development and the emergence of stress-related disorders.

Honors thesis

- “Genetic variation in the PACAPergic system and limbic-based functional organization in youth: a preliminary study.” **Stephanie E. Morgan**, Hilary A. Marusak, Farrah Elrahal, Craig Peters, Alessandra S. Iadipaolo, Kyle J. Burghardt, Christine A. Rabinak

Oral Presentations

- Michigan Physiological Society 2019 Annual Meeting, Mount Pleasant, MI:
“Effects of Genetic Variation in the PACAPergic System on Functional Organization in the Limbic System in Youth.” **Stephanie E. Morgan**, Hilary A. Marusak, Farrah Elrahal, Craig Peters, Allesandra S. Iadipaolo, Kyle Burhgardt, Christine A. Rabinak, June 2019.
- Translational Neuroscience Program 2019 Annual Meeting, Detroit, MI:
“Effects of Genetic Variation in the PACAPergic System on Functional Organization in the Limbic System in Youth.” **Stephanie E. Morgan**, Hilary A. Marusak, Farrah Elrahal, Craig Peters, Allesandra S. Iadipaolo, Kyle Burhgardt, Christine A. Rabinak, May 2019.
- Researchers of Biobehavioral health in Urban Settings Today (RoBUST) 2018 Annual Meeting, Detroit, MI:
“PAC1 gene polymorphism effects on limbic-based functional organization in youth.” **Stephanie E. Morgan**, Hilary A. Marusak, Farrah Elrahal, Craig Peters, Allesandra S. Iadipaolo, Kyle Burhgardt, Christine A. Rabinak, September 2018.

Posters

- Michigan Society for Neuroscience 2019 Annual Meeting, Kalamazoo, MI:
“PACAP Receptor Polymorphism Effects on Functional Organization of the Limbic System in Youth.” **Stephanie E. Morgan**, Hilary A. Marusak, Farrah Elrahal, Craig Peters, Allesandra S. Iadipaolo, Kyle Burhgardt, Christine A. Rabinak, May 2019.
- Society of Biological Psychiatry 2018 Annual Meeting, New York, NY:
“Effects of PACAP Receptor Gene Polymorphism on Limbic-Based Brain Functional Organization in Youth.” **Stephanie E. Morgan**, Hilary A. Marusak, Farrah Elrahal, Craig Peters, Allesandra S. Iadipaolo, Kyle Burghardt, Christine A. Rabinak, May 2018.
- National Conference on Undergraduate Research 2018 Annual Meeting, Edmond, OK:
“Effects of PACAP Receptor Gene Polymorphism on Limbic-Based Brain Functional Organization in Youth.” **Stephanie E. Morgan**, Hilary A. Marusak, Farrah Elrahal, Craig Peters, Allesandra S. Iadipaolo, Kyle Burghardt, Christine A. Rabinak, April 2018.
- Warrior Scholars 2018 Annual Meeting, Detroit, MI:
“Effects of PACAP Receptor Gene Polymorphism on Limbic-Based Brain Functional Organization in Youth.” **Stephanie E. Morgan**, Hilary A. Marusak, Farrah Elrahal, Craig Peters, Allesandra S. Iadipaolo, Kyle Burghardt, Christine A. Rabinak, March 2018.
- Researchers of Biobehavioral health in Urban Settings Today (RoBUST) 2017 Annual Meeting, Detroit, MI:
“Post-traumatic growth in childhood cancer survivors and their parents.” **Stephanie E. Morgan**, Hilary A. Marusak, Allesandra S. Iadipaolo, Christine A. Rabinak, September 2017.

UNDERGRADUATE FELLOWSHIP

Supervisor: Dr. Shawn McElmurry

May 2019 – August 2019

Department of Civil and Environmental Engineering
Wayne State University
Barber Summer Interdisciplinary Research Program

Activated carbon-block point-of-use drinking water filters can change the bacterial composition of drinking water, which may therefore impact the gut microbiome of animals. Using larval and adult zebrafish, this study monitored the behavior and analyzed the gut microbiome of zebrafish being fed tap and filtered water at the early and late stages of the filter operation period to investigate the impact of altered gut microbiomes.

Manuscript

- Wu, C.C., Connell, M., Zarb, A., Akemann, C., Morgan, S., McElmurry, S. P., Love, N. G., Baker, T.R (2022). Point-of-use carbon-block drinking water filters change gut microbiome of larval zebrafish. *Environmental Microbiology Reports*. 2022;14(4):655-663. doi:10.1111/1758-2229.13077

AWARDS & HONORS

- Medical Student Research Fellowship
Wayne State University School of Medicine, Detroit, MI
May 2021 – August 2021
- Best Undergraduate Poster
Michigan Society for Neuroscience, Kalamazoo, MI
May 2019
- Richard Barber Summer Research Fellowship
Civil and Environmental Engineering
Wayne State University, Detroit, MI
May 2019 – August 2019
- President's Scholarship
Wayne State University, Detroit, MI
August 2016 – May 2020
- National Merit Scholar
National Merit Scholarship Corporation
Wayne State University, Detroit, MI
September 2016 – May 2020

EXTRACURRICULAR

- First Aid First, Co-President
Wayne State University School of Medicine
November 2020 – November 2021

- Collaborated with other medical students and faculty supervisor to present a variety of fundamental first aid information and techniques to our peers and members of the Detroit community
- Cardiology Interest Group, Communications November 2020 – November 2021
Wayne State University School of Medicine
 - Conducted cardiology-related content reviews and organized events with cardiology faculty to inform our peers about the specialty
- Women’s Club Soccer, President August 2016 – November 2021
Wayne State University
 - Practiced and played with 25 women each year and acted as interim player-coach as well as managed team administrative and financial affairs

MENTOR EXPERIENCE

- Warrior VIP Peer Mentor August 2018 – May 2020
Wayne State University, Detroit, MI
 - Worked with six first-year undergraduates identified as high-risk of discontinuing school to help them adjust to the academic and social challenges at a university
 - Identified resources promptly for students based on their specific needs
- Undergraduate Mathematics Tutoring Assistant September 2016 – March 2020
Wayne State University, Detroit, MI
 - Answered questions and reviewed difficult topics with hundreds of students as a supplement to a beginning algebra class
 - Assisted professors in monitoring final exams and placement exams

WORK EXPERIENCE

- Hard Rock Café June 2018 – August 2018
Detroit, MI
 - Worked as a retail associate to engage restaurant patrons and provide information about the memorabilia in the Hard Rock Café store
 - When short staffed or during popular dining times, helped seat guests at tables, clear off and reset tables, serve food to guests
 - Certified as a trainer for incoming retail associates and hosts
- Ulta Beauty June 2016 – December 2018
Canton, MI and Southgate, MI
 - Responsible for greeting customers and recommending products and services tailored to their specific requests
 - Took inventory, organized the storage room, restocked the floor weekly when new products arrived
 - Traveled to help oversee and set up new stores in Michigan and Ohio