

## Summary

I would like to sincerely thank the Graduate Interdisciplinary Program Administration Office and the GIDP Advisory Council (GIDPAC) for awarding me the Herbert E. Carter Travel Award to attend the American Physiological Society (APS) Summit 2025. The conference was held in Baltimore, Maryland, from April 24<sup>th</sup>-27<sup>th</sup>. At the summit, I had the opportunity to present my research titled "Aging Associated Decrease of Nrf2, Antioxidant and Detoxification Genes in the Myocardium of Human, Monkey and Rodents." I received valuable feedback from the cardiovascular experts, which I plan to investigate further into my ongoing project. Additionally, I attended several poster sessions focused on aging and oxidative stress that helped me get insight into emerging topics and ongoing studies in the field. A particular memorable session was a keynote lecture by Dr. Rothman, whose talk on the biochemistry of vesicle secretion was both fascinating and informative. I was introduced to different advanced techniques beyond my immediate area of expertise. Another highlight was a symposium on mitochondria transplantation, which closely aligns with another project of mine that investigates extracellular mitochondria under oxidative stress. Throughout the conference, I was able to connect with fellow researchers working on related topics, exchange ideas, and expand my scientific network. Being able to have these scientific conversations with researchers from different universities was very rewarding and further strengthened my passion for translational research. I am very grateful for the opportunity to attend APS 2025 summit, which significantly contributed to my professional development and future career in academic research.