



HTRS 2021 Student Research Award Recipient



J. Cameron Barton

Oklahoma State University College of Osteopathic Medicine

Mentor: Joshua Muia, PhD

Project Title: "Validation of a novel ADAMTS13 assay for characterization of patients with thrombotic thrombocytopenic purpura"

Cameron Barton is a medical student in the class of 2024 at the Oklahoma State University College of Osteopathic Medicine (OSUCOM) in Tulsa, Oklahoma. He is from Broken Arrow, Oklahoma and received an undergraduate degree in psychology and microbiology from Oklahoma State University in 2020, afterwards choosing to remain in Oklahoma to pursue his medical education so that he can help the underserved communities of his home state.

Cameron is especially interested in hematology, as he has had a close family member affected by immune thrombocytopenic purpura (ITP), so his passion for hemostasis and thrombosis extends outside the classroom and laboratory. His goals for the Student Research Award funded research period are two-fold. Specifically, one goal is to validate the utility of using von Willebrand factor derived from domestic cattle as a substrate in measuring activity levels of ADAMTS-13 in the context of diagnosing thrombotic thrombocytopenic purpura (TTP). More broadly, this goal is to establish a foundation for further research into the optimization of enzymatic assays which will provide more sensitive and efficient diagnostic techniques for a variety of disorders. Cameron would also like to shine a light on OSUCOM and the amazing students and faculty at OSUCOM, and he hopes to encourage his fellow classmates and other osteopathic medical students throughout the U.S. to seek out opportunities in research.