

Philip Allen

Graduation Year: Senior

College: Science

Major(s): Biology, Classics

Minors(s): Glynn Family

Scholar Group Membership: Glynn

Did you received other funding for this project?: College of Science

Could you have completed this project without CUSE funding? No

More details on CUSE funding assistance?

Project Title: StARD9 is a Novel Kinesin Required for Motility and Tubulation of Late Endosomes/Lysosomes Containing NPC1.

Project Location: Vaughan Lab, Notre Dame, IN and ASCB annual meeting, San Diego, CA

ND Faculty Mentor: Dr. Kevin Vaughan

Project Type: Conference - Presentation

Why did you undertake this project/experience? Deepen your knowledge of a topic or issue, Research/experience necessary for senior thesis or capstone project, Career discernment and/or preparation

Did your funded experience help you:

[Deepen your understanding of your coursework or field of study]: Yes

[Discern your interests and post-bac goals]: Not Applicable

[Become confident in your ability to set and achieve your goals]: Yes

[Gain a more nuanced view of local, national, or global communities]: Yes

[Improve your written and verbal communications skills]:A Little

Tell us about your experience.

I presented some of my Glynn Family senior project at the American Society for Cell Biology Annual Meeting in San Diego from Dec. 12 to Dec. 16. I presented my poster at the undergraduate portion of the meeting on Dec. 12 and alongside the lab's graduate student in the full portion of the meeting on Dec. 13. My work is on StARD9, a novel kinesin motor protein that I think is responsible for cholesterol trafficking from the lysosomes to the endoplasmic reticulum. One of the major topics that came up in my discussions with other researchers at the meeting was how to better characterize the placement of StARD9 in the lysosomes (i.e. which specific lysosomes is StARD9 found in) and the actual dynamics behind the membrane tabulation movement of StARD9 within lysosomes.

Describe the impact this project had, both on you as a student-scholar and on the people you worked with.

One of the really great things about attending this meeting was seeing how science and cell biology as a field is conducted on a national scale. While talking with some of the professors at the meeting, I was offered the advice that this meeting is an opportunity to see what is

