

**Mo Murshed**  
Memphis, TN  
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### **EDUCATION**

**Rhodes College**, Memphis, TN  
Bachelor of Science in Neuroscience  
3.92 gpa

Expected May, 2028

### **HONORS**

Posse Foundation Full-Tuition Leadership Scholarship (2024 – 2028)  
Fall 2024 Dean's List, Spring 2025 Honor's List and Dean's List

### **RESEARCH EXPERIENCE**

**Rhodes College**, Memphis, TN  
*Undergraduate Biology Research*, Faculty Advisor: Liam Hunt

August 28, 2024 – Present

- Spent a minimum of 3 hours per week in lab, breeding samples, performing experiments, quantifying and analyzing data, collaborating with lab partners, presenting our findings
- Using Fiji ImageJ, we quantified eye pigmentations of *Drosophila Melanogaster* generations, observed for *white gene* suppression, we studied Position Effect Variegation (PEV), chromatin states, gene expression and silencing, and epigenetic to understand aging mechanisms
- Led to more information about PEV as a predictive indicator of heterochromatin formation in *Drosophila* aging trajectories via silencing of genes that promote heterochromatin formation, and understanding genetic variants from artificially selected populations, which modify PEV and extend lifespan

### **Poster Presentations**

Sikandar, A., Murshed, M., Schiff, H., & Perry, A. (2025). *Identification and characterization of a second chromosome genetic variant affecting development and heterochromatin formation in Drosophila melanogaster*. Poster presented at: Rhodes College 2025 Research Symposium, Memphis, TN. Faculty Sponsor: Dr. Liam Hunt, Department of Biology.

### **ACTIVITIES**

**Team Member**, Intramural Volleyball (February 2025- March 2025)

**Attendee**, Chemistry Club (August 2024- December 2024)

### **SKILLS**

Proficient in Fiji ImageJ, Proficient in Microsoft Excel, Proficient in R-Studio, Advanced in Listening and Speaking Arabic,