The 2023 STARS Summer Research Program for Teacher included seven teachers from Dallas-Fort Worth and surrounding areas. This 8-week program gave teachers an opportunity to work side-by-side with a faculty host. It consisted of activities, seminars, and an individualized research project that contributed to the advancement of science. The teachers were able to showcase and share these advancements during the end-of-program scientific poster session.

Emma DeVine
St. Andrew’s Episcopal School
Mentor: Joel Elmquist, D.V.M., Ph.D.
Neuronal Steroid Hormone Signaling Regulates Fitness via Nuclear Receptors in Drosophila melanogaster and Drosophila Feeding Behavior in Middle School Science Classroom

Julia Drake
Plano West Senior High School
Mentor: Ralph Mason, Ph.D.
Non-Invasive Imaging Used to Observe Delay in 4T1 Breast Cancer Tumor Growth due to Vascular Disrupting Agent and Melatonin

Cory Hamilton
Woodrow Wilson High School
Mentor: Tian Qin, Ph.D.
Synthesis of Bicyclo[3.1.1] Heptane Precursor

Lindsey Hranitzky
Lake Highlands High School
Mentor: Paula Hernandez, Ph.D.
Sex Differences in Chondrocyte Cells and the Influence of Estrogen on Inflammation: Production of Nitride Oxide
Shawna Lopez
Cornerstone Christian Schools
Mentor: Paula Hernandez, Ph.D.
Sex Differences in Articular Chondrocytes and the Influence of Estrogen on Inflammation: Gene Expression

Felipe Monrooy
Uplift Williams Preparatory – Middle School
Mentor: Kenneth Hettie, Ph.D.
Identifying & Treating Disease: The Benefits of Using Animals Models for Cancer Research and Science Education

Lesya White
North Dallas High School
Mentor: Teppei Fujikawa, Ph.D.
Decoding neuronal responses to hypoglycemia and exercise: insights from TRAP2-Cre/ncGFP Mice and pPDH Protocols