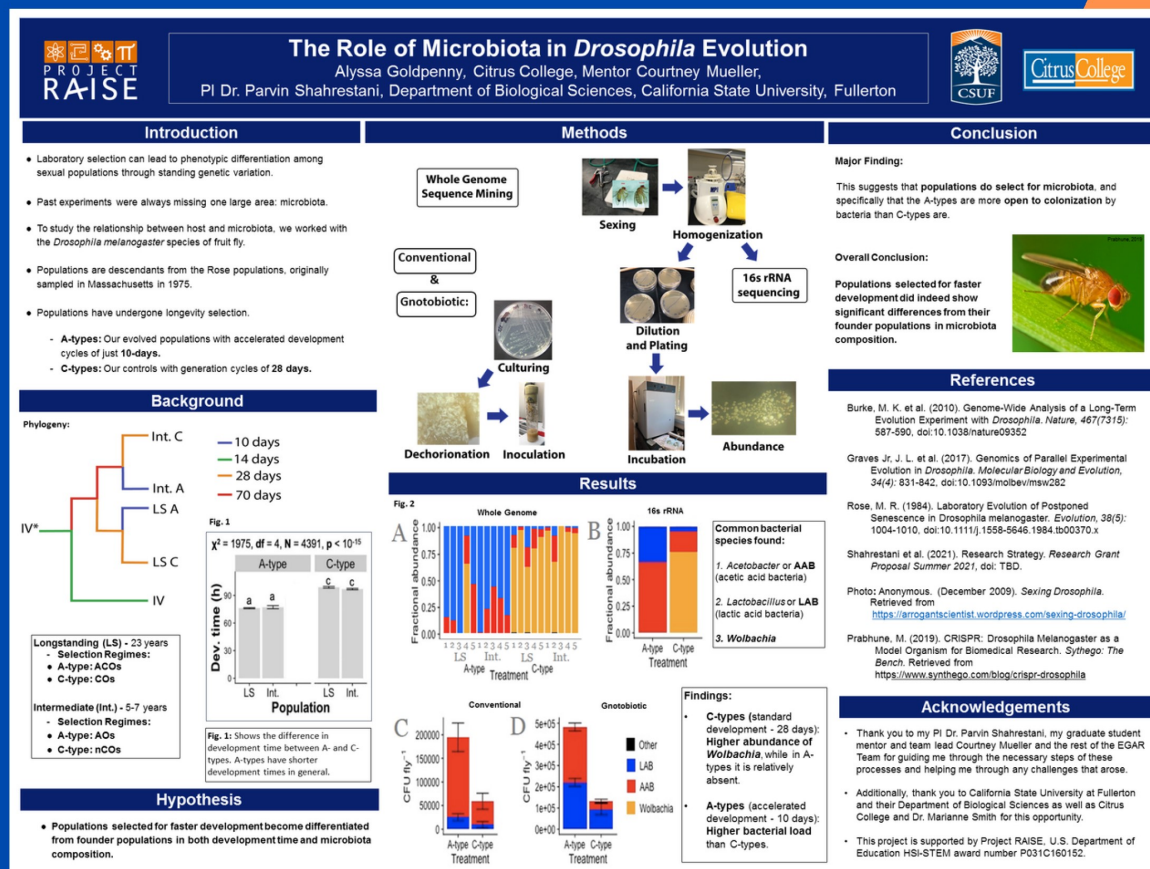


# ALYSSA GOLDPENNY



In general, we took different populations of *Drosophila melanogaster*, each one has undergone various levels of longevity selection and compared their microbial compositions. We had a population whose generation cycle was 28 days, which is the standard, and we had a population with an accelerated generation cycle of just 10 days. The two main bacterial genus' we looked for were *Acetobacter* and *Lactobacillus*. All in all, it was found that populations who have undergone different selection pressures will have distinctly different bacterial compositions and/or abundances as well.

Alternate Text:

Alyssa Goldpenny

Quote: "In general, we took different populations of *Drosophila melanogaster*, each one has undergone various levels of longevity selection and compared their microbial compositions. We had a population whose generation cycle was 28 days, which is the standard, and we had a population with an accelerated generation cycle of just 10 days. The two main bacterial genus' we looked for were *Acetobacter* and *Lactobacillus*. All in all, it was found that populations who have undergone different selection pressures will have distinctly different bacterial compositions and or abundances as well."

Image of Alyssa Goldpenny

Image of text and graphic laden project presentation entitled "The Role of Microbiota in *Drosophila* Evolution. Alyssa Goldpenny, Courtney Mueller"