**Fecundity Experiments**

*Summer 2025*

Goal

Quantify the effect of epiphytic *P. pergaminensis* #220 on pea aphid (alate) reproduction.

Background

Hypothesis

*P. pergaminensis* #220 negatively effects pea aphid (alate) reproduction.

Methods

1. D0: Prepare #220 overnights
2. D0: Prepare bacterial dilutions
3. D1: Spray plants
4. D0: Add alates and cover
5. D2: Sample plants #1
6. D6: Count babies and move alates to unsprayed plant #2
7. D12: Count babies and move to unsprayed plants #3
8. D12: Sample plants #2
9. D18: Count babies and sample any living alates
10. D18: Sample plants #3
    * + ~3 weeks long
        - Full alate life cycle
      + 3 rounds of plant switching
      + Smallest pots for single plants (more reps in case alates die)
      + Griffin read fecundity comp. paper