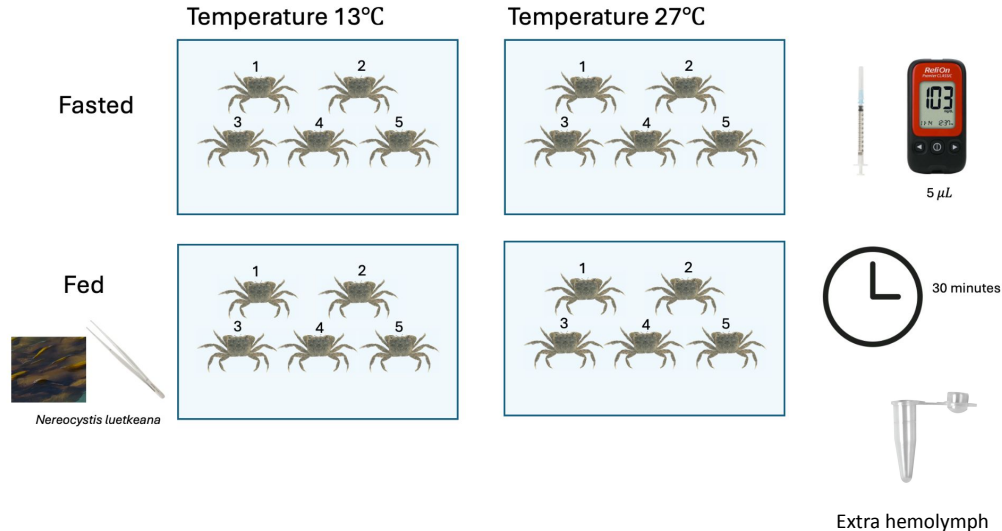


# Assessing *Hemigrapsus oregonensis* Glucose Metabolism under Temperature and Nutrient Stress

How does thermal stress affect glucose levels in *Hemigrapsus oregonensis* under different feeding states?

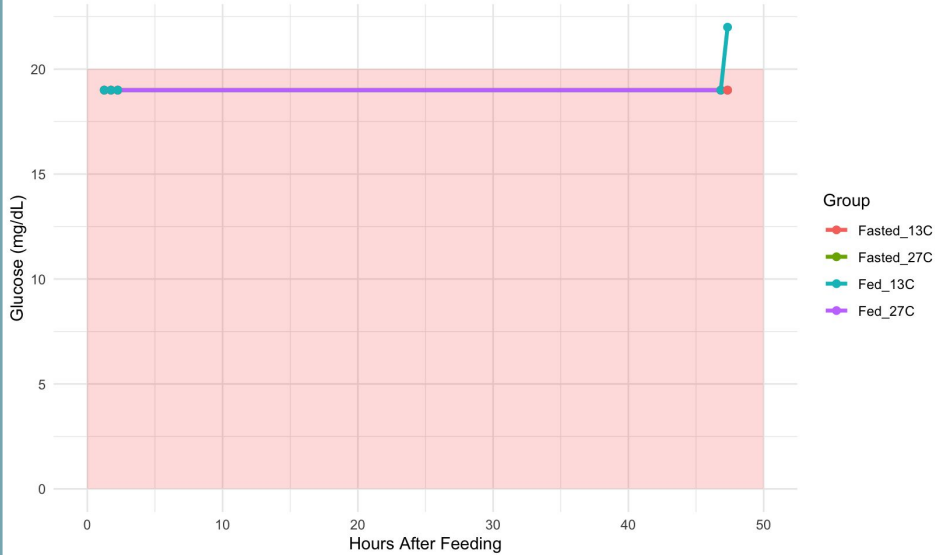
- Null Hypothesis - There is no significant difference in glucose levels in crabs experiencing thermal stress
- Alt Hypothesis - Crabs under thermal stress will display altered glucose levels within feeding states



- Fed groups received bull kelp at lab start
- Hemolymph was extracted every 30 minutes
- Measured glucose by glucometer
- Extra hemolymph was saved for assays
- 5 readings per group, 25 total
- 2 trials: 1.25 and 4 hours post-feeding first reading°C

## Graph 1: Week 1 May 5-7

Glucose Levels Over Time

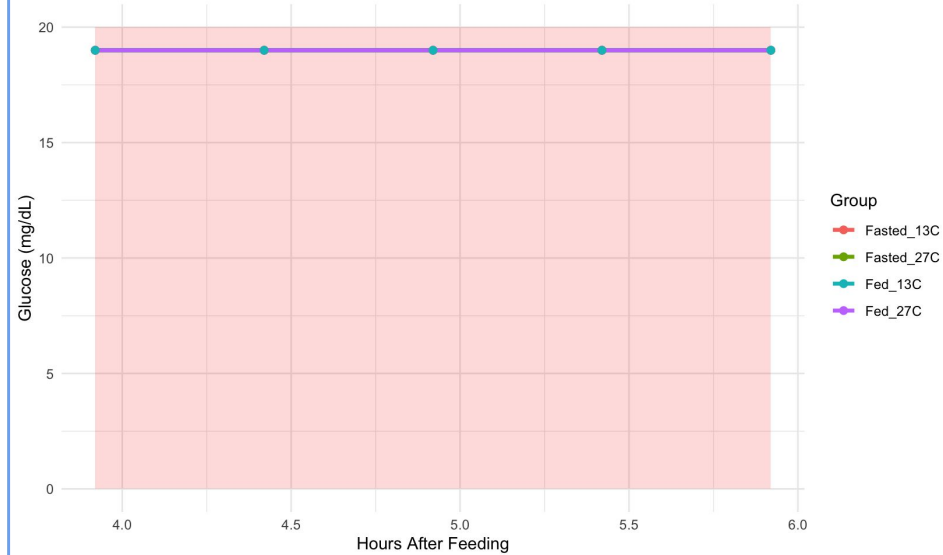


Fed 5/5 at 1:45pm -> 3 values on 5/5 and 2 on 5/7

Glucose levels in mg/dL were compared across different treatment groups using a line plot. Patterns over time can be evaluated to detect differences between groups, especially within different temperatures.

## Graph 2: Week 2 May 12

Glucose Levels After Feeding



Fed 5/12 at 9:40am -> 5 values on 5/12

We adjusted our feeding strategy by feeding 4 hours before the first glucose reading to allow more time for digestion, and to assess how this may influence the glucose trends over time.