Labs 9 and 10: Vertebrate Skeletal Muscle

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2023-10-30

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Before Lab

The first week will be a group lab on toad muscle. You should develop a hypothesis that you will test the following week for your **independent lab**.

Prepare for lab by:

- Read the lab manual for this week s experiment [Lab 9/10]
- Outline the [Prelab] in your lab notebook. **Summarize** the important points for this experiment.
- Draft hypotheses for each experiment
- Time permitting, outline (write a topic setence and bullet point any supporting points that come to mind):
  - Umbrella idea
  - Mechanism 1
  - Mechanism 2
  - …
  - end with a paragraph of your hypotheses
- For the **methods**, outline:
  - subjects

  - equiptment
  - experimental treatments (be sure to note what **variables** are changing) and controls or comparisons
  - analysis

- Do Quiz on Laulima (open 24 hrs before lab) for lab 9. No quiz for lab 10.
- Please bring a laptop with you to lab, if possible, to analyze your experimental results.
- **Draft hypotheses for your independent lab** (next week Lab 10). Get approval from your TA during lab 9.
- **For lab 10**, you will help your group members collect their data, but you will *design, execute, and write up your own independent lab report.*

In Lab:

- Lab 9 manual [pdf] . Record data in your lab notebook.
- You should have plenty of time to complete the data collection and your figures during lab.

- This will be a Group Lab. Begin planning with your partners as you work.
- Start an outline with your lab partners and start outlining your discussion points, and the rest of the report. Use your time wisely to brainstorm as you work.

After Lab:

- Group lab report due next week. See the guidance at the end of the manual [pdf]

- Always follow the content guidelines: [grading guidelines] [old style]
- It is a good idea to divide up the work of writing the lab **by experiment**. That way, *each person writes a portion of the intro, methods, results, and discussion for their* ***hypothesis***.
- Work out your timeline with your lab partners during lab (and plan a face-to-face meet up ***so that everyone has a chance to comment and edit*** before the lab is submitted.