

Lab 5: Physiology of the *in situ* Toad Heart

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Before Lab

i Prepare for lab by:

- **Wear shoes to lab** (you will be dissecting).
- Read the lab manual for this week s experiment [[Lab 5](#)] exploring the physiology of the toad heart using ECG and a force transducer.
- Write the [[Prelab](#)] in your lab notebook.
- Do Quiz 4 on Laulima (open 24 hrs before lab).

In Lab:

- Lab 5 manual [[pdf](#)] [[docx](#)]. Record data in your lab notebook. Use the guidance at the end of the lab manual to analyze your data in preparation for your results and discussion.
- Dissection guide [[pdf](#)]
- Toad heart anatomy. Note that amphibians have a 3-chambered heart! Two atria and one ventricle. [[pdf](#)]



External Anatomy of the Frog Heart

Ventral View



Dorsal View



After Lab:

- Individual Work Sheet due next week [\[pdf\]](#) [\[docx\]](#)
- You will include hypotheses (sections 1 and 2), mini results (section 3), and a regular discussion. On this lab WS, put a little more effort into the discussion. For each section we ask for, always follow the content guidelines: [\[grading guidelines\]](#) [\[old style\]](#)
- You are encouraged to analyze data with your lab members, and may develop figures together, but all writing must be your own work.