

# Lab 4: Electrocardiogram (ECG/EKG) and Cardiac Response to Exercise

Marguerite Butler

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## Before Lab

**i** Prepare for lab by:

- **Wear comfortable shoes to lab** (you will be running up and down the stairs).
- Watch cardiac cycle podcast.
- Read human ecg protocol [**Protocol 3**].
- Read the lab manual for this week s experiment [**Lab 4**] exploring the cardiac cycle and effects of exercise using ECG.
- Write the [**Prelab**] in your lab notebook.
- Do Quiz 4 on Laulima (open 24 hrs before lab).

<https://youtu.be/dWZqO2XHo2Y>

## In Lab:

- Practical based on **Lab 1**.
- Lab 4 exercises 1-3. Record data in your lab notebook. [**example data tables**] [**docx**]



Figure 1: The ECG is the summation of cardiac potentials throughout the heart

- Note: the data tables are to assist you in collecting data and should be included in your notebook. Present the results in your lab report

### After Lab:

- Group lab report due next week
- Use the guidance to structure your full lab report. [[pdf](#)] [[docx](#)]
- This will be a full lab report with intro, methods, results, discussion, literature cited, and respective contributions. [[grading guidelines](#)] [[old style](#)]

#### ! Important

- Be sure to solicit feedback from lab partners, *but do not delete or rewrite the words of others*. Leave comments and allow author to revise (or not).