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

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2023-09-09

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### **Before Lab**

## 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

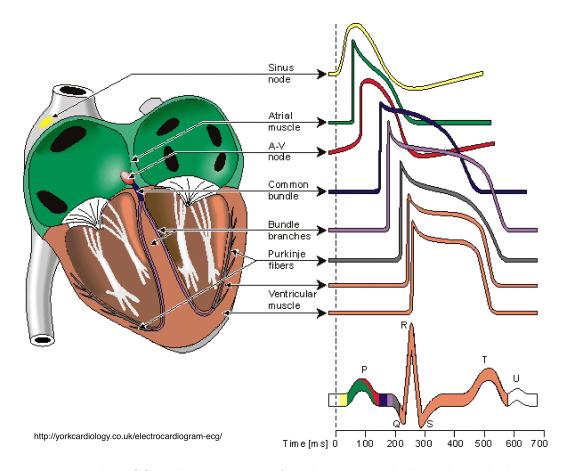


Figure 1: The ECG is the summation of cardiac potentials throughout the heart

#### In Lab:

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