

Lab Report Guidelines

Lab I: Bovine Heart & Lung Dissection

Goals, Methods, and Pitfalls



Lab #1 Bovine Dissection

Bioengineering 6000 CV Physiology

Introduction

- Purpose and Goals of the lab
- Background required for the rest of the lab, e.g., overview of cardiac and lung function
- Brief indication of what you learned
- Description of the system covered in more depth in Discussion section



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Methods

- Explain what you did, at least in overview fashion.
- Go into detail for elements outside the lab manual.
- Include some rationale for methods used, especially those you refined or adapted.



Results

- Organize in some way that makes sense
 - Chronology of the dissection
 - Pathway of the blood
- Describe the content of the photos but also features not obvious, e.g., mechanical characteristics, texture, feel, etc.
- Describe things not seen in the photos, other features using other senses
- For each element, explain its location and connection to other parts of the system.



Discussion

- Pick one topic and go deep
- Do not repeat general results
- Justify speculations with citations, data, or logic



Use of Photos

- Photos should be as large as needed to see details, use **up to** the full column width.
- Do not wrap text around figures.
- Try to place figures above the text that describes them.
- Captions should be part of text and not figure (pixelation).
- Try to save figures in pdf format before adding to the document.



Examples of (Poor) Photos



Ruler and hands obscure objects of interest

Labels are sparse, ruler in the way, and many peripheral objects distracting.

