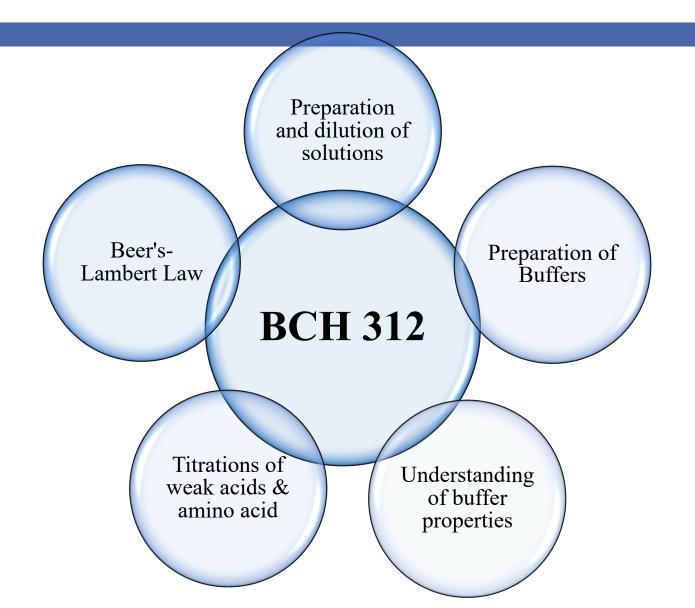
BCH 312 [Practical]

## Introduction and lab safety

## **Mark Distribution:**

| Evaluation      | Marks  |
|-----------------|--|
| Quizzes         | 5 Marks  |
| Lab report      | 4 Marks  |
| Lab performance | 1 Mark   |
| Homework        | 2 Marks  |
| Final exam      | 13 Marks (May 6 <sup>th</sup> /7 <sup>th</sup> , 2024) |
| Total           | 25 Marks   |

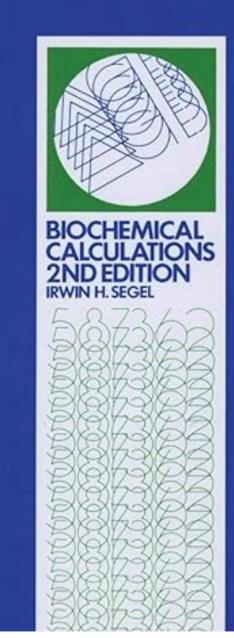
### **Course Outline:**



## **Course Reference:**

Segel, I. H. (1968, January 1). Biochemical Calculations. John Wiley & Sons.

https://www.dropbox.com/s/j3yi4k0aj9xkzko/%40biochemical% 20calculation.pdf?dl=0



## **Writing a Report:**

### **⇒** 1<sup>st</sup> Writing style:

Font: Times New Roman. Size: 12 for text and 14 for subtitle. The space between line is 1.5. The text must be justified.

### **⇒** 2nd Report content:

### 1. Cover page

Logo of uni. & dep. – report title – course name and code – students names – date of submission.

#### 2. Table of content



King Saud University

College of Science

Department of Biochemistry

Title of the experiment

**BCH 000** 

Prepared by:

Name 4411111

Name 4411111

## **Writing a Report:**

#### 3. Introduction

A background that helps to understand your topic should be written. The information in the introduction must be cited.

### 4. Objective/s

Write it using your own words, make it specific.

#### 5. Materials and methods

As in the lab-sheet

### Introduction

migration rate of RNA through agarose gels depends on the following parameters: size of the RNA molecules, the concentration of agarose gel, and voltage applied [7].

#### References

7.

Surzycki, S., Basic Techniques in Molecular Biology. 2000, New York: Springer.

## **Writing a Report:**

#### 6. Results

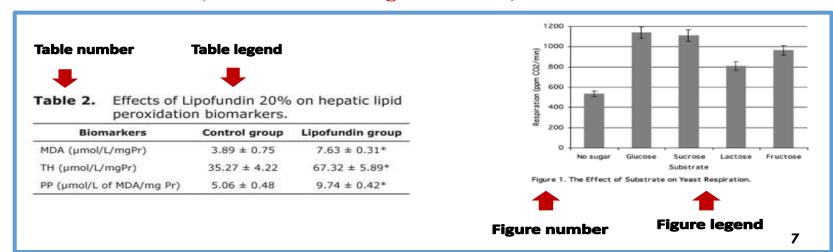
- > You should report all the results that you get from your experiment. Any tables, figures or calculations.
- > You MUST write the legend of tables and figures as shown below

#### 7. Discussion

You must write a description and reasons for why you got your results.

#### 8. References

Endnote, Mendeley or Cite This For Me: Web Citer (extension in Google Chrome).



# General Laboratory Safety

- > You.
- > Other lab workers and visitors.
- > Your work.

### **General consideration:**

- > Never eat, drink or chew gum in the lab.
- Do not taste, smell or touch any chemical.
- > Tell your instructor about any accident.
- > Tie your hair before experimenting.
- Closed-toed shoes should be worn at all times.
- Wash your hands with soap after an experiment.
- You must know all exits in your lab, eye washer, and fire extinguisher, first aid kit.
- Do <u>not</u> touch any electrical sources.



## **General consideration:**

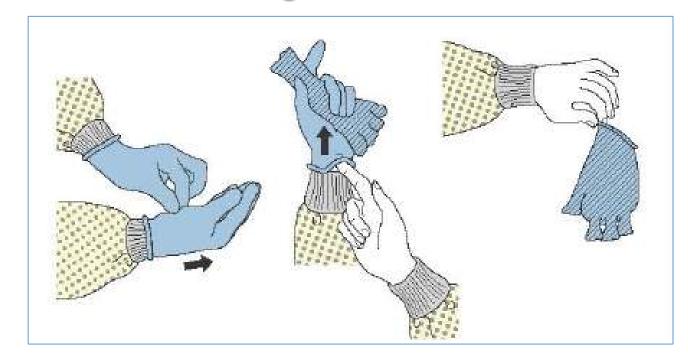








### How to remove gloves



### **General consideration:**

### Before starting the experiment:

- Before starting working, be sure to label the glassware.
- > Glassware should be cleaned before use.



### After finishing the experiment:

- After finishing the experiment turn off all the equipment, and clean your work bench.
- > Glassware must be cleaned and kept back in the proper place.



## **Dealing with chemicals**

- Consider all chemicals to be hazardous.
- Know what chemicals you are using and notice the hazard symbols.
- > Carefully **read the label** twice before taking anything from a bottle.
- **Never point** a test tube that you are heating at yourself or your neighbour.
- > You must work at the **hood** when dealing with a chemical with fumes.
- If chemicals come into **contact with your skin** or eyes, **flush** immediately with water and consult with your instructor.
- Always pour acids into water. If you pour water into acid, the heat of the reaction will cause the water to explode into steam.
- Do not forget to label your tubes before starting the lab.
- **Close** all chemical bottles after finishing
- Dispose of chemicals properly.



## **Hazard symbols:**

### **SAFETY PRACTICES**



Flammable



Harmful / Irritant



Corrosive



Poison / Toxic



Explosion



**Biohazard** 



Oxidizer



Environmental Hazard



Radioactive