

To submit this assignment, students will complete the Lab Worksheet on pages 6-10, then upload their completed document as a DOC or PDF file in Canvas

## **BIO 101 Lab 03: Microscopy and Cells**

Notification: If you have a disability that makes it difficult to complete this lab, please contact your instructor. Please provide your instructor a copy of the Memorandum of Accommodation (MOA) from NVCC Disability Support Services.

### **Objectives:**

- Identify the parts of the compound and dissecting microscopes and explain their functions
- Focus the microscope using the scanning, low-, and high-power lenses
- Prepare a wet mount slide
- Accurately describe specimens viewed through the compound light microscope
- Identify and explain the functions of the major cellular organelles
- Explain the similarities and differences between prokaryotic and eukaryotic cells and plant and animal cells

### **Background:**

Both large and small organisms make important contributions to our ecosystem. Our naked eye can easily see many plants and animals, but without the assistance of magnifying lenses, we cannot see the smaller organisms. Microscopes are the instruments we use to assist our eyes when viewing these minute specimens. There are different types of microscopes that serve different purposes. During this exercise you'll learn to use a **dissecting microscope** to examine larger objects and a **compound microscope** to view smaller objects.

### **Microscope Anatomy**

All microscopes consist of a lens system, a controllable light source, and a way to adjust the distance between the lens and the object being observed. The major parts of a compound light microscope include the:

- **Base:** rests on the table and contains a built in light source and a light switch
- **Light source:** source of illumination
- **Light adjustment knob:** regulates the intensity of the light
- **Arm:** rises from the base and supports the stage, lens system, and control knobs
- **Ocular lens:** the eyepiece (10X magnification lens)
- **Stage:** supports the specimen being viewed
- **Focus knob(s):** changes the distance between the stage and the lens
- **Stage clips:** hold microscope slides in place
- **Mechanical stage control:** allows precise movement of the slide
- **Condenser:** concentrates light on the object being observed
- **Iris diaphragm:** controls the amount of light passing through the specimen
- **Revolving nosepiece:** controls the positioning of the objective lenses
- **Objectives:** various lenses including the 4X scanning lens, the 10X low power lens, the 40X high power lens, and the 100X oil immersion lens

# Bio 101 Lab Answers

**Karin Nielsen-Saines**



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