

Lab 10 – 4/28/14

Learning Objectives

By the end of this lab you should understand:

- The contents of blood by volume and the major disorders of blood
- The ABO and Rh systems of blood antigens

Key facts:

- Red blood cells carry oxygen, while other nutrients are carried in plasma
- Phagocytes are the most common white blood cell and consume pathogens
- The acquired immune system will reject any antigens that were not present in the body during fetal development

Key skills:

- Determine whether a blood composition is healthy or abnormal
- Identify a blood cell under a microscope or by model
- Identify a blood type from serum testing

Lab Procedure:

- Exercise #14: Blood
 - Activity #1: Centrifugation
 - Activity #2: Blood cells
 - Activity #3: Blood typing
- Individual Lab credit: Identify the functions and frequencies of blood cells
- Group Lab credit: Identify the blood types of the simulated blood

Sample lab exam questions:

- True/False: A person with type A blood will reject type O blood
- What is the hematocrit of this blood tube?
- Which of these tubes contains anemic blood?
- What blood type antibodies does this person have in their blood?
- Which of these cells is a phagocyte?