

Blood

Exercise 29A (begins: page 307 in 8th edition, page 423 in 9th edition)

Lab 2 Objectives

Read lab Exercise 29A

Do Activities 3, 4, 8, 9 in 8th edition

3, 4, 7, 8 in 9th edition

Blood cell photos: page 739 in 8th edition, pages 701-702 in 9th edition

Composition of blood: identify location in hematocrit and specific cell types on slides

Plasma

Formed elements

Erythrocytes

Platelets

Leukocytes

Neutrophil (40-70% of WBCs)

Basophil (less than 1%)

Eosinophil (2-4%)

Monocyte (3-8%)

Lymphocyte (25+%)

Activity 3 in both editions

Do a differential WBC count on a prepared slide and compare percentages to “normal”

Activity 4 in both editions

Perform a hematocrit using sheep blood and know how to calculate using a ruler

Activity 8 in 8th edition, Activity 7 in 9th edition

Perform ABO and Rh blood typing on simulated blood—use the kit provided and follow it's instructions carefully. Understand how to read the results.

Activity 9 in 8th edition, Activity 8 in 9th edition

Observe blood disorder slides and note difference from normal blood:

Sickle cell anemia

Lymphatic leukemia

Optional Computer Activity:

PhysioEx Exercise 29B (On the PhysioEx CD-ROM packaged with the lab book)

pages P-48 to P-59 and P-143 to P-146 (back of the book) in 8th edition

pages PEx-65 to PEx-82 (back of the book) in 9th edition

For study: Review Sheet Exercise 29A pages 643-648 in 8th edition

pages 437-442 in 9th edition

Answers in the Instructors Manual at the East Campus Library on reserve

Prepare For Next Lab Homework: Read Exercises 30 & 31 to be familiar with the content you will be studying in the next lab. Optional: print the histology photos from the web for use in class to assist in orientation and identification of the slides.

www2.sunysuffolk.edu/czuraa BIO132 Lab 3 “labeled photos”