

LABORATORY EXERCISE 11

STRUCTURE AND CLASSIFICATION OF BONE

MATERIALS NEEDED

textbook
prepared microscope slide of ground compact bone
human bone specimens including long, short, flat, and
irregular types
human long bone, sectioned longitudinally
fresh animal bones, sectioned longitudinally and
transversely
dissecting microscope
For Demonstration:
fresh chicken bones (radius and ulna from wings)
vinegar or dilute hydrochloric acid

SAFETY

- Wear disposable gloves for handling fresh bones and for the demonstration of a bone soaked in vinegar or dilute hydrochloric acid.
- Wash your hands before leaving the laboratory.

A bone represents an organ of the skeletal system. As such, it is composed of a variety of tissues including bone tissue, cartilage, dense connective tissue, blood, and nervous tissue.

Although various bones of the skeleton vary greatly in size and shape, they have much in common structurally and functionally.

PURPOSE OF THE EXERCISE

To review the way bones are classified, and to examine the structure of a long bone.

LEARNING OBJECTIVES

After completing this exercise, you should be able to

1. name four groups of bones based on their shapes, and give an example for each group;
2. locate and name the major structures of a long bone;

3. describe the functions of various structures of a bone;
4. distinguish between compact and spongy bone.

PROCEDURE

1. Reexamine the microscopic structure of bone tissue by observing a prepared microscope slide of ground compact bone. Use the figures of bone tissue in a textbook to locate the following features:
osteon (Haversian system)
osteonic canal (Haversian canal)
lamella
lacuna (small chamber for an osteocyte)
canaliculus



Critical Thinking Application

Explain how bone cells embedded in a solid ground substance obtain nutrients and eliminate wastes.

2. Review a textbook section on bone structure.
3. As a review activity, label figures 11.1 and 11.2.
4. Observe the individual bone specimens and arrange them into groups, according to the following shapes:
long
short
flat
irregular
sesamoid (round)

Structure Of Bone Laboratory Report 1worksheet Answers

JS Bruner



Structure Of Bone Laboratory Report 1worksheet Answers:

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