

LABORATORY EXERCISE 29

THE BRAIN AND CRANIAL NERVES

MATERIALS NEEDED

textbook
dissectible model of the human brain
preserved human brain
anatomic charts of the human brain
Virtual Physiology Lab: 2, Synaptic
Transmission



The brain, the largest and most complex part of the nervous system, contains nerve centers associated with sensory functions and is responsible for sensations and perceptions. It issues motor commands to skeletal muscles and carries on higher mental activities. It also functions to coordinate muscular movements, and it contains centers and nerve pathways necessary for the regulation of internal organs.

Twelve pairs of cranial nerves arise from the ventral surface of the brain and are designated by number and name. Although most of these nerves conduct both sensory and motor impulses, some contain only sensory fibers associated with special sense organs. Others are primarily composed of motor fibers and are involved with the activities of muscles and glands.

PURPOSE OF THE EXERCISE

To review the structural and functional characteristics of the human brain and cranial nerves.

LEARNING OBJECTIVES

After completing this exercise, you should be able to

1. identify the major structures in the human brain;
2. locate the major functional regions of the brain;
3. identify each of the cranial nerves;
4. list the functions of each cranial nerve.

PROCEDURE A—HUMAN BRAIN

1. Review a textbook section on the brain.
2. As a review activity, label figures 29.1, 29.2, and 29.3.

3. Complete Part A of Laboratory Report 29.
4. Observe the dissectible model and the preserved specimen of the human brain. Locate each of the following features:

cerebrum

cerebral hemispheres

corpus callosum

convolutions (gyri)

sulci

central sulcus

lateral sulcus

fissures

longitudinal fissure

transverse fissure

lobes

frontal lobe

parietal lobe

temporal lobe

occipital lobe

insula

cerebral cortex

basal ganglia

caudate nucleus

putamen

globus pallidus

ventricles

lateral ventricles

third ventricle

fourth ventricle

choroid plexuses

cerebral aqueduct

The Brain And Cranial Nerves Lab 29

M Mosston



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