

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

Laboratory Report 25 Brain And Cranial Nerves

Thompson Yates laboratories



Laboratory Report 25 Brain And Cranial Nerves:

Essentials of Human Anatomy John W. Hole, 1992 Part - Anatomy & Physiology Laboratory Manual - E-Book Kevin T. Patton, PhD, 2014-12-02 Effectively master various physiology dissection identification and anatomic explorations in the laboratory setting with the Anatomy Physiology Laboratory Manual 9th Edition This practical full color lab manual contains 55 different A P lab exercises that cover labeling anatomy identification dissection physiological experiments computerized experiments and more The manual also includes safety tips a comprehensive instruction and preparation guide for the laboratory and tear out worksheets for each of the 55 exercises In addition 8 e Lab modules offer authentic 3D lab experiences online for virtual lab instruction 8 interactive eLabs further your laboratory experience in the digital environment Complete list of materials for each exercise offers a thorough checklist for planning and setting up laboratory activities Over 250 illustrations depict proper procedures and common histology slides Step by step guidance for dissection of anatomical models and fresh or preserved specimens with accompanying illustrations helps you become acclimated to the lab environment Physiology experiments centering on functional processes of the human body offer immediate and exciting examples of physiological concepts Easy to evaluate tear out lab reports contain checklists drawing exercises and questions that help you demonstrate your understanding of the labs they have participated in Reader friendly spiral binding allows for hands free viewing in the lab setting Labeling and coloring exercises provide opportunities to identify critical structures examined in the lab and lectures Brief learning aids such as Hints Landmark Characteristics and Safety First are found throughout the manual to help reinforce and apply knowledge of anatomy and function Modern anatomical imaging techniques such as MRIs CTs and ultrasonography are introduced where appropriate Boxed hints and safety tips provide you with special insights on handling specimens using equipment and managing lab activities UPDATED Fresh activities keep the manual current and ensure a strong connection with the new edition of the A P textbook NEW Updated illustrations and design offer a fresh and upbeat look for the full color design and learning objectives NEW Expanded and improved student resources on the Evolve companion website include a new version of the Body Spectrum electronic coloring book

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Human Anatomy and Physiology John W. Hole,1990 **Anatomy and Physiology, Laboratory Manual** Connie Allen,Valerie Harper,2016-12-28 The Allen Laboratory Manual for Anatomy and Physiology 6th Edition contains dynamic and applied activities and experiments that help students both visualize anatomical structures and understand complex physiological topics Lab exercises are designed in a way that requires students to first apply information they learned and then critically evaluate it With many different format options available and powerful digital resources it s easy to customize this laboratory manual to best fit your course **Anatomy & Physiology Laboratory Manual** Kevin T. Patton,2007 It s an ideal companion for Thibodeau and Patton s Anatomy and Physiology Sixth Edition as well as any standard anatomy and physiology textbook BOOK JACKET The Thompson Yates and Johnston Laboratories Report ,1900 The Thompson Yates and Johnston Laboratories Report Thompson Yates laboratories,1902 *Report of the Michigan Academy of Science* Michigan Academy of Science. Council,1900 List of members in 1st 4th 6th 15th 20th reports Annual Report of the Storrs Agricultural Experiment Station, Storrs, Connecticut for the Year Ending ... Storrs Agricultural Experiment Station,1926

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