

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

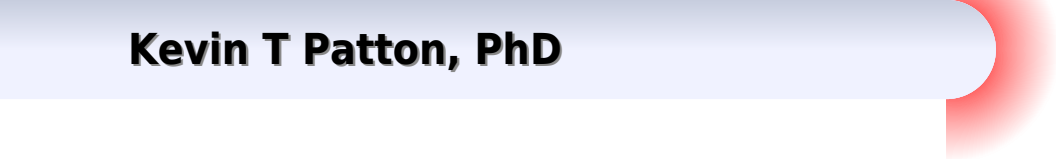
fourth ventricle

choroid plexuses

cerebral aqueduct

The Brain And Cranial Nerves Laboratory Report 25

Kevin T Patton, PhD



The Brain And Cranial Nerves Laboratory Report 25:

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

Anatomy & Physiology Laboratory Manual and E-Labs E-Book Kevin T. Patton, 2018-01-24 Using an approach that is geared toward developing solid logical habits in dissection and identification the Laboratory Manual for Anatomy and coloring exercises offer a kinesthetic experience useful in retention of content User friendly spiral binding allows for hands free viewing in the lab setting Step by step dissection instructions with accompanying illustrations and photos cover anatomical models and fresh or preserved specimens and provide needed guidance during dissection labs The dissection of tissues organs and entire organisms clarifies anatomical and functional relationships 250 illustrations including common histology slides and depictions of proper procedures accentuate the lab manual s usefulness by providing clear visuals and guidance Easy to evaluate tear out Lab Reports contain checklists drawing exercises and questions that help you

demonstrate your understanding of the labs you have participated in They also allow instructors to efficiently check student progress or assign grades Learning objectives presented at the beginning of each exercise offer a straightforward framework for learning Content and concept review questions throughout the manual provide tools for you to reinforce and apply knowledge of anatomy and function Complete lists of materials for each exercise give you and your instructor a thorough checklist for planning and setting up laboratory activities allowing for easy and efficient preparation Modern anatomical imaging techniques such as computed tomography CT magnetic resonance imaging MRI and ultrasonography are introduced where appropriate to give future health professionals a taste for and awareness of how new technologies are changing and shaping health care Boxed hints throughout provide you with special tips on handling specimens using equipment and managing lab activities Evolve site includes activities and features for students as well as resources for instructors

Human Anatomy and Physiology John W. Hole,1990 *Hole's Human Anatomy & Physiology* John Hole,1996

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 **Big Brain**

Book Leanne Boucher Gill, PhD,2021-06-01 2022 KIDS BOOK CHOICE AWARDS WINNER FOR BEST INFO MEETS GRAPHICS Readers are welcomed to the Lobe Labs and Dr Brain activities in this brightly illustrated highly engaging book that uses science to answer interesting questions that kids have about the brain and human behavior This is a fun primer on psychology and neuroscience that makes complex psychological phenomenon and neural mechanisms relatable to kids through illustrations interesting factoids and more Chapters include What is the brain made up of and how does it work Why can t I tickle myself Why do they shine a light in my eyes when I hit my head in the game Answers draw from both psychology and neuroscience giving ample examples of how the science is relevant to the question and to the reader s life experiences

Laboratory Manual for Anatomy and Physiology Patricia J. Donnelly,George A. Wistreich,1993 **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 *Report of the Michigan Academy of Science* Michigan Academy of Science. Council,1900 List of members in 1st 4th 6th 15th 20th reports

Laboratory Manual for Anatomy and Physiology, with Fetal Pig Dissections Patricia J. Donnelly,George A. Wistreich,1993 **Report of the Michigan Academy of Science ...** Michigan Academy of Science, Arts, and Letters,1900

Anatomy & Physiology Elaine Nicpon Marieb,2005 **Cumulated Index Medicus** ,1995 *Annual Report of the Michigan Academy of Science* Michigan Academy of Science, Arts, and Letters,1900 Human Osteology Margaret

Cox, Simon Mays, 2000-01-04 This advanced textbook provides the reader with an up to date account of recent developments and future potential in the study of human skeletons from both an archaeological and forensic context It is well illustrated comprehensive in its coverage and is divided into six sections for ease of reference encompassing such areas as palaeodemography juvenile health and growth disease and trauma normal skeletal variation biochemical and microscopic analyses and facial reconstruction Each chapter is written by a recognised specialist in the field and includes in depth discussion of the reliability of methods with appropriate references and current and future research directions It is essential reading for all students undertaking osteology as part of their studies and will also prove a valuable reference for forensic scientists both in the field and the laboratory *International Record of Medicine and General Practice Clinics* Edward Swift Dunster, Frank Pierce Foster, James Bradbridge Hunter, Charles Eucharist de Medicis Sajous, Gregory Stragnell, Henry J. Klaunberg, Félix Martí-Ibáñez, 1886 Morbidity and Mortality Weekly Report , 2007-06 **Image Principles, Neck, and the Brain** Luca Saba, 2016-04-21 Magnetic resonance imaging MRI is a technique used in biomedical imaging and radiology to visualize internal structures of the body Because MRI provides excellent contrast between different soft tissues the technique is especially useful for diagnostic imaging of the brain muscles and heart In the past 20 years MRI technology has improved si Cerebrovascular Bibliography , 1966

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