

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
Vertical 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 29 The Brain And Cranial Nerves

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Laboratory Report 29 The Brain And Cranial Nerves:

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 Hole's Human Anatomy & Physiology John Hole, 1996 **Human Anatomy and Physiology** John W. Hole, 1990 *Essentials of Human Anatomy* John W. Hole, 1992 Report on the Lancashire Sea-Fisheries Laboratory at the University of Liverpool, and the Sea-Fish Hatchery at Piel University of Liverpool. Lancashire Sea-Fisheries Laboratory, 1901 **West Virginia Medical Journal** , 1913 **A Laboratory Outline of Neurology** Charles Judson Herrick, Elizabeth Caroline Crosby, 1918 **Fetal Pig Fundamentals** Meehan, Roberta M. Meehan, 1992-03 **Annual Report** Marine Biological Laboratory (Woods Hole, Mass.), 1896 List of the publications from the Marine Biological Laboratory from its foundation to the end of 1907 included in 11th report 1907 08 p 56 100 ... **Report for the Years ...** Marine Biological Laboratory (Woods Hole, Mass.), 1902 List of the publications from the Marine Biological Laboratory from its foundation to the end of 1907 included in 11th report 1907 08 p 56 100 **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 for the Years ... , 1902 List of the publications from the Marine Biological Laboratory from its foundation to the end of 1907 included in 11th report 1907 08 p 56 100 *Cat Fundamentals* Meehan, 1992 **Laboratory**

Manual for Anatomy & Physiology Michael G. Wood, 2005 Michael G Wood's straightforward and complete lab manual guides students through hands on exercises that reinforce concepts they've learned in their anatomy physiology lecture course The full color illustrations and step by step instructions are designed to help students visualize structures understand three dimensional relationships and comprehend complex physiological processes Many of the illustrations are the same as the illustrations by William Ober and Claire Garrison that appear in Martini Fundamentals of Anatomy Physiology Seventh Edition making this lab manual a perfect companion to that textbook

National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1972 First multi year cumulation covers six years 1965-70

Report Marine Biological Laboratory (Woods Hole, Mass.), 1902

Syllabus Series University of California (System), 1927

A Laboratory Manual for Elementary Zoölogy Libbie Henrietta Hyman, 1915

Cumulated Index Medicus, 1969

Learning Human Anatomy Julia F. Guy, 1997-11 Conveniently organized by body region the second edition of this popular workbook is presented in outline format and is the perfect companion for introductory human anatomy courses in any health field The text is divided into four major body regions Lower Limb Upper Limb Head and Abdomen Thorax Each chapter includes instructional text which is complemented with illustration keys review activities and exercises and simple illustrations designed to be colored by the reader Health related profession students nursing students

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Table of Contents Laboratory Report 29 The Brain And Cranial Nerves

1. Understanding the eBook Laboratory Report 29 The Brain And Cranial Nerves
 - The Rise of Digital Reading Laboratory Report 29 The Brain And Cranial Nerves
 - Advantages of eBooks Over Traditional Books
2. Identifying Laboratory Report 29 The Brain And Cranial Nerves
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Laboratory Report 29 The Brain And Cranial Nerves
 - User-Friendly Interface
4. Exploring eBook Recommendations from Laboratory Report 29 The Brain And Cranial Nerves
 - Personalized Recommendations
 - Laboratory Report 29 The Brain And Cranial Nerves User Reviews and Ratings
 - Laboratory Report 29 The Brain And Cranial Nerves and Bestseller Lists
5. Accessing Laboratory Report 29 The Brain And Cranial Nerves Free and Paid eBooks

- Laboratory Report 29 The Brain And Cranial Nerves Public Domain eBooks
 - Laboratory Report 29 The Brain And Cranial Nerves eBook Subscription Services
 - Laboratory Report 29 The Brain And Cranial Nerves Budget-Friendly Options
6. Navigating Laboratory Report 29 The Brain And Cranial Nerves eBook Formats
 - ePub, PDF, MOBI, and More
 - Laboratory Report 29 The Brain And Cranial Nerves Compatibility with Devices
 - Laboratory Report 29 The Brain And Cranial Nerves Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Laboratory Report 29 The Brain And Cranial Nerves
 - Highlighting and Note-Taking Laboratory Report 29 The Brain And Cranial Nerves
 - Interactive Elements Laboratory Report 29 The Brain And Cranial Nerves
 8. Staying Engaged with Laboratory Report 29 The Brain And Cranial Nerves
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Laboratory Report 29 The Brain And Cranial Nerves
 9. Balancing eBooks and Physical Books Laboratory Report 29 The Brain And Cranial Nerves
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Laboratory Report 29 The Brain And Cranial Nerves
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Laboratory Report 29 The Brain And Cranial Nerves
 - Setting Reading Goals Laboratory Report 29 The Brain And Cranial Nerves
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Laboratory Report 29 The Brain And Cranial Nerves
 - Fact-Checking eBook Content of Laboratory Report 29 The Brain And Cranial Nerves
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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questions. The major responsibility for passing safely belongs to the driver who is passing. 10.3 - Study Guide For Chapter 10
Lesson 3 Roundabouts ... Roundabouts move traffic through intersections at a slower and safer pace. 10. All vehicles in a
roundabout are required to yield to pedestrians in a crosswalk. Driver Guide - Chapter 10 - Missouri Department of Revenue
CHAPTER 10 — BE IN SHAPE TO DRIVE ... These tests will help the officer decide if you should be arrested and have a
chemical test of your breath, blood, or urine. PPT - Chapter 10 PowerPoint Presentation, free download Jul 29, 2014 —
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