

## 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



**T**he 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 26 The Brain And Cranial Nerves

**Elaine Nicpon Marieb**



## Laboratory Report 26 The Brain And Cranial Nerves:

**Laboratory Textbook of Anatomy & Physiology** Michael G. Wood, 1998 For a two semester Anatomy and Physiology laboratory course An ideal companion to Martini's Fundamentals of Anatomy and Physiology 4th Edition but also appropriate for any mainstream anatomy and physiology text The first full color A P lab manual correlated to Martini FAP 4 e it can be used with other A P texts *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 **Human Anatomy and Physiology** John W. Hole, 1990 **Essentials of Human**

**Anatomy** John W. Hole, 1992 **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

**A Laboratory Guide for Histology** Irving Hardesty, 1908 Quarterly Cumulative Index to Current Medical Literature. V. 1-12; 1916-26, 1926 *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 *Texas State Journal of Medicine*, 1924 Anatomy & Physiology Elaine Nicpon Marieb, 2005 **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 Cumulated Index Medicus, 1990 **Anatomy and Physiology in Focus** Stephen G. Davenport, 1993-08 *Military Medicine*, 1921 The Military Surgeon, 1921 *The Record of Zoological Literature*, 1921 ... **Annual Report for the Year ...** Marine Biological Laboratory (Woods Hole, Mass.), 1889 **ILAR News**, 1976 *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

## **Laboratory Report 26 The Brain And Cranial Nerves** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has been evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Laboratory Report 26 The Brain And Cranial Nerves**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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Fuses and relays Honda Airwave (GJ), 2005 - 2010 Sep 24, 2021 — The fuse box is located behind the additional glove compartment. General form. Diagram ... Fuse box diagram Honda Airwave and relay with ... In the passenger compartment, the main fuse and relay box is located at the bottom of the instrument panel on the driver's side, behind a protective cover. Honda In this publication you will find information describing fuses and relays for Honda Avancer with fuse box diagrams, photographs and their locations. Select the ... Fuse Box Diagram Honda Fuse box diagrams (location and assignment of the electrical fuses and relays) Honda. Honda Airwave Owner's Manuals PDF Honda Airwave with a gasoline engine - owner's manuals. guide to repair and maintenance, wiring diagrams, operating instructions PDF free download. New Owner Airwave Fuse box ? - Tech Help Dec 5, 2017 — Hi all I have a 2008 Honda airwave that I was trying different plugs for the accesory/cigarette socket , and I think I must have blown the ... Fuse box location and diagrams: Honda Fit (GE; 2009-2014) Fuse Locations Located in the back side of the engine compartment on the left side. Push the tabs to open the box.Fuse locations are shown on the fuse box cover. Buy Fuse HONDA AIRWAVE online The best selling Fuse replacement parts for HONDA AIRWAVE are available for your in original quality from our Fuse catagory. Previous. -25%. Losing Control? Sovereignty in an Age of Globalization Immigration Tests the New Order. Economic globalization denationalizes national economies; in contrast, immigration is renationalizing politics. There is a ... Immigration Tests New Order By Sassen: A Comparative ... The book targets a specialized audience with previous knowledge and particular interest in the topic of the migration crisis. It was published in 1995 by ... Immigration tests the new order sassen - resp.app Mar 25, 2023 — Yeah, reviewing a book immigration tests the new order sassen could be credited with your close associates listings. This is just one of the ... Reading free Immigration tests the new order sassen ... Aug 14, 2023 — Yeah, reviewing a books immigration tests the new order sassen could accumulate your near links listings. This is just one of the solutions ... The Repositioning of



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