

## 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 Nerves

**Zhe Xu**



## Laboratory Report 26 Nerves:

**Human Anatomy and Physiology** John W. Hole, 1990      **The Journal of Laboratory and Clinical Medicine** , 1916  
*The Thompson Yates and Johnston Laboratories Report* , 1900      **Diagnosis and Management of Peripheral Nerve Disorders** Jerry R. Mendell, John T. Kissel, David R. Cornblath, 2001-03-08 Peripheral neuropathies represent a challenging subject for most physicians This is an up to date comprehensive and readable book on peripheral neuropathies that includes concise information on the clinical electrophysiological pathological pathogenic and treatment aspects of the most important disorders New molecular and serologic diagnostic tests are discussed Sections are devoted to nerve and skin biopsy techniques and findings quantitative sensory and autonomic reflex tests Case examples are used liberally throughout the text The editors Mendell Kissel and Cornblath are experienced clinicians that bring complementary knowledge to each of the subjects Additional authors have been handpicked for specific topics which add to the value of the edition      The Thompson Yates and Johnston Laboratories Report Thompson Yates laboratories, 1902      Annual Report of the Storrs Agricultural Experiment Station, Storrs, Connecticut for the Year Ending ... Storrs Agricultural Experiment Station, 1926      **Bulletin - Agricultural Experiment Station, North Carolina State College** North Carolina State College. Agricultural Experiment Station, 1929      **Annual Report** Ohio State University, 1917      *Essentials of Human Anatomy* John W. Hole, 1992  
*Bulletin ... the Agricultural Experiment Station ...* North Carolina Agricultural Experiment Station, 1921      *Experimental Studies on the Central Nervous System of the Guinea Pig with Particular Reference to the Pyramidal Tract* Sam Lowell Henke, 1927      *Transactions of the Section on Nervous and Mental Diseases of the American Medical Association* , 1927  
*Studies from the Division of Laboratories and Research, New York State Dept. of Health* New York (State). Dept. of Health. Division of Laboratories and Research, 1927      Reports of the Sleeping Sickness Commission Royal Society (Great Britain). Sleeping Sickness Commission, 1910      *Transactions of the Section on Nervous and Mental Diseases of the American Medical Association at the Annual Session* American Medical Association. Section on Nervous and Mental Diseases, 1927      *Biennial Report Containing the ... Annual Reports of the Storrs Agricultural Experiment Station, Storrs, Conn. for the Years ...* Storrs Agricultural Experiment Station, 1924      **The Urologic and Cutaneous Review** , 1916  
**The Journal of Pharmacology and Experimental Therapeutics** , 1924      Quarterly Cumulative Index to Current Medical Literature , 1917      **Journal of the American Medical Association** American Medical Association, 1924

## The Enigmatic Realm of **Laboratory Report 26 Nerves**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Laboratory Report 26 Nerves** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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change their bodies from corruptible to incorruptible. But we ... 6. The Future Judgment of the Believer Jun 14, 2004 — No believer will be judged at that day as the final judgment is reserved for all who rejected the Lord Jesus Christ on earth. The Judgment Seat ... God's Purpose for Israel During the Tribulation by TD Ice · 2009 · Cited by 2 — One of the major Divine purposes for the tribulation in relation to Israel is the conversion of the Jewish remnant to faith in Jesus as their Messiah. This will ... Revelation 20:7-15 "The Final Judgement" by Pastor John ... Jun 13, 2021 — We believe in the Second Coming of Jesus Christ, that He is coming in power, in glory, in majesty and that He will reign on the earth for 1,000 ... Physics for Scientists and Engineers with Modern ... Jan 4, 2016 — Physics for Scientists and Engineers with Modern Physics, 3rd & 4th Edition Solutions. Chapter 1. Chapter 1 Solutions Manual. 2 solutions. Student Solutions Manual: for Physics for Engineers and ... Amazon.com: Student Solutions Manual: for Physics for Engineers and Scientists, Third Edition: 9780393929805: Luzader, Hang-Deng, Luzader, Stephen, Marx, ... Student Solutions Manual For Physics For Scientists And ... We have solutions for your book! Solutions. Student Solutions Manual for Physics for Scientists and Engineers (3rd) Edition 0321747674 9780321747679. by ... Solutions manual for physics for scientists and engineers ... Apr 22, 2018 — Solutions Manual for Physics for Scientists and Engineers 3rd Edition by Knight Full clear download( no error formatting) at: <http://http://www.student-solutions-manual.com/physics-for-scientists-and-engineers-3rd-edition-by-randall-d-knight> ... Solutions Manual for Physics for Scientists and Engineers A Strategic Approach Vol. 2 [Chs 20-42] by Knight, Randall D. [Addison-Wesley,2012] [Paperback] 3RD Physics For Scientists And Engineers Solution Manual 3rd ... Physics For Scientists And Engineers Solution Manual 3rd. Edition Pdf Pdf. INTRODUCTION Physics For Scientists And Engineers. Solution Manual 3rd Edition ... Physics for Scientists and Engineers 3e Knight Solutions ... Physics for Scientists and Engineers 3e Knight Solutions Manual. 462 likes. Solutions manual for Physics for Scientists and Engineers: A Strategic... Physics for Scientists and Engineers: A Strategic Approach ... 3rd Edition, you'll learn how to solve your toughest homework problems. Our resource for Physics for Scientists and Engineers: A Strategic Approach includes ... Solutions Manual Physics for Scientists and Engineers 3rd ... Solutions Manual Physics for Scientists and Engineers 3rd edition by Randall D. Knight. Solutions Manual Physics for Scientists and Engineers 3rd edition by ... Student Solutions Manual: for Physics for Engineers and ... Student Solutions Manual: for Physics for Engineers and Scientists, Third Edition by Luzader, Hang-Deng; Luzader, Stephen; Marx, David - ISBN 10: 0393929795 ... Owner's manual Owner's manual. Platinum B70 Keurig® Brewer. Page 2. 2. IMPORTANT SAFEGUARDS Safe Operation & Use. When using electrical appliances, basic safety precautions ... Keurig Platinum B70 Use And Care Manual View and Download Keurig Platinum B70 use and care manual online. Gourmet Single Cup Home Brewing System. Platinum B70 coffee maker pdf manual download. Keurig Platinum B70 Coffee Maker B70 user manual Jun 23, 2020 — Keurig Platinum B70 Coffee Maker B70 user manual. Topics: manualsbase, manuals,. Collection: manuals\_contributions; manuals; ... Keurig Platinum B70 Owner's Manual View and Download Keurig Platinum B70 owner's manual online. Keurig - B70 Brewer - Platinum. Platinum

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