

LABORATORY EXERCISE 25

NERVOUS TISSUE AND NERVES

MATERIALS NEEDED

textbook
compound microscope
prepared microscope slides of the following:
spinal cord (sagittal)
dorsal root ganglion (section)
neuroglial cells (astrocytes)
peripheral nerve (cross section and longitudinal section)
neuron model

For Optional Activity:

prepared microscope slide of Purkinje cells from cerebellum

Nervous tissue, which occurs in the brain, spinal cord, and nerves, contains neurons and neuroglial cells. The neurons are the basic structural and functional units of the nervous system involved in decision-making processes, detecting stimuli, and conducting messages. The neuroglial cells perform various supportive and protective functions for neurons.

PURPOSE OF THE EXERCISE

To review the characteristics of nervous tissue and to observe neurons, neuroglial cells, and various features of the nerves.

LEARNING OBJECTIVES

After completing this exercise, you should be able to

1. describe the general characteristics of nervous tissue;
2. distinguish between neurons and neuroglial cells;
3. identify the major structures of a neuron and a nerve.

PROCEDURE

1. Review textbook sections on *neuron structure and classification of neurons and neuroglia*.

2. As a review activity, label figures 25.1 and 25.2.
3. Complete Parts A and B of Laboratory Report 25.
4. Obtain a prepared microscope slide of a spinal cord smear. Using low-power magnification, search the slide and locate the relatively large, deeply stained cell bodies of motor neurons (multipolar neurons).
5. Observe a single motor neuron, using high-power magnification, and note the following features:

cell body

nucleus

nucleolus

chromatophilic substance (Nissl bodies)

neurofibrils (threadlike structures extending into the nerve fibers)

nerve fibers (axon and dendrites)

Compare the slide to the neuron model and to figure 25.5. You also may note small, darkly stained nuclei of neuroglial cells around the motor neuron.

6. Sketch and label a single motor neuron in the space provided in Part C of the laboratory report.
7. Obtain a prepared microscope slide of a dorsal root ganglion. Search the slide and locate a cluster of sensory neuron cell bodies. You also may note bundles of nerve fibers passing among groups of neuron cell bodies (fig. 25.4).
8. Sketch and label a single sensory neuron cell body in the space provided in Part C of the laboratory report.
9. Obtain a prepared microscope slide of neuroglial cells. Search the slide and locate some darkly stained astrocytes with numerous long, slender processes (fig. 25.5).
10. Sketch a single neuroglial cell in the space provided in Part C of the laboratory report.
11. Obtain a prepared microscope slide of a nerve. Locate the cross section of the nerve, and note the many round nerve fibers inside. Nerve fiber is a

Laboratory Report 22 Nervous Tissue And Nerves

**University of Pennsylvania. School of
Medicine**



Laboratory Report 22 Nervous Tissue And 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 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

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The Journal of Laboratory and Clinical Medicine ,1916 **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

Laboratory Manual for Human Physiology Carl Gottfried Hartman,1914 A Laboratory manual for elementary zoölogy Libbie Henrietta Hyman,1919 Anatomy and Physiology Laboratory Manual Gerard J. Tortora,1986 Report of the Experiment Station Committee Hawaiian Sugar Planters' Association. Experiment Station,1906 Index-catalogue of the Library of the Surgeon-general's Office, United States Army National Library of Medicine (U.S.),1906 Report of Work of the Experiment Station of the Hawaiian Sugar Planters' Association ,1906 **Report of the President of Harvard College and Reports of Departments** Harvard University,1900 *The Annual Report of the President of Harvard University to the Overseers on the State of the University for the Academic Year ...* Harvard University,1900 **Medical Times** ,1922 *New York Journal of Homœopathy* ,1921 *Univ. of Pennsylvania Medical Bulletin* University of Pennsylvania. School of Medicine,1904 **University of Pennsylvania Medical Bulletin** University of Pennsylvania. School of Medicine,1905 The American Journal of the Medical Sciences ,1900 **Bulletin** ,1920

Reviewing **Laboratory Report 22 Nervous Tissue And Nerves**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Laboratory Report 22 Nervous Tissue And Nerves**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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