

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

Nervous Tissue And Nerves Laboratory Report 25

CH Cherryholmes



Nervous Tissue And Nerves Laboratory Report 25:

Nervous Tissue And Nerves Laboratory Report 25 Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Nervous Tissue And Nerves Laboratory Report 25**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Written 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 is key themes, examine its writing style, and analyze its overall effect on readers.

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Table of Contents Nervous Tissue And Nerves Laboratory Report 25

1. Understanding the eBook Nervous Tissue And Nerves Laboratory Report 25
 - The Rise of Digital Reading Nervous Tissue And Nerves Laboratory Report 25
 - Advantages of eBooks Over Traditional Books
2. Identifying Nervous Tissue And Nerves Laboratory Report 25
 - 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 Nervous Tissue And Nerves Laboratory Report 25
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nervous Tissue And Nerves Laboratory Report 25
 - Personalized Recommendations
 - Nervous Tissue And Nerves Laboratory Report 25 User Reviews and Ratings
 - Nervous Tissue And Nerves Laboratory Report 25 and Bestseller Lists

5. Accessing Nervous Tissue And Nerves Laboratory Report 25 Free and Paid eBooks
 - Nervous Tissue And Nerves Laboratory Report 25 Public Domain eBooks
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 - Nervous Tissue And Nerves Laboratory Report 25 Budget-Friendly Options
6. Navigating Nervous Tissue And Nerves Laboratory Report 25 eBook Formats
 - ePub, PDF, MOBI, and More
 - Nervous Tissue And Nerves Laboratory Report 25 Compatibility with Devices
 - Nervous Tissue And Nerves Laboratory Report 25 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nervous Tissue And Nerves Laboratory Report 25
 - Highlighting and Note-Taking Nervous Tissue And Nerves Laboratory Report 25
 - Interactive Elements Nervous Tissue And Nerves Laboratory Report 25
8. Staying Engaged with Nervous Tissue And Nerves Laboratory Report 25
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nervous Tissue And Nerves Laboratory Report 25
9. Balancing eBooks and Physical Books Nervous Tissue And Nerves Laboratory Report 25
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nervous Tissue And Nerves Laboratory Report 25
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Nervous Tissue And Nerves Laboratory Report 25
 - Setting Reading Goals Nervous Tissue And Nerves Laboratory Report 25
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Nervous Tissue And Nerves Laboratory Report 25
 - Fact-Checking eBook Content of Nervous Tissue And Nerves Laboratory Report 25
 - 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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