

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

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Storrs Agricultural Experiment Station



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Essentials of Human Anatomy John W. Hole,1992 Papers from the Tortugas Laboratory of the Carnegie Institution of Washington Carnegie Institution of Washington. Tortugas Laboratory,1914 Human Anatomy and Physiology John W. Hole,1990 Papers from the Tortugas Laboratory of the Carnegie Institution of Washington Carnegie Institution of Washington,Carnegie Institution of Washington. Tortugas Laboratory,1914 Quarterly Cumulative Index to Current Medical Literature. V. 1-12; 1916-26 ,1925 Journal of the American Medical Association ,1926 Includes proceedings of the association papers read at the annual sessions and lists of current medical literature **Cumulated Index Medicus** ,1969 Nuclear Magnetic Resonance Imaging in Medicine Leon Kaufman,Lawrence E. Crooks,Alexander R. Margulis,1981

Annual Report of the Storrs Agricultural Experiment Station, Storrs, Connecticut for the Year Ending ... Storrs Agricultural Experiment Station,1926 *Report* Storrs Agricultural Experiment Station,1926 *Technical Abstract Bulletin* Defense Documentation Center (U.S.),1961-07 **Quarterly Cumulative Index to Current Medical Literature** ,1917

U.S. Government Research and Development Reports ,1965 *Medical Times* ,1922 **New York Journal of Homœopathy** ,1921 **Knapp V. United States of America** ,1939 Bibliography of Scientific and Industrial Reports ,1965-07 **The Veterinarian** ,1900 **The Nervous System** Donald Bayley Tower,1975 Biennial Report Containing the ... Annual Reports of the Storrs Agricultural Experiment Station, Storrs, Conn. for the Years ... Storrs Agricultural Experiment Station,1924

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