

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 24 Nervous Tissue And Nerves

Jacob Richard Schramm



Laboratory Report 24 Nervous Tissue And Nerves:

Essentials of Human Anatomy John W. Hole, 1992 *The Laboratory Rat* Henry J. Baker, J. Russell Lindsey, Steven H. Wesibroth, 2013-10-02 The Laboratory Rat Volume I Biology and Diseases focuses on the use of rats in specific areas of research ranging from dental research to toxicology The first part of this book retraces the biomedical history of early events and personalities involved in the establishment of rats as a leading laboratory animal The taxonomy genetics and inbred strains of rats are also elaborated The next chapters illustrate the hematology clinical biochemistry and anatomical and physiological features of the laboratory rat This text concludes with a description of infectious diseases that may be contracted from laboratory and or wild rats This volume is a good source for commercial and institutional organizations involved in producing rats for research use specialists in laboratory animal animal care and research technicians as well as students in graduate and professional curricula *Quarterly Cumulative Index to Current Medical Literature. V. 1-12; 1916-26*, 1925 **Bulletin of the Johns Hopkins Hospital**, 1890 Bound with v 52 55 1933 34 is the hospital s supplement Bulletin of the Institute of the History of Medicine Johns Hopkins University v 1 2 **Johns Hopkins Hospital Bulletin** Johns Hopkins Hospital, 1890 Cornell University Announcements Cornell University, 1913 *Cornell University Register and Catalogue* Cornell University, 1915 Contributions from the Pathological Laboratory ... University of Michigan. Pathological Laboratory, 1970 **Technical Abstract Bulletin** Defense Documentation Center (U.S.), 1961-07
Catalogue ... Yale University. Graduate School, 1917 *Register* Cornell University, 1916 Toxicologic Pathology Page R. Bouchard, Pritam S. Sahota, Shannon Wallace, Zbigniew W. Wojcinski, Vanessa L. Schumacher, 2025-06-23 The new edition provides practical and timely information for toxicologic pathologists working in drug discovery and development The introductory concept chapters are consolidated into two more concise and better organized introductory chapters The two concept chapters introduce the reader to pharmaceutical R D the role of the pathologist in the process and critical partner scientific disciplines with whom the pathologist will collaborate In this revision the organ system chapters incorporate more consistent commentary and guidance on the molecular mechanism of action human translational relevance and regulatory impact of pathological findings as they are described in these chapters Key Features Aids scientists in understanding spontaneously occurring and compound related pathological findings Features three new well respected scientists on the editorial team Includes more consistent commentary and guidance in the organ system chapters *U.S. Government Research & Development Reports*, 1970 **Haschek and Rousseaux's Handbook of Toxicologic Pathology, Volume 1: Principles and Practice of Toxicologic Pathology** Wanda M. Haschek, Colin G. Rousseaux, Matthew A. Wallig, Brad Bolon, 2021-10-20 Haschek and Rousseaux s Handbook of Toxicologic Pathology recognized by many as the most authoritative single source of information in the field of toxicologic pathology has been extensively updated to continue its comprehensive and timely coverage The fourth edition has been expanded to four separate volumes due to an explosion of

information in this field requiring new and updated chapters Completely revised with a number of new chapters Volume 1 Principles and the Practice of Toxicologic Pathology covers the practice of toxicologic pathology in three parts Principles of Toxicologic Pathology Methods in Toxicologic Pathology and the Practice of Toxicologic Pathology Other volumes in this work round out the depth and breadth of coverage Volume 2 encompasses Toxicologic Pathology in Safety Assessment and Environmental Toxicologic Pathology These two sections cover the application of toxicologic pathology in developing specific product classes principles of data interpretation for safety assessment and toxicologic pathology of major classes of environmental toxicants Volumes 3 and 4 provide deep and broad treatment of Target Organ Toxicity emphasizing the comparative and correlative aspects of normal biology and toxicant induced dysfunction principal methods for toxicologic pathology evaluation and major mechanisms of toxicity These volumes comprise the most authoritative reference on toxicologic pathology for pathologists toxicologists research scientists and regulators studying and making decisions on drugs biologics medical devices and other chemicals including agrochemicals and environmental contaminants Each volume is being published separately Provides new chapters on digital pathology juvenile pathology in vitro in vivo correlation big data technologies and in depth discussion of timely topics in the area of toxicologic pathology Offers high quality and trusted content in a multi contributed work written by leading international authorities in all areas of toxicologic pathology Features hundreds of full color images in both the print and electronic versions of the book to highlight difficult concepts with clear illustrations

Biological Abstracts Jacob Richard Schramm,1929 **Register and Catalogue** Cornell University,1915
Cumulated Index Medicus ,1976 *Report of the President* University of Chicago,1900 **Biology Pamphlets** ,1905
Univ. of Pennsylvania Medical Bulletin University of Pennsylvania. School of Medicine,1904

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