

LABORATORY EXERCISE 18

SKELETAL MUSCLE STRUCTURE

MATERIALS NEEDED

textbook
compound microscope
prepared microscope slide of skeletal muscle tissue
torso with musculature
model of skeletal muscle fiber
For Demonstration
fresh round beefsteak

SAFETY

- Wear disposable gloves when handling the fresh beefsteak.
- Wash your hands before leaving the laboratory.

A skeletal muscle represents an organ of the muscular system and is composed of several kinds of tissues. These tissues include skeletal muscle tissue, nervous tissue, blood, and various connective tissues.

Each skeletal muscle is surrounded by connective tissue. The connective tissue often extends beyond the end of a muscle, providing an attachment to other muscles or to bones. Connective tissue also extends into the structure of a muscle and separates it into compartments.

PURPOSE OF THE EXERCISE

To review the structure of a skeletal muscle.

LEARNING OBJECTIVES

After completing this exercise, you should be able to

1. describe how connective tissue is associated with muscle tissue within a skeletal muscle;
2. name and locate the major structures of a skeletal muscle fiber on a model;
3. distinguish between the origin and insertion of a muscle;
4. describe the general actions of prime movers, synergists, and antagonists.

PROCEDURE

1. Review a textbook section on *skeletal muscle tissue*.
2. Reexamine the microscopic structure of skeletal muscle by observing a prepared microscope slide of this tissue. Use figure 18.1 of skeletal muscle tissue to locate the following features:

skeletal muscle fiber (cell)

nuclei

striations (alternating light and dark)
3. Review a textbook section on *structure of a skeletal muscle*.
4. Study figures 18.2 and 18.3.
5. Examine the torso and locate examples of fascia, tendons, and aponeuroses. Locate examples of tendons in your own body.
6. Complete Part A of Laboratory Report 18.

DEMONSTRATION

Examine the fresh round beefsteak. It represents a cross section through the beef thigh muscles. Note the white lines of connective tissue that separate the individual skeletal muscles. Also note how the connective tissue extends into the structure of a muscle and separates it into small compartments of muscle tissue. Locate the epimysium and the perimysium of the deep fascia.

7. Examine the model of the skeletal muscle fiber and locate the following:

sarcolemma
sarcoplasma
myofibril

myosin filament
actin filament

sarcomere

A band
I band

Laboratory Report 18 Skeletal Muscle Structure Key

RD Boyd



Laboratory Report 18 Skeletal Muscle Structure Key:

Laboratory Manual for Anatomy and Physiology Connie Allen, Valerie Harper, 2020-11-26 Laboratory Manual for Anatomy Physiology 7th Edition contains dynamic and applied activities and experiments that help students both visualize anatomical structures and understand complex physiological topics Lab exercises are designed in a way that requires students to first apply information they learned and then critically evaluate it With many different format options available and powerful digital resources it s easy to customize this laboratory manual to best fit your course While the Laboratory Manual for Anatomy and Physiology is designed to complement the latest 16th edition of Principles of Anatomy Physiology it can be used with any two semester A P text **MUSCLE BIOPSY: LAB INVESTIGATNS** Mike Loughlin, 1993-02-22

Skeletal Muscle Stephen R. Geiger, 1983 **Index Medicus** ,2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings Muscle Atrophy Junjie Xiao, 2018-11-02 The book addresses the development of muscle atrophy which can be caused by denervation disuse excessive fasting aging and a variety of diseases including heart failure chronic kidney diseases and cancers Muscle atrophy reduces quality of life and increases morbidity and mortality worldwide The book is divided into five parts the first of which describes the general aspects of muscle atrophy including its characteristics related economic and health burdens and the current clinical therapy Secondly basic aspects of muscle atrophy including the composition structure and function of skeletal muscle muscle changes in response to atrophy and experimental models are summarized Thirdly the book reviews the molecular mechanisms of muscle atrophy including protein degradation and synthesis pathways noncoding RNAs inflammatory signaling oxidative stress mitochondria signaling etc Fourthly it highlights the pathophysiological mechanisms of muscle atrophy in aging and disease The book s fifth and final part covers the diagnosis treatment strategies promising agents and future prospects of muscle atrophy The book will appeal to a broad readership including scientists undergraduate and graduate students in medicine and cell biology **Handbook of Physiology: Skeletal muscle** John Field, 1959 **Cumulated Index Medicus** ,1984 **Biologija** ,1998 Journal of Experimental Biology ,2005 **Physical Fitness/sports Medicine** ,1984 Consists of citations selected from those contained in the National Library of Medicine s Medical Literature Analysis and Retrieval System **Handbook of Physiology** American Physiological Society (1887-),1977 **Cambridge Scientific Biochemistry Abstracts** ,1992 **The Journal of Experimental Biology** ,2007 **B.A.S.I.C.** ,1968 **Downey and Darling's Physiological Basis of Rehabilitation Medicine** Erwin G. Gonzalez, Stanley J. Myers, John A. Downey, 2001 The third edition of this classic text provides a scientific basis for practicing rehabilitation medicine You will gain a more complete understanding of how physical losses affect the overall function of the patient and how the human body adapts to and compensates for the stress produced by the original injury Selected topics include adaptation and compensatory adjustments in patients with neurologic musculoskeletal and circulatory impairments International Aerospace Abstracts ,1999 Muscular Dystrophy Abstracts

,1975 **Government Reports Announcements & Index** ,1996
: **Knowledge in depth** ,2003 *Genetics Abstracts* ,2000

The New Encyclopaedia Britannica: Macropaedia

Laboratory Report 18 Skeletal Muscle Structure Key Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has be much more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Laboratory Report 18 Skeletal Muscle Structure Key**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Compiled 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 will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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Laboratory Report 18 Skeletal Muscle Structure Key Introduction

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11. Complete the table about the two categories of ... READING Chapter 7.1 Life Is Cellular | PDF READING Chapter 7. 1 Life

is Cellular worksheet. The Discovery of the Cell Seeing is believing, an old saying goes. It would be hard to find a better ...
7-1 Life Is Cellular Structures within a eukaryotic cell that perform important cellular functions are known as organelles. Cell biologists divide the eukaryotic cell into two major. 7.1 Life Is Cellular | PDF | Microscope 7.1 Life Is Cellular. Lesson Objectives State the cell theory. Describe how the different types of microscopes work. Distinguish between prokaryotes and ... Chapter 7-1 Life Is Cellular The discovery of the cell was possible due to the invention of the. 2. Who was the first person to see cells? 3. Why did he call them cells?