

## Lab Report – Skeletal Muscle

In science, reporting what has been done in a laboratory setting is incredibly important for communicating, replicating, and validating findings. However, writing scientific reports can be a little overwhelming. There are a set of agreed upon components that the scientific community requires when reporting scientific research. Answer the following questions to describe what occurred during the lab you conducted in Labster. Be sure to use complete sentences and descriptions that fully represent what you experienced. Writing a lab report is less about being correct or incorrect, than it is accurately reporting what happened and why. So, do not worry about reporting data that might seem counterintuitive or unexpected. Focus on clearly communicating what you did and what you observed.

Enter your responses on a new line.

### Title

1. What was the title of the lab you completed?

The Skeletal Muscle Lab

### Topic

2. What was the subject you were trying to understand better in the lab?

I was learning more in-depth information on the muscles we use to walk and run.

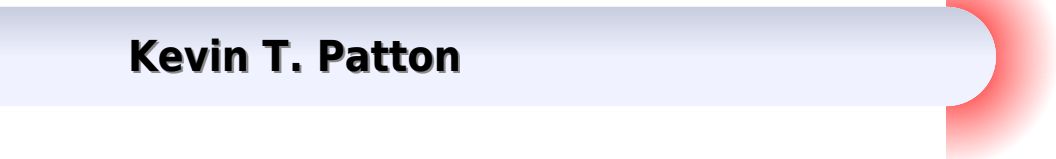
### Background Information

3. What information from the textbook and classroom is relevant for the subject you were learning about in the lab? Identify the concepts and explain how they are related to the lab topic.

In order to understand many aspects of this lab, we need a good understanding of muscle tissues. During contraction, muscle cells can shorten, which generates a pulling force. As a result of this contraction, the bones move. Skeletal muscle fibers cause bone motion, maintain posture, stabilize bones, control internal movement, and generate heat. Muscle fiber types are also discussed in the book. The three mechanisms of ATP regeneration are anaerobic glycolysis, aerobic metabolism, and creatine phosphate. The three types of muscle fibers are slow oxidative, fast oxidative and fast glycolytic. A slow oxidative fiber uses aerobic metabolism to produce high power contractions with little fatigue over an extended period. A fast oxidative fiber utilizes aerobic metabolism to produce ATP but produces a higher tension contraction than a slow oxidative fiber. Lastly, fast glycolytic fibers use anaerobic metabolism to produce more high-tension contractions but fatigue quickly.

# Skeletal Muscle Structure Laboratory Report 19

**Kevin T. Patton**



## **Skeletal Muscle Structure Laboratory Report 19:**

**Laboratory Manual for Hole's Human Anatomy and Physiology** PHILLIP. MARTIN SNIDER (TERRY.),2021

**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

**Human Anatomy and Physiology** John W. Hole,1990

**Essentials of Human Anatomy** John W. Hole,1992

**Hole's Human Anatomy & Physiology** John Hole,1996

**Laboratory Manual to Accompany Human Anatomy**

**and Physiology** John W. Hole,1984

**Concepts of Human Anatomy and Physiology** Stuart Ira Fox,1989

**Anatomy**

**and Physiology in Focus** Stephen G. Davenport,1993-08

*Explorations in Basic Biology* Stanley E. Gunstream,John

Stanley Babel,1972 *Cumulated Index Medicus* ,1972

Laboratory Animal Science ,1998

*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 The Anatomy of Necturus Lionel J.

Rosenzweig,1988

**Advanced HPC-based Computational Modeling in Biomechanics and Systems Biology** Mariano

Vázquez,Peter V. Coveney,Hernan Edgardo Grecco,Alfons Hoekstra,Bastien Chopard,2019-04-04 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied

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**National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1992      **Index Medicus** ,2004  
Vols for 1963 include as pt 2 of the Jan issue Medical subject headings      *Skeletal Muscle Pathology* Frank L. Mastaglia,John Nicholas Walton,1992 Aimed at the diagnostic pathologist and neurologist this text is organized by disease with introductory chapters on morphology immunology pathogenesis and biopsy technique The second edition includes information on pathogenesis of muscle disease      **Biological Explorations** Gunstream,1994-03      *Biomechanics of the Musculo-Skeletal System* Benno M. Nigg,W. Herzog,1999-01-25 Biomechanics of the Musculo skeletal System Second Edition Edited by Benno M Nigg and Walter Herzog Human Performance Laboratory The University of Calgary Alberta Canada This thoroughly updated and revised edition of Benno Nigg s and Walter Herzog s widely read 1994 book presents a unique and comprehensive account of the mechanics of the neuro musculo skeletal system Geared towards students and researchers of biomechanics the book covers key areas including the properties of biomaterials common measuring techniques and modelling Whilst retaining the overall structure of the original edition this second edition incorporates Extensive use of questions and answers for students at the end of sections A new chapter covering the effects of age exercise and immobility Greatly expanded treatment of bone cartilage ligaments and tendons Increased treatment of energy considerations and simulation More thorough discussions of muscle and joints Once again this well organized and authoritative book provides a comprehensive treatment of all aspects of the musculo skeletal system It is an indispensable tool for undergraduate students in mechanics or physics medical students and graduate students in engineering exercise and sport science kinesiology and indeed for all those with an interest in the biomechanical aspects of the human or animal body From the reviews of the first edition The book is an absolute must for any biomechanics course and any department with an interest in biomechanics of the musculo skeletal complex Journal of Engineering in Medicine This book is a welcome addition to the field and I recommend it to all serious students of biomechanics American Society of Biomechanics      *Government-wide Index to Federal Research & Development Reports* ,1966

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