

Lab 9: Gross Anatomy of the Muscular System

Learning outcomes of the lab exercises:

1. Describe the action and role of agonists, synergists, antagonists and fixators in muscle groups
2. Explain the criteria for naming skeletal muscles
3. Locate and identify select skeletal muscles and their actions

"Think about the things that you do each day—talking, walking, sitting, standing, and running—all of these activities require movement of particular skeletal muscles. Skeletal muscles are even used during sleep. The diaphragm is a sheet of skeletal muscle that has to contract and relax for you to breathe day and night. If you recall from your study of the skeletal system and joints, body movement occurs around the joints in the body. The focus of this chapter is on skeletal muscle organization. The system to name skeletal muscles will be explained; in some cases, the muscle is named by its shape, and in other cases it is named by its location or attachments to the skeleton. If you understand the meaning of the name of the muscle, often it

will help you remember its location and/or what it does."

I. Structure of typical skeletal muscle

- A. **Origin (=head)** = point of attachment of muscle to the stationary (=fixed) bone (usually nearer midline of body, or **proximal**)
 1. **Fleshy** = muscle fibers attached **directly** to bone
 2. **Tendon** = cord-like white fibrous CT
 3. **Aponeurosis** = broad sheet of white fibrous CT (=broad tendon) attaching to coverings of adjacent muscles
- B. **Insertion** = point of attachment to movable bone (usually farther from midline of body, or distal)
- C. **Belly (=body, gaster)** = fleshy portion between origin and insertion

II. Muscle groups

- A. **Intrinsic** = move parts of structure with respect to the structure itself (e.g., muscles controlling iris of eye)
- B. **Extrinsic** = move an entire structure with respect to body itself (e.g., muscles controlling movement of eye itself)
- C. **Prime mover** = major muscle involved in contraction
- D. **Synergists** = minor muscles aiding in contraction of prime mover
- E. **Fixators** = stabilize one or more joints crossed by a prime mover

III. Important generalities about muscle action

- A. Muscles work **only** by contraction
- B. Origin and insertion are **never** on the same bone
- C. Origin and belly are generally on one side of a joint, with the insertion on the other side
- D. During contraction, the **insertion is pulled toward the origin**
- E. **Muscles work in pairs**
 1. **Agonist** = first mover
 2. **Antagonist**
 - Relaxed when agonist contracts
 - When contracted, agonist relaxes

SELECTED SKELETAL MUSCLES

Lab Manual Gross Anatomy Of Muscular System

Sigmund Grollman



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Mosby's Anatomy and Physiology Laboratory Manual Kathleen B. Sloan,1990 **A Laboratory Manual and Study Guide for Anatomy and Physiology** Kenneth G. Neal,1983 Laboratory Manual for Clinical Anatomy and Physiology for Veterinary Technicians Thomas P. Colville,Joanna M. Bassert,2015-03-31 Learn to apply your A P learning in the lab setting with Colville and Bassert s Lab Manual for Clinical Anatomy and Physiology for Veterinary Technicians 3rd Edition This practical laboratory resource features a variety of activities such as crossword puzzles terminology exercises illustration identification and labeling case presentations and more to help reinforce your understanding of veterinary anatomy and physiology The lab manual also features vivid illustrations lists of terms and structures to be identified and step by step dissection guides to walk you through the dissection process Clinically oriented learning exercises help readers become familiar with the language of anatomy and physiology as you identify structures and learn concepts Clear step by step dissection instructions for complex organs such as the heart familiarize readers with the dissection process in a very visual easy to understand format Learning objectives the clinical significance of the content and lists of terms and structures to be identified appear at the beginning of each chapter Comprehensive glossary appears at the end of the lab manual and provides accurate concise High quality full color illustrations provides a firm understanding of the details of anatomic structure Review activities and study exercises are included in every chapter to reinforce important information Clinical Application boxes are threaded throughout the lab manual and demonstrate the clinical relevance of anatomic and physiologic principles Companion Evolve site includes answers to the Test Yourself questions in the textbook and crossword puzzles NEW Overview at a Glance sections outline the main proficiencies of each chapter and include a list of all exercises in the chapter Laboratory Manual for Beginning Gross Anatomy Don Lowell Fisher,1974 *Exploring Anatomy in the Laboratory, Second Edition* Erin C Amerman,2021-01-01 This comprehensive beautifully illustrated and affordably priced manual is appropriate for a one semester anatomy only laboratory course The unique interactive approach of these exercises helps students develop a deeper understanding of the material as they prepare to embark on allied health careers Through focused activities and by eliminating redundant exposition and artwork found in most primary textbooks this manual complements the lecture material and serves as an efficient and effective tool for learning in the lab A Laboratory Manual of Mammalian Anatomy and Physiology Sigmund Grollman,1969 **Exploring Anatomy & Physiology in the Laboratory** Erin C. Amerman,2017-02-01 Over two previous editions Exploring Anatomy Physiology in the Laboratory EAPL has become one of the best selling A P lab manuals on the market Its unique straightforward practical activity based approach to the study of anatomy and physiology in the laboratory has proven to be an effective approach for students nationwide This comprehensive beautifully illustrated and affordably priced manual is appropriate for a two semester anatomy and physiology laboratory course Through focused activities and by eliminating redundant exposition and artwork found in most primary

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Human Anatomy Laboratory Manual with Cat Dissections Elaine Nicpon Marieb,1996-06-27 *Human Anatomy and Physiology Laboratory Manual* Elaine Nicpon Marieb,1985 *Laboratory Manual of Human Anatomy and Physiology*

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Laboratory Manual Gerard J. Tortora,1986 **Laboratory Investigations in Anatomy and Physiology** Stephen N.

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