

Section Two: Chapter 13: Muscle Tissue and Skeletal Muscle System

In the body, muscle tissue plays a variety of important role across every system. Within the body there are three different types of muscle tissue: **1) Skeletal** muscle, **2) Cardiac** muscle, and **3) Smooth** muscle.

These three types of muscle are very different in their function, structure and location, and this contributes to the versatility of muscle tissue. Despite key differences in the three muscle types, there are many fundamental commonalities that all muscle tissues share. In this chapter we will examine the basic similarities that all muscle tissues have, and then focus on how each is different and distinctly suited to its particular role.

This chapter provides an initial comparison of the three muscle types in terms of general functions and characteristics as summarized in **Table 13. 1**. The emphasis then moves to an in depth exploration of **skeletal muscle**. The chapter is closed with a presentation of the nature of **smooth muscle** physiology. The details of cardiac muscle are covered in chapter 14, with other details of smooth muscle covered in the ANS, vascular and digestive physiology in chapters 9, 16 and 20.

All Muscle Tissues share General Properties

All three muscle tissues have important general properties in common, they are:

- 1) *Contractility* – muscle cells typically shorten when electrically stimulated, generating force.
- 2) *Excitability* – muscle cells respond to electrical stimulation and exhibit action potentials.
- 3) *Extensibility* – muscle tissue can stretch when a force is applied to it.
- 4) *Elasticity* – muscle tissue can recoil to its original shape when the force stretching it is removed.

How are the three types of Muscle Different?

To paint a broad picture, we can concisely distinguish the three type of muscle and their roles this way:

- 1) **Skeletal Muscle** – attached to the skeletal system (bones) – for body movement.
- 2) **Cardiac Muscle** – found in the heart – for controlling blood flow and pressure.
- 3) **Smooth Muscle** – in walls of internal organs, in blood vessels – for actions in organs and vessels.

All muscle cells have charges across their plasma membranes that can change from being polarized (very different on either side) to being depolarized (more similar). If this language sounds familiar it is because we are talking about **cell voltage** and **action potentials**. For all muscle cells, the electrical **excitation** of the **action potential** is the precursor (signal) to initiate **muscle contraction** and **generate force**. In general this is referred to as excitation-contraction coupling. The precise mechanism each muscle type engages in varies, and will be explored separately.

Control of Muscle

The term ‘control’ here means where do the signals come from that effect muscle action. In terms of **skeletal muscle**, the signals for it to contract come completely from the **nervous system**. And when skeletal muscle relaxes it is due to receiving no signal from the nerves to contract! While the nervous system can influence the excitability of cardiac and smooth muscle to some degree, both **cardiac muscle** and **smooth muscle** can respond to other stimuli, such as hormones, paracrine and other local stimuli.

Let’s now take a look at each type of muscle tissue more closely in order to understand their similarities and important differences in terms of function, location, histology and control.

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