

- **Sharpey's fibres:** the ends of muscles that attach to bone



Muscle anatomy, classification, function

LEARNING OBJECTIVES:

- ★ Understand the various classification schemes for muscles and the various terms used to describe muscle diversity.
- ★ Describe the basic structure of skeletal muscle and the sliding filament model of muscle contraction
- ★ Discuss various ways that the force production of a muscle can be altered

MUSCLE CLASSIFICATION TERMS

- **Classifying based on location**
 - **Somatic Muscles:** muscles attached to bone or cartilage
 - **Visceral muscles:** muscles that attach to organs, vessels and ducts
- **Classifying based on control**
 - **Voluntary muscle:** muscle contracts consciously
 - **Involuntary muscle:** muscle contracts unconsciously
- **Classifying based on microscopic appearance**



- **Smooth Muscle:**
 - Unstriated
 - Mononucleate
 - Involuntary
 - Slow
 - Surround stomach, blood vessels
 - Can maintain force w/o fatigue
 - **Cardiac Muscles:**
 - Striated
 - Multinucleate
 - Involuntary
 - Surround the heart, keep it pumping
 - Joined by intercalated disks
 - **Skeletal muscles:**
 - Striated
 - Multinucleate
 - Voluntary
 - Filled w' sarcomeres
 - Attach to and move the bones of the skeletal system, also surround digestive organs
- **Multinucleate vs uninucleate:** one or many nuclei in the muscle cell
 - **Striated vs unstriated:**

Muscular System Review Guide For Exam

Michael Seilmaier



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