

## Muscle tissue part 1

1. Describe the major functions, characteristics and distinguishing structural elements of skeletal, cardiac and smooth muscle

- **Skeletal muscle**
  - Long, multinucleated and connected to nerves
- **Cardiac muscle**
  - Shorter, uni or bi nucleated, branched, involuntary, connected to each other by gap junctions
- **Smooth muscle cells**
  - Short, spindle shaped, uninucleated, connected to each other by gap junctions
  - Endomysium: holds muscle cells together within muscle tissue
- **Characteristics of muscle cells**
  - **Contractility:** ability of protein fibers within myocytes to draw together
  - **Excitability:** respond to stimuli
  - **Conductivity:** conduct stimulus
  - **Extensibility:** can be stretched up to 3x resting length
  - **Elasticity:** ability to regain original state after stretching
- **Structure of muscle cell**
  - **Myocyte:** muscle cell
    - **Sarcoplasm:** myocytes cytoplasm
    - **Sarcolemma:** myocytes plasma membrane
    - **Sarcoplasmic reticulum:** modified endoplasmic reticulum
  - **Myofibrils:** unique structures found in all muscle cells
    - **Cylindrical organelles:** 100-1000s in each myocyte
    - **Bundles of specialized proteins**
    - **Other organelles packed between myofibrils**



# Muscles And Muscle Tissue Study Guide

**Yan Bai**



## **Muscles And Muscle Tissue Study Guide:**

The Top Books of the Year Muscles And Muscle Tissue Study Guide The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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