

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.

Lab Report 18 Skeletal Muscle Structure

Harvey B. Sarnat



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The Top Books of the Year Lab Report 18 Skeletal Muscle Structure The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have charmed audiences this year. Lab Report 18 Skeletal Muscle Structure : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped 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 triumph. Lab Report 18 Skeletal Muscle Structure : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing 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, entrancing 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 Popen, 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 suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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