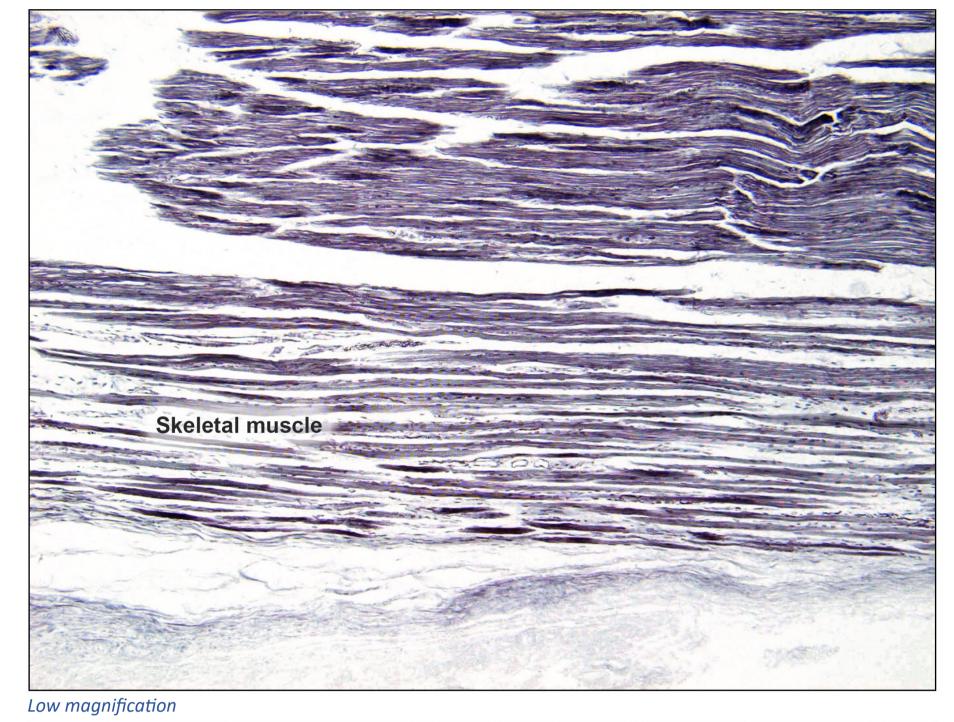
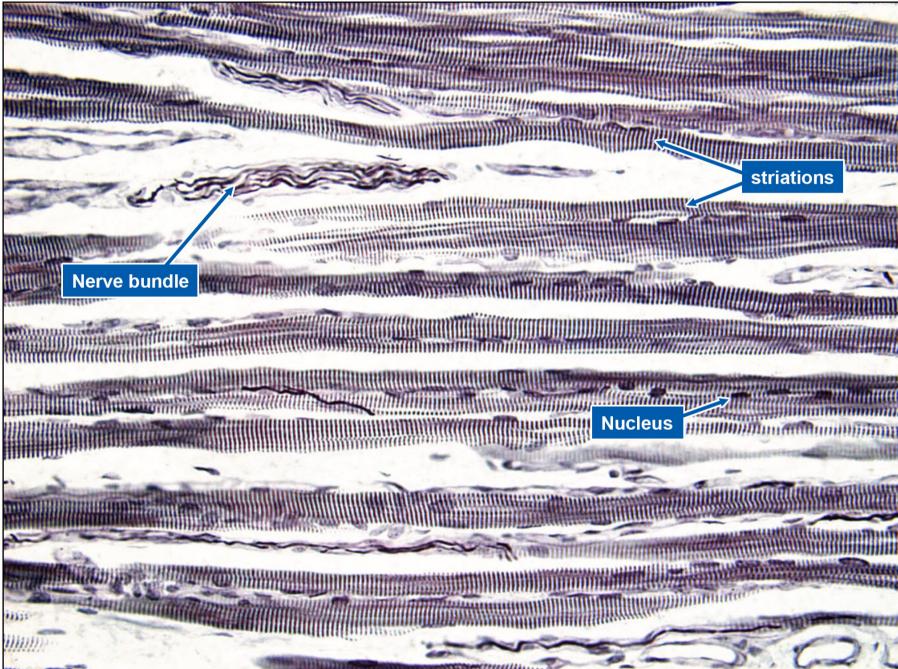
SKELETAL MUSCLE, SILVER STAIN

Musculoskeletal System

Skeletal muscle produce movements under voluntary control. Silver staining facilitates the observation of internal and extracellular components. Making the striation of skeletal muscles more visible in silver staining.





High magnification

fibres, which are straited, multinucleated cells. They also have blood vessels, nerve fibres, and connective tissues.2. Each muscle fibre is composed of myofibrils.

1. Skeletal muscles are composed of muscle

3. Myofibrils are composed of actin (thin

filaments), myosin (thick filaments), and

- support proteins (such as dystrophin).

 4. The arrangement of thick and thin filaments gives the **striated** appearance.
- Each muscle fibre also has a sarcolemma and a connective tissue known as endomysium.
- 6. A group of muscle fibres make up a fascicle, which is encased by a layer known as perimysium.
- 7. The whole muscle is covered by a thick dense connective tissue known as **epimysium**. It is continuous with the fascia and tendon which connects the muscle to the bone
- 8. Muscular dystrophy is a pathology affecting the muscle. It is an inherited condition that cause permanent muscle weakness. One of the most common types
- weakness. One of the most common types is Duchenne Muscular Dystrophy (DMD).

 9. DMD is an X linked disorder caused by the mutation of the dystrophin gene. It leads to progressive muscle wasting and

muscle degeneration due to the absence of

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dystrophin protein.