

## Nerves & Muscles Physiology

Objectives after studying this chapter, you should be able to . . .

1. Explain the genesis of resting membrane potential.
2. Describe the action potential of nerve, skeletal, cardiac, and smooth muscle fibers.
3. Expound the effect of extracellular fluid ion concentrations on the cell membrane potential.
4. Explain the mechanism of propagation of the action potential.
5. Describe rhythmicity of certain excitable tissues.
6. Expound the nerve fiber morphology, its myelination, and the nerve fiber classification.
7. Explain the synaptic transmission and neurotransmitters.
8. Expound transmission of impulses from nerves to skeletal muscle fibers: The neuromuscular junction.
9. Describe the histological appearance of the skeletal muscle fiber.
10. Explain the mechanism of muscle contraction.
11. Describe the source of energy for the muscle.
12. Characterize types of muscle contraction.
13. Expound different events-related to muscle contraction such as skeletal muscle tone, muscle fatigue, muscle hypertrophy, muscle atrophy, the staircase effect, and Relationship between muscle length and tension.
14. Describe the types of smooth muscles, and the mechanism of smooth muscle contraction.
15. Explain the difference between smooth, skeletal, and cardiac muscles.

# Nerves And Muscles Science Study Series

**M Mosston**



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Embark on a breathtaking journey through nature and adventure with Crafted by is mesmerizing ebook, Witness the Wonders in **Nerves And Muscles Science Study Series** . This immersive experience, available for download in a PDF format ( PDF Size: \*), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

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