

Contraction of Motor Units

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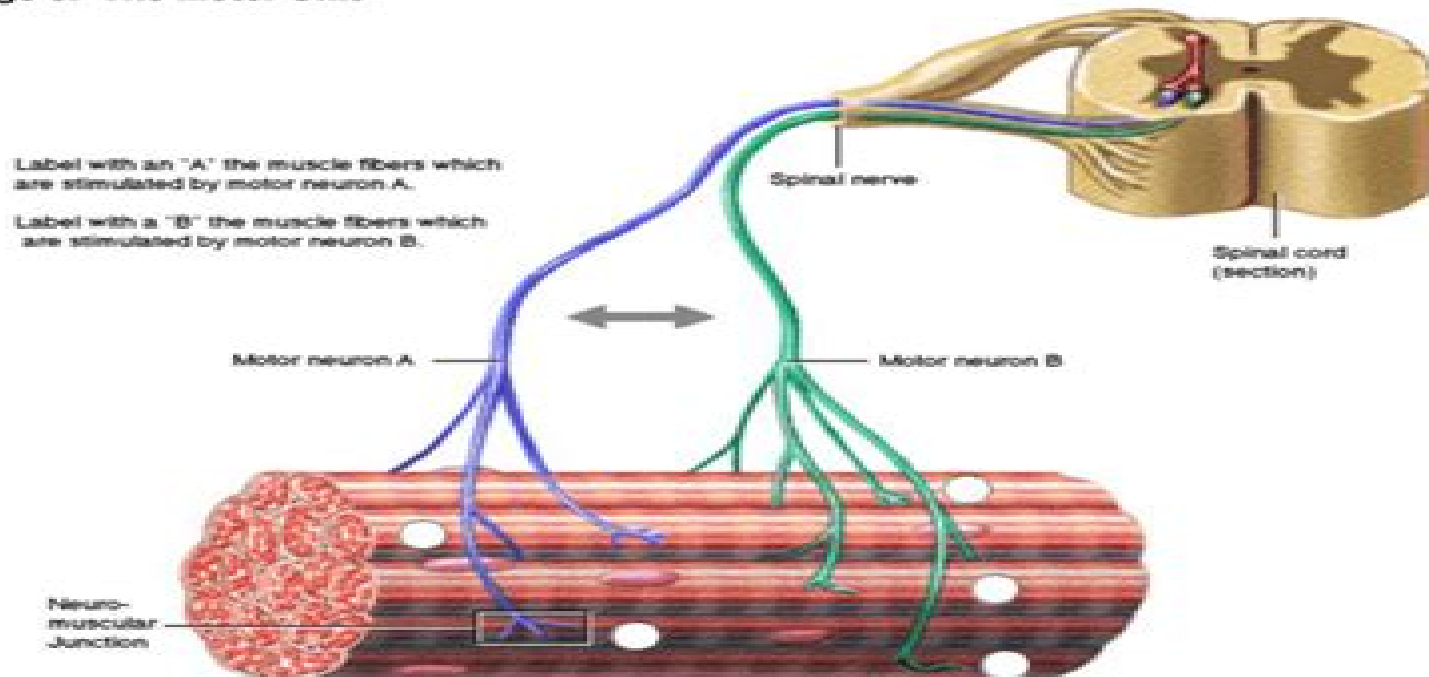
Page 1. Introduction

- A motor unit is a motor neuron and all of the muscle cells (muscle fibers) it stimulates. The strength of a muscle contraction is determined by the size and number of motor units being stimulated.

Page 2. Goals

- To examine the components of a motor unit.
- To understand the relationship between motor unit size and precision of muscle movement.
- To explore the relationship of motor units to muscle tone.

Page 3. The Motor Unit



- A motor unit is a motor neuron and all of the muscle cells (muscle fibers) it stimulates. When one neuron fires, all of the muscle cells which are stimulated by that one neuron will contract.
- On this diagram each of the two motor neurons shown have only a few junctions with the muscle cells, however the actual number can vary from four to several hundred muscle cells per motor neuron. The average number of muscle cells in a motor unit is 150.

**** Note the following important points:**

- When the nerve impulse gets down to the branches, it separates and goes down each branch.
- Only the muscle cells that have neuromuscular junctions with one of the branches of that particular neuron will contract.

Muscular System Contraction Of Motor Units Answers

AN Whitehead



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