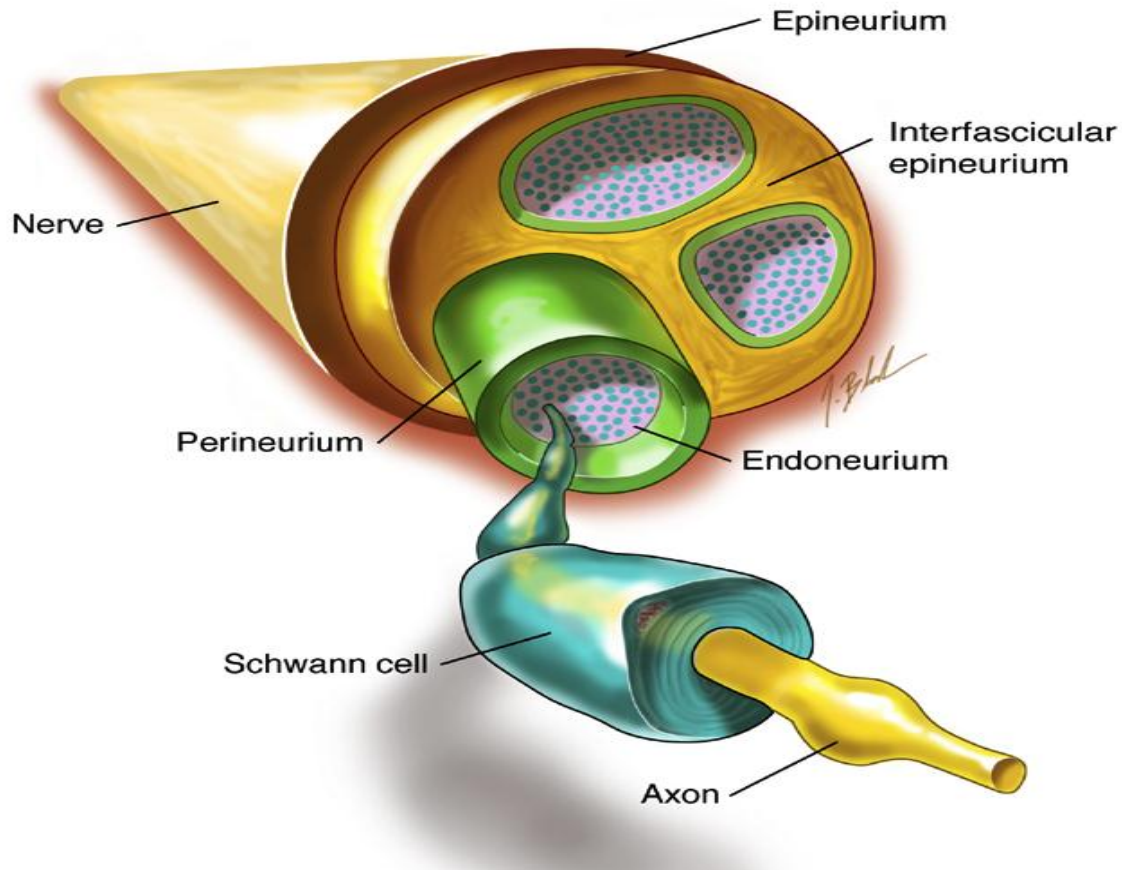


# Anatomy & Physiology

## Nervous System

### Connective Tissue of a Peripheral Nerve



#### **Parts of a Nerve**

Epineurium – Outermost covering of a nerve, bundles all nerve fibers together

Perineurium – Medial covering, bundles several nerve fibers together

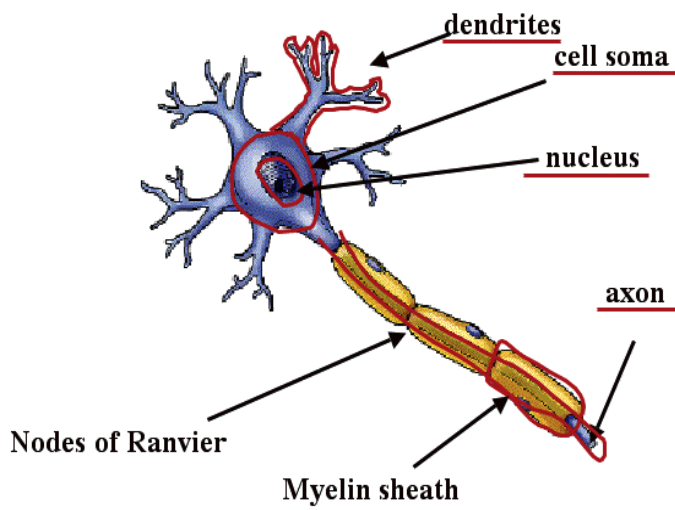
Endoneurium – Innermost covering of a nerve, covers individual nerve fibers (axons of nerve cells)

Axon – one end of a nerve cell, carries action potentials to other nerve cells, or to a destination in the body such as a muscle cell

Schwann Cell – produces myelin and wraps around the axon of a nerve to protect it and increase the speed of action potentials through a nerve

# Anatomy & Physiology

## Structure of a Neuron



### Parts of a Nerve Cell

- Cell soma – body of the cell (contains nucleus)
- Dendrites – branches off of a nerve cell, act as receptors for signals from other cells
- Axon – a single, specific branch of a cell designed for output. It carries action potentials and is covered in a myelin sheath to protect it. The spaces between Schwann cells (gaps in the myelin sheath) are called Nodes of Ranvier, which allow an action potential to “jump” from node to node causing it to travel faster.

## Types of Neurons

