I. Ilhuscle

- A. Striated usually skeletal muscles, except for tongue and eye muscles which are also striated -- the voluntary muscles
- B. Smooth or involuntary muscle tissue--lines the walls of the viscera, blood vessels, ducts of glands
- C. Cardiao-wells of the heart striated with intercal ted disks
- II. Skeletel Muscles about 45 % of body weight. About 700 muscles to move approximately 206 bones.

A. Structure

- 1. Muscle cell or fiver is about one inch to one and one half inches long, and about 10-110 microns in diameter, (reduce to millimeter micron is 1/1000 of M or 1/2500 of inch.
- 2. Sarcolemma covers muscle cell. The tendon fiber extends from the end of the cell to the tendon. The sarcolemma tends to fuse with these tendon fibers to the tendon.
- 3. Muclei are along the edge of the muscle between the sarcolemma.
- 4. Scarcostyles or fibriles are rodlike parts of the muscle. These are made up of separate compartments or segments called Sarcomeres. In these sarcomeres are light bands called the I bands (disk) and dark colored bands called the A. bands. The light colored bands contain certain potassium salts and is the fluid part. When the muscle contracts, the I bands become dark and the Q bands become lighter. The effect is like the opening and closing of a shutter. The I and A bands do not extend across the entire muscle cell. The two disks which extend across entire cell hold sarcomeres in place.

The myo-neuro-junction is the place where the nerve fiber joins the muscle cell; also called motor end plate.

Muscle cell

