**muscles**

**there are three types of muscle in the body:-**

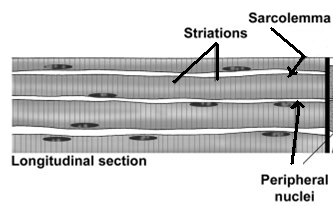
1. **Skeletal muscle**
2. **Cardiac muscle**
3. **Smooth muscle**

**Individual muscle cells are called muscle fibers. The cytoplasm of muscle fibers is called sarcoplasm. The muscle fiber plasma membrane is called the sarcolemma. The smooth endoplasmic reticulum is called the sarcoplasmic reticulum.**

**1-Skeletal muscle :**

**voluntary and striated muscle , Each muscle fiber is cylindrical, unbranched, and periphery multinucleated**

**Fibers show prominent, alternating light and dark bands (crossstriations), show the banding pattern seen at both the light and electron microscopic levels.**



2-**Cardiac muscle**

**Involuntary muscle , striated shorter than skeletal muscle , found in the heart , branched cell , have special attachment sites called intercalated disks and exhibit 1-2 central nuclei Myofilament organization into myofibrils is identical to skeletal muscle. Cross-striations and bands identical to skeletal muscle**.



**3-Smooth muscle**

**Involuntary muscle , un striated Smallest fiber type Unbranched spindle-shaped fibers are elongated with tapering ends central nucleus**

