Muscle tissue

Muscle tissue is composed of cells specialized for contraction. Muscle is classified into three types according to their structure and function:

- Skeletal muscle cells striated, voluntary control
- Cardiac muscle cells striated, involuntary control
- Smooth muscle cells nonstriated, involuntary control

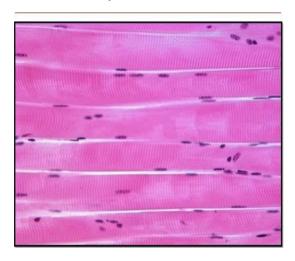
Skeletal and cardiac muscle cells are called **striated** because they show an alternating series of bands.

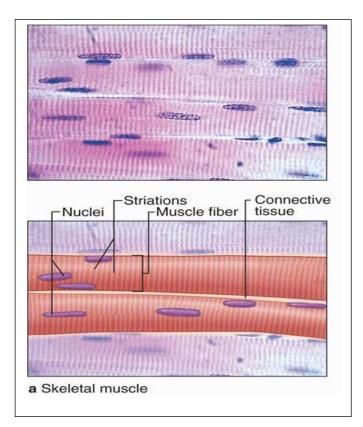
The terms muscle cell and muscle fiber are synonymous.

Skeletal Muscle

Skeletal muscle fibers are

- 1- long cylindrical.
- 2- multiple peripheral nuclei.
- 3- striated.
- 4- voluntary control.

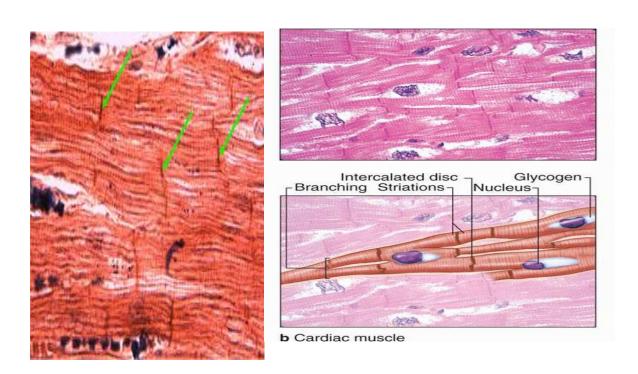




Cardiac Muscle

Cardiac muscle are

- 1- short branching fibers.
- 2- have a single, centrally located nucleus.
- 3- show the same striations as skeletal muscle.
- 4- under involuntary control.
- 5- have the intercalated disc



Smooth Muscle

Smooth muscle cells are

- 1- spindle-shaped.
- 2- have a single, centrally located nucleus.
- 3- under involuntary control.
- 4- nonstriated appearance gives rise to the name smooth muscle

