

4.6 Muscles and Types

• Myo, Mys →

MUSCLES

- Sarcolemma (membrane of muscle cell)
- Sarcoplasm (cytoplasm of muscle cell)

→ Myo-logy
→ SARCO (Flesh)
→ muscle Fiber (Skeletal, Smooth)

- More than 600 muscles (650 muscles), 640 muscles (BTB)
- More than Half of Body (40-50%)

SPECIAL CHARACTERS OF MUSCLE TISSUE :

- **EXCITABILITY** (Responsive)
- **CONTRACTILITY**
- **EXTENSIBILITY**
- **ELASTICITY**

Locomotion → Dis-placed
Movement → (Not - Displaced)

CLASSIFICATION OF MUSCLES

SMOOTH MUSCLES

- Simplest muscles
- Primitive



CARDIAC MUSCLES



SKELETAL MUSCLES

- Advanced muscles
- Modern



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- **Involuntary**
- **Unstriated**
- **Uni-nucleated**
- **Slow speed**
- **Not Fatigued**
- **Visceral Organs**
(Esophagus, Stomach, Intestine)

- Spontaneous, Stretch, Nervous System, Hormonal Control

- **Involuntary**
- **Irregular striation**
- **Uni-nucleated**
- **Intermediate**
2500 gallon/day
- **Not Fatigued**
- **Heart**

- Spontaneous

- **Voluntary**
- **Regular striation**
- **Multi-nucleated**
- **Slow → Rapid**
- **Fatigued**
- **Attached to Bones**

- Nervous System
(Somatic N-System)