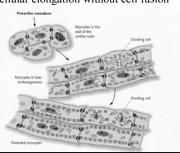
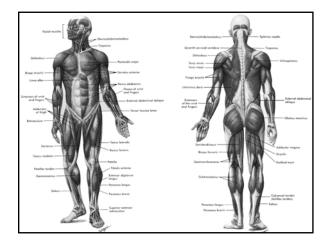
Muscle Development

Muscle types – Skeletal, Cardiac, Smooth **Smooth muscle** : Derived from splanchnic mesoderm surrounding gut. Cellular elongation without cell fusion

Cardiac muscle Derived - splanchnic mesoderm Myoblasts adhere but do not fuse Form intercalated discs





Skeletal Muscle

Head region skeletal musculature Derived from head mesenchyme Migration from the cranial somitomeres

Trunk region skeletal musculature Myoblasts derived from somites Migration - FGF controlled Spindle shaped cells - line up and fuse Multinucleated syncitium Myofibrils with cross-striations - actin-myosin

