

Topic 5: Cell Specialization & Tissues

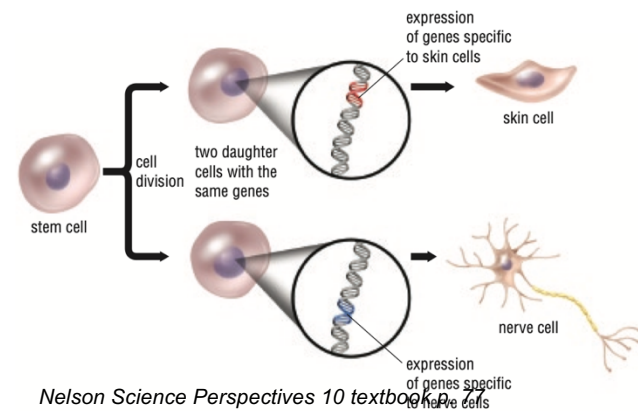
Gene regulation means:

Transcription factors are:

How are genes regulated to cause specialization/differentiation?

- _____ cues
 - Ex.
- _____ cues
 - Ex.

What is a stem cell?

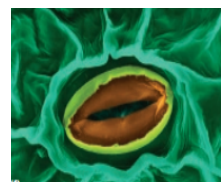


What are the 2 types of stem cells and how are they different?

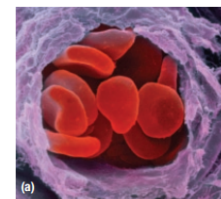
- 1) _____
→
- 2) _____
→

How does specialization help cells perform specific tasks?

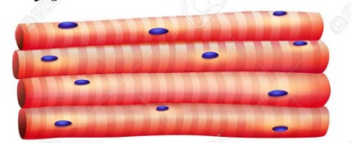
Epidermal cells



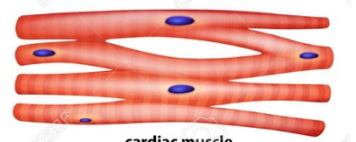
RBC



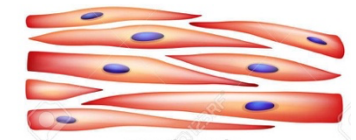
Types of Muscle Cells



skeletal muscle



cardiac muscle



smooth muscle

4 Main types of tissues:

Tissue Type	Main Function