



## Unit 2: Appendix A – Student Questions

### Howard Hughes Medical Institute video: Adult Stem Cells and Regeneration

View this video at <http://www.hhmi.org/biointeractive/stemcells/lectures.html>, then answer each question below in complete sentences.

#### Part 2

1. How is stem cell division different from that of a mature differentiated cell?
2. Why are there proportionately fewer stem cells in adult tissues than in embryos?
3. Which cells in Planaria (flat worm) are capable of regenerating an entirely new planaria?
4. What is a blastema?
5. What types of cells do the muscle stem cells become when a salamander's leg is amputated?
6. Can newts regenerate organs with stem cells? What can they regenerate?