

Student Stem Cell Study Guide

1. There are several different types of stem cells.
For each of these types of stem cells:
-Embryonic stem cells
-iPS cells (induced pluripotent stem cells)
-Adult stem cells
 - a) Where do you get each type of stem cell?
 - b) Does isolating the stem cell harm or destroy the donor of the cells?
 - c) Does the stem cell form tumors if injected into an animal?
 - d) Name some diseases and injuries that have been successfully treated in patients with these stem cells.

2. Does cloning (“somatic cell nuclear transfer”) produce a living embryo?
What can be done with the cloned embryo?

3. Is it legal in the United States to do:
 - a) human cloning?
 - b) embryonic stem cell research?
 - c) adult stem cell research?

4. Can federal government taxpayer money be used for:
 - a) human cloning?
 - b) embryonic stem cell research?
 - c) adult stem cell research?

