**Stem Cells – A Revolution in Medicine**

“Basics of Stem Cells” Quiz

1. Stem cells have three unique characteristics. Which of the following is NOT a unique characteristic?
	1. Self-renewal
	2. Multi-potential
	3. Presence of genetic material
	4. Highly-proliferative
2. These types of stem cells cannot make entire organisms, but can turn into a cell of any of the three germ layers (endoderm, ectoderm, mesoderm):
	1. Totipotent stem cells
	2. Pluripotent stem cells
	3. Multipotent stem cells
	4. Unipotent stem cells
3. These stem cells can differentiate into bone, cartilage or fat:
	1. Mesenchymal stem cells
	2. Hematopoietic stem cells
	3. Neural stem cells
	4. Skin stem cells
4. These stem cells can differentiate into many different types of blood cells:
	1. Neural stem cells
	2. Mesenchymal stem cells
	3. Hematopoietic stem cells
	4. Skin stem cells
5. Embryonic stem cells are derived from a blastocyst a few days after fertilization. It is approximately \_\_\_\_\_\_ cells large.
	1. 150
	2. 400
	3. 900
	4. 1600
6. Adult stem cells are also known as \_\_\_\_\_\_\_\_\_\_\_\_
	1. Yamanaka factors
	2. Transducers
	3. hESCs
	4. Somatic stem cells
7. iPSCs, or induced pluripotent stem cells, have four different factors used to induce them into a pluripotent state. One of these factors is
	1. hESC
	2. MSC
	3. Sox2
	4. All of the above