**Stem Cells – A Revolution in Medicine**

“Basics of Stem Cells” Questions Worksheet

**Answer the following questions.**

1. Define:
   1. Pluripotent
   2. Multipotent
   3. Omnipotent
   4. Embryonic stem cells
   5. Adult stem cells
   6. Mesenchymal stem cells
   7. Induced Pluripotent Stem Cells (iPSCs)
   8. Differentiation
   9. Proliferation
2. What are stem cells? Why are they important for humans?
3. Name some common types of cells and their stem cell precursors.
4. Where would you expect to find hematopoietic stem cells? What types of cells do hematopoietic cells differentiate into?
5. What are some of the roles that mesenchymal stem cells fulfill?
6. Can stem cells “go wrong”/function abnormally? Give an example of a condition that could be caused by these abnormal stem cells.