Week 4 Assignment

Due on 2019-06-26, 23:59 IST.

**Unit 5 - Stem cells and Cell fate processes**

**Course outline**

How to assess the portal:
- Week 4 Assignment
- Stem cells and Cell fate processes
  - Stem cells
  - Stem cell classification
  - Stem cell culture
  - Stem cell derivation
  - Stem cell differentiation
  - Stem cell generation
  - Stem cell transplantation
  - Stem cell, stem cell therapy

**Text Translates**

**1.** Analysis of a self-fate process that represents:

- Differentiation
- Reprogramming
- Cell death
- Stem cell self-renewal
- Stem cell differentiation
- Stem cell generation
- Stem cell transplantation

**2.** Mononuclear hematopoietic stem cells are:

- Unipotent
- Multipotent
- Unguided

**3.** Adherent mesenchymal stem cells are:

- Multipotent
- Unipotent
- Unguided

**4.** Neural crest cells are:

- Multipotent
- Unipotent
- Unguided

**5.** Bone marrow stem cells are:

- Multipotent
- Unipotent
- Unguided

**6.** ES from mouse or rat are:

- Multipotent
- Unipotent
- Unguided

**7.** ES cells are:

- Multipotent
- Unipotent
- Unguided

**8.** Blastocyst:

- Embryonic stem cell
- ES cells
- Defined in 1955

**9.** ES cells originate from:

- Inner cell mass
- Blastocyst
- Inner cell mass

**10.** Key feature of self-renewal is:

- Multicellular
- Nucleus and cytoplasm
- Cell division

**11.** Bone marrow stem cells are:

- Multipotent
- Unipotent
- Unguided

**12.** Neural stem cells:

- Multipotent
- Unipotent
- Unguided

**13.** FACS can be used for:

- Cell sorting
- Cell separation
- Cell purification

**14.** Finesse isolation cell sort in FACS

**15.** Intrinsic stem cells on MFC

**16.** 5 Points to 12 Points

**17.** 5 Points to 12 Points

**18.** 5 Points to 12 Points

**19.** 5 Points to 12 Points

**20.** 5 Points to 12 Points