

Stem Cells Quiz PDF

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What type of stem cells can develop into any cell type, including the placenta?
PluripotentMultipotentTotipotentUnipotent
What is the primary ethical concern regarding embryonic stem cell research?
Cost of researchGenetic instabilityDestruction of embryosTumor formation
Which technology is used to modify stem cells for research purposes?
○ Bioprintting○ CRISPR○ MRI○ Ultrasound
Which applications of stem cells are currently being explored? (Select all that apply)
 □ Regenerative medicine □ Space travel □ Gene therapy □ Cosmetic enhancements
Which of the following are ethical concerns associated with stem cell research? (Select all that apply)
Use of embryonic stem cells

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☐ Cloning of humans ☐ Genetic modification
Cost of treatment
Which of the following are types of pluripotent stem cells? (Select all that apply)
☐ Embyronic stem cells
Adult stem cells
☐ Induced pluripotent stem cells (iPSCs) ☐ Umbilical cord blood stem cells
What are potential sources of stem cells? (Select all that apply)
☐ Bone marrow
Skin cells
☐ Embyros ☐ Plant cells
Fiditi cells
What is a potential risk associated with stem cell therapy?
○ Increased lifespan
○ Tumor formation
Enhanced immunity Reduced blood pressure
○ Reduced blood pressure
Which type of stem cells are typically used in regenerative medicine?
○ Totipotent
○ Pluripotent
Multipotent
○ Unipotent
Which of the following is NOT a use of stem cells in research?
○ Disease modeling
Orug testing
Creating synthetic organs
○ Weather prediction

Explain the difference between pluripotent and multipotent stem cells.



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How does CRISPR technology enhance stem cell research and therapy?	
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Describe the process and significance of creating induced pluripotent stem cells (iPSCs).	
Describe the process and significance of creating induced plumpotent stem cens (if 50s).	
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What are the potential risks and benefits of stem cell therapy in treating diseases?	
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What are some challenges in stem cell research? (Select all that apply)	
☐ Immune rejection	
☐ High cost	

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Limited availability of stem cells	
Ethical concerns	
Discuss the ethical implications of using embryonic stem cells in research.	
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What are the benefits of using stem cells in disease modeling? (Select all that apply)	
Understanding disease mechanisms	
Developping personalized medicine	
Testing athletic performance Testing athletic performance	
Testing drug efficacy	
Predict future trends in stem cell research and their potential impact on medicine.	
Which of the following is a source of adult stem cells?	
Carlos Ca	
○ Bone marrow○ Umbilical cord blood	
Amniotic fluid	
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What is the main advantage of induced pluripotent stem cells (iPSCs)?	
They are derived from embryos	
They can be reprogrammed from adult cells	

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\bigcirc	They are found in bone marrow
\bigcirc	They are only multipotent