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Topic #7: Cloning versus Stem Cell Therapies

Pre-discussion questions. Answer briefly. Use only the space provided. Do not exceed one page.

1. Explain how Dolly the sheep was created. What types of cells were involved?
2. How did they know for sure that Dolly was a clone and not some sort of other experimental artifact? (*Hint*: Fig. 2 of the *Nature* paper)
3. If you want to clone your pet and it has already died, what should you do and not do according to the "My Friend Again" website?
4. Explain a current or future medical use of stem cells. In your answer, name a specific disease or condition and explain how stem cells could help treat that condition. (2-3 sentences)
5. How do iPS stem cells differ from ES stem cells? Explain each acronym.
6. What is one ethical issue related to the use of stem cells? Do you think this ethical issue should prevent certain types of biomedical research or therapies?