

VII. Stem Cells

Scientists are looking to stem cells for new ways to repair damaged and diseased organs, ultimately improving the length and quality of human lives.

Possible topics include: Allograft transplantation (taking healthy cells or tissues from an individual, reprogramming their function and then transplanting them back into a diseased region of the same individual); Bioprinting Synthetic Organs; Human-Animal Chimeric Cells; Reproductive Cloning; Stem Cell Research/Therapy; Tissue Scaffold Materials; Xenotransplantation (transplanting cells or tissues from one organism to another); etc...

Below, we have provided a few reputable resources to get your project started. Please do not plagiarize from these sources, but put the information in your own words. As you write the text for each section of your poster, indicate the references used in that section by using an “in text” citation (see the contest directions for more information on using references correctly). In addition to the resources provided, we encourage all contestants to seek out other scientifically reliable sources of information, media images, and artistic elements in building the Biotech Expo poster entries.

Online Resources on Stem Cells & Tissue Engineering:

California Biomedical Research Association Fact Sheets

<http://ca-biomed.org/mediakit.php>

California Healthcare Institute (CHI)

<http://chi.org/index.aspx>

California Institute for Regenerative Medicine***

<http://www.cirm.ca.gov/>

Foundation for Biomedical Research

<http://www.fbresearch.org/>

Howard Hughes Medical Institute Online Stem Cells Resources

http://www.hhmi.org/resources/science_now/stem_cells2.html

International Society for Stem Cell Research

<http://www.isscr.org/glossary/>

National Association of Biology Teachers—Ethics Resources

<http://www.nabt.org/sites/S1/index.php?p=207>

National Institutes of Health—Stem Cell Information***
<http://stemcells.nih.gov/info/basics/>

Nova: Science Now—Stem Cells Breakthrough
<http://www.pbs.org/wgbh/nova/sciencenow/0305/03.html>

Science Daily
http://www.sciencedaily.com/news/plants_animals/biotechnology/

Stanford School of Medicine—Institute of Stem Cell Biology & Regenerative
Medicine
<http://stemcell.stanford.edu/>

Stem Cell Resources: The Science of Education
<http://www.stemcellresources.org/>

UC Davis Institute for Regenerative Cures
<http://www.ucdmc.ucdavis.edu/stemcellresearch/>

UC Davis Office of Research—Stem Cell Quick Guide
<http://www.research.ucdavis.edu/home.cfm?id=SCR,9,1366>

Note: Opinions and philosophies expressed on the above websites are not necessarily those of our program and should be viewed as part of the larger societal discussion surrounding biotechnology. Use of these specific online resources is not required.

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