

#### **IV. Biomedical Applications**

Development of molecular imaging technologies, molecular diagnostics and therapeutics are revolutionizing basic research and medicine.

Possible topics for research include: Biophotonics (using lasers in medicine); Biosensors; Clinical Diagnostics; Drug Discovery; Genetic Testing; Medical Imaging; Microarrays; Virtual Surgeries; Vaccine Development; 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 Biomedical Applications & Bioengineering:**

California Biomedical Research Association Fact Sheets

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

California Healthcare Institute (CHI)

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

Centers for Disease Control & Prevention: Emerging Infectious Diseases

<http://www.cdc.gov/ncidod/eid/index.htm>

Foundation for Biomedical Research

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

Howard Hughes Medical Institute

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

National Association of Biology Teachers—Ethics Resources

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

Nova: Science Now—Aging

<http://www.pbs.org/wgbh/nova/sciencenow/3401/01.html>

Nova: Science Now—Cold Cures

<http://www.pbs.org/wgbh/nova/sciencenow/3209/05-cures.html>

Nova: Science Now—Killer Microbe

<http://www.pbs.org/wgbh/nova/sciencenow/0303/04.html>

Nova: Science Now—Personal DNA Testing

<http://www.pbs.org/wgbh/nova/sciencenow/0302/01.html>

Science Daily

[http://www.sciencedaily.com/news/plants\\_animals/biotechnology/](http://www.sciencedaily.com/news/plants_animals/biotechnology/)

***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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