

Suggested Research Topics

Chem21L, Organic and Biochemistry Lab

Topics can only be selected once, with the order of choice being Group 1, then Group 2, then Group 3 students. A chosen topic can also be not on this list upon approval by the instructor.

Suggested Topics:

1. Use and side-effects of performance-enhancing drugs in athletics
2. Stem cell research
3. Genetically modified organisms (GMOs)
4. The Human Genome project
5. Gene-replacement therapy
6. "Beginnings of life" (i.e., what elements and processes gave rise to the first cell)
7. Use and side-effects of artificial sweeteners (i.e., aspartame and high fructose corn syrup)
8. PKU screening (phenylketonuria disorder, causes mental retardation)
9. Genetic engineering
10. Cloning
11. Pathways of drug-resistance in bacteria
12. Drug therapy for cancer treatment
13. Cancer tumor suppression genes
14. Natural products syntheses
15. Colorblindness
16. Cystic fibrosis
17. Down syndrome
18. Sickle-cell anemia
19. Hemophilia
20. Fermentation and the brewing industry
21. Biofuels
22. Diabetes
23. Any other topic in biochemistry, pending instructor approval