

DNA Webquest

Visit the following websites and then write a one page summary (word processed) about all that you learned from your webquest experience.

1. Build a DNA Molecule at: <http://learn.genetics.utah.edu/units/basics/builddna/>
2. Journey into DNA (in right hand column last one down) at <http://www.pbs.org/wgbh/nova/photo51/before.html>
3. Watch Forensic DNA Analysis at <http://www.teachersdomain.org/9-12/sci/life/gen/sheppard/index.html>
4. Perform a DNA extraction at the virtual lab at: <http://learn.genetics.utah.edu/units/biotech/extraction/>
5. Learn about DNA Fingerprinting and Gel Electrophoresis at: <http://www.teachersdomain.org/9-12/sci/life/gen/sheppard/index.html>
6. Work in another crime lab at: <http://www.pbs.org/wgbh/nova/sheppard/labwave.html>
7. Match the DNA fingerprint at <http://www.pbs.org/wgbh/nova/sheppard/lab02.html>
8. Learn about Becoming immortal at <http://www.insidecancer.org/>
9. Find out a cell makes protein in Pathways to cancer at <http://www.insidecancer.org/>
10. And <http://www.teachersdomain.org/9-12/sci/life/cell/proteinsynth/index.html>
11. See firefly protein animation at <http://learn.genetics.utah.edu/units/basics/firefly/>
12. Find out about a positive gene mutation at <http://www.teachersdomain.org/9-12/sci/life/evo/hivimmunity/index.html>
13. And a negative gene mutation at <http://www.teachersdomain.org/9-12/sci/life/gen/onewrong/index.html>
14. Perform gene therapy at <http://learn.genetics.utah.edu/units/genetherapy/gttools/>
15. Treat three aliens with gene therapy at: <http://learn.genetics.utah.edu/units/genetherapy/gttools/>

16. Learn about a real life story of a 17 year old and his experience with gene therapy at: <http://www.actionbioscience.org/biotech/kolehmainen.html>
 17. Learn about the cell cycle at <http://www.actionbioscience.org/biotech/kolehmainen.html>
 18. Learn about how DNA replicates for the cell cycle at <http://www.teachersdomain.org/9-12/sci/life/cell/dnaanimation/index.html>
 19. Attend the DNA workshop at http://www.teachersdomain.org/resources/tdc02/sci/life/gen/lp_synthprotein/index.html
 20. Find out about clock genes at <http://learn.genetics.utah.edu/features/clockgenes/>
 21. Understand how cell division is related to cancer at: <http://www.teachersdomain.org/9-12/sci/life/cell/howcancergrows/index.html>
 22. Find out why we get old at <http://learn.genetics.utah.edu/features/telomeres/>
- Bonus: DNA timeline: student worksheet at <http://www.dnai.org/teacherguide/guide.html>