

DNA: Cracking Your Genetic Code Assignment

Here is the link to the streaming video if you need to see it again:

<http://www.pbs.org/wgbh/nova/body/cracking-your-genetic-code.html>

Write a one page (double spaced) paper answering the question:

“Would you want your genome sequenced so you could see what diseases you might be at risk for eventually developing or passing on to your offspring? What would be both the benefits and disadvantages of doing this? Are there other benefits to having your genome sequenced besides just knowing what genes you possess?”

Please use proper conventions in the paper. Use four paragraphs in the paper.

Paragraph 1 - Overview of the technology that is available.

Paragraph 2 - Advantages of genetic testing (one or two that are most important in your opinion)

Paragraph 3 - Disadvantages of genetic testing (one or two that are most important in your opinion)

Paragraph 4 - Your opinion/viewpoint summarized

Items you could touch on when answering:

- Benefits of Personalized medicine.
- Benefits/Disadvantages of Genetic Testing.
- Ethics of Genetic Testing.
- How Cancer & DNA are related.
- Genetic Testing and Privacy.
- “The burden of knowing”.
- If you tested positive for a cancer gene, would you tell your children?
- If you tested positive for the Alzheimer’s gene, how would it change your life?
- If you tested positive for the Huntington’s disease gene, how would it change your life?
- The reliability of consumer genetic testing from companies like 23 and me.
- How genotyping is different than whole genome sequencing.
- How the cost of full genome sequencing has changed rapidly in the last few years.
- Genetic testing on eggs/sperm- could lead to “designer babies”.
- Using genomic sequencing to find out more about your ancestry