Career Journal #8 Activity 4.3.2: Hypercholesterolemia

1) Molecular Biologist

2) A minimum of a bachelor's degree education is needed for career entry, with advanced education necessary for greater depth in research careers

3) Molecular biologists study the biochemical processes within living cells, such as genetic coding and DNA information. They experiment a lot for different research areas. Biotech companies might need molecular biologists to genetically engineer new crops to improve their health and consumption rate. Other molecular biologists may develop a new way to test the validity of drugs used to stimulate safe gene growth and fight off disease. Molecular biologists need to understand gene sequencing, cell signaling and gene expression, as well as organize and differentiate cells. They need to accurately record information and interpret results, which are to be passed on and communicated with others for non-scientific consumption.

4) Salary depends on experience, qualifications and location so it’s a range of $30,322-$94,425

5) Molecular biologist: job description, duties and requirements. (2012). Retrieved from http://education-portal.com/articles/Molecular\_Biologist\_Job\_Description\_Duties\_and\_Requirements.html

How to become a molecular biologist. (2012). Retrieved from http://tfscientist.hubpages.com/hub/how-to-become-a-molecular-biologist

6) Self reflection-A molecular biologist relates to the professional who could have diagnosed Anna Garcia’s sickle cell disease and told her of how it was passed down to her from her parents by telling her of the genetics that are behind the disease. I really like this career- I enjoyed the genetics unit in AP Biology last year- and I would definitely consider pursuing it because I think it is a job where I will be enjoying myself as well as the new research I find through the experiments I’ll be conducting.