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Final Project Proposal

11/14/2018

1. **The URL of the publicly available dataset you will be using (should also have associated metadata available).**

https://www.ncbi.nlm.nih.gov/sra/SRP051059

1. **The citation or URL of the accompanying primary journal article; this will be necessary to give you detailed info on the methods of data collection, background on the study, etc.**

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4624872/

1. **1 to 2 paragraphs describing the project and your plans for analyzing the data.**

In my first analysis report, my intention was to find the relationship between age groups and abundance and diversity of skin microbiome. I did find differences in skin microbiome in different age groups, but the sample size was too small (n=3) to come up with meaningful conclusions. For my final project, I have chosen the above article because it has a larger sample size that I could use to find out the relationship between age and skin microbiome. I plan to do the same analysis as I did in my first report, but with this larger dataset, I hope to be able to visualize trends and find results that could be possibly be statistically significant and more meaningful.

**4) Please let me know if you think this project will be doable on your own laptop or if you will need access to additional computational resources for particular parts. If you are not sure, you could send me an email or ask during/after class.**

I plan to do this project on my computer.