Shayla Ghose

HYRS – Week 1 Report

This week I have gotten comfortable using the R platform and coding for the first time while researching different strategies to explore its functions and uses. I have learned about differential gene expression analysis (DGEA), differentially expressed genes, and the difference between RNAsequencing and microarray analysis. I have gotten more familiar with using certain databases such as GEO and being able to read and summarize papers regarding DGEA. I have learned about the different types of bioinformatic graphs, the idea of controlled vs treated samples, and have learned about log2 fold changes and p-value. I was able to find the maximum and minimum value for several types of expression data in the GEO93272 dataset (raw, normalized, annotated) doing coding. I have also begun to learn how to understand, manipulate, and write lines of code in RStudio as well.