HG 236B Homework

Lecturer: David Alexander

Due Friday, May 21, 2010 in class

1. Think of an ethnic group in the United States that is more susceptible to a particular disease than the general population. Suppose we perform a genetic association study of this disease and include members of this group along with a sampling from the general population. How might the results be affected if we don’t account for ancestry in the statistical analysis? Be as specific as possible. (1-2 paragraphs)

2. How can we account for ancestry in the statistical analysis, to help prevent the problems in (1)? Describe one of the methods mentioned in lecture. Are there other potential confounding factors that should be controlled for/corrected? (1-2 paragraphs)