

Statistics For Genomics – Reading Assignment 2
Due: April 25th At the Beginning of Class

Read the papers (available from the class website):

- (1) “Statistical significance for genome-wide studies” by Storey and Tibshirani

Briefly Answer Each of These Questions:

- (1) In what way is controlling the FDR with the approach of Storey and Tibshirani less conservative than controlling the FWER using the Bonferroni correction?
- (2) Why is the FDR interpreted both as a measure of statistical significance and as a measure of the “noise” among the significant results in an analysis?
- (3) What is the definition of a q-value? How is it different than the definition of a p-value?