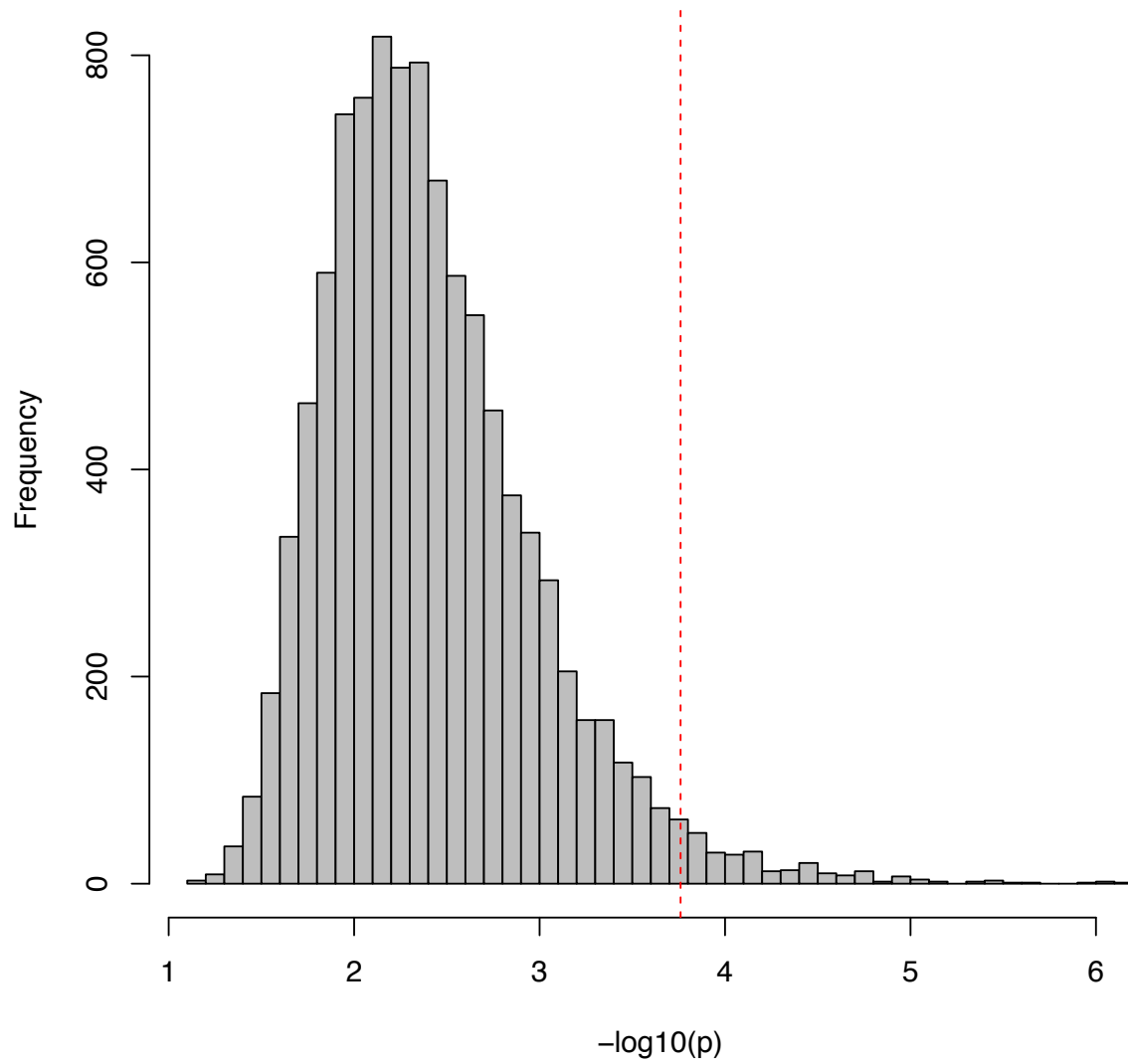S4 Fig: Histogram of 10,000 permuted p-values and the observed p-values (denoted by the red dotted line).