Testing Ideal Weinberg Populations Introduction:

The Hardy Weinberg model allows us to compare genetic structures from one population to the next generators of that population. It calculates changes in allele frequencies, and provides evidence for the occurrence of evolution in a population. In order for a population to be at equilibrium 5 conditions must be met. To reach equilibrium there must be a large population to study from. No migrations can occur because we're focusing on one population over time. The population must remain within themselves so no mutation, random matting, and lastly no martial selection can occur. All these conditions must be met to study the evolution of a given population. In the first lab that we did, most people will be able to taste the paper. In case one our initial hypothesis is that The brown in each generation will increase in population as the gold in each generation decreases in population. In case study two we assume that the homozygous recessive individuals won't survive. But the heterozygous and homozygous dominant would always survive.

Materials and procedures:

Paper Baas

25 brown beads 25 white beads PTC Papers

For the PTC paper lab we began by using the PTC taste-test papers provided and pressing it to the tip of our tongue. PTC tasters will sense a bitter taste while nontasters sense nothing. We then calculated the frequency of tasters by dividing the number of tasters in the class with the total amount of students in the class. As for calculating the frequency of nontasters, you can do so by dividing the number of nontasters to the total number of students. We then used the Hardy-Weinberg equation to determine the frequencies of the two alleles. The frequency of q can be found by taking the square root of q^2. After q was calculated, we were able to determine p because 1-q=p. Then we calculated values of p and q for the North American Population. After determining these numbers we later then recorded the values onto the table.

First what we had to do was make sure we had a "population" of 50 beads. The population consisted of 25 being white and the remaining 25 brown. We needed to record each generation. We chosen at random 5 beads that were our "dead" population and placed them into a bag that was labeled R.I.P. After those were taken out, we were given 5 more beads to be placed

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