

Name _____

Pre-Lab: Aipotu IV

1) On page Aipotu IV-3, the Lab Manual described a color trait with two alleles, red (R) and white (r). On page Aipotu IV-7, the Lab Manual describes a population that consists of 100 Rr individuals only. Is this population at Hardy-Weinberg Equilibrium (HWE)? Justify your answer mathematically.

2) Using the description of how to make a gene found on pages Aipotu IV-16 and -17 and in the Aipotu III lab manual (see link on the OLLM), give the DNA sequence of a gene that encodes a protein that is 3 amino acids long. You need only give the top DNA strand.

