

ANSWER SHEET – Lab 2: Hardy-Weinberg

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Section: 2014 478

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1. Using the formulas listed in the lab sheet, calculate the **observed** genotype and allele frequencies. Record them below.

$$f \text{ RR} = 250/1000 = 0.25$$

$$f \text{ Rr} = 500/1000 = 0.5$$

$$f \text{ rr} = 250/1000 = 0.25$$

$$p = 0.5$$

$$q = 0.5$$

2. Calculate the **expected** genotype frequencies and record them below.

$$p^2 = 0.25$$

$$2pq = 0.5$$

$$q^2 = 0.25$$

3. Use the expected genotype frequencies above to establish the expected number of **individuals** of each phenotype in a sample of 200 under Hardy-Weinberg equilibrium

$$\text{RR} = 50$$

$$\text{Rr} = 100$$

$$\text{rr} = 50$$

4. Fill out the table below to calculate the χ^2 value and transcribe H_0 and H_a below it.

Phenotypes	Observed (O)	Expected (E)	(O - E)	(O - E) ²	(O - E) ² / E
Red	26	50	24	576	11.52
Pink	70	100	30	900	9
White	104	50	54	2916	58.32
	200	200		$\Sigma \chi^2 \text{ value} =$	78.88

H_0 : Non random mating does not disrupt Hardy-Weinberg equilibrium

H_a : Non random mating does disrupt Hardy-Weinberg equilibrium.

5. a. Is the greenhouse population in Hardy-Weinberg equilibrium?

The green house population is not in Hardy-Weinberg equilibrium because non random mating does disrupt the Hardy Weinberg equilibrium.

b. What would be a possible biological explanation for the results of your experiment? (Hint: think about the pollinators as mediators of plant mating)

The pollinators didn't randomly pollinate since the white flowers were preferred according to our data.

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