Uta Stansburiana Captures- Round Two (4/24/08) Zyanti

Totals

Uta

35

S. Occidentalis

8

Zyantı Uta Stansburiana						
Color						
BY	M	spots/bars				
BY	F	chevron				
BY	F	barred				
ВО	F	striped				
ВО	F	bar/chevron				
ВО	М	striped				
ВО	F	striped				
ВО	F	chevron				
BY	F	striped				
BB	F	chevron				
ВО	F	partial chevron				
BY	M	dash /striped				
BY	M	chevron				
ВО	М	chevron				
BY	F	chevron				
BY	М	spot/dash				
ВО	M	striped				
BY	F	chevron				
00	M	spotted				
BY	M	chevron/stripes				
BY	M	chevron				
BY	M	spotted				
BY	F	chevron				
YY	F	striped				
ВО	M	chevron				
BY	F	striped				
BY	M	striped				
ВО	F	chevron				
ВО	F	striped				
BY	M	spotted				
00	F	striped				
BY	М	chevron				
BY	М	spots/chevron				
BB	М	spotted				
ВО	М	spotted				
BY	F	striped				

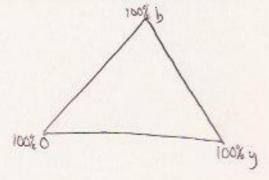
This assignment, although already turned in, can be redone if you'd like to have this graded as opposed to the one originally handed in (I advise this option).

Step 1: Find allele frequencies

- a. Find allele frequencies for the entire population and,
- b. Find allele frequencies for different sexes.

$$S(0) = \frac{N_{00} + \frac{1}{2}N_{00} + \frac{1}{2}N_{00}}{S(0)} = \frac{N_{00} + \frac{1}$$

Step 2: Plot frequencies onto the PDF plot online



Step 3: Determine the chi-square for Uta and Sceloporus

This assignment has not yet been turned in and is due on Tuesday, May 13th. The first Uta assignment, if you have chosen to redo it, will be due on the above date as well.

Step 1: From the Nacimiento data, find the allele frequencies for the total population only. Pool the sexes.

Step 2: Pool the sexes and do a chi-square for Nacimiento genotypes.

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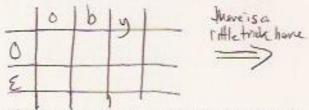
Step 3: Using the **second** *Uta* data from 4-23-08, as you did in the first assignment, find the frequencies for the entire population and for both sexes. Compare allele frequencies between the sexes.

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Step 4: Compare Nacimiento vs. Zayante individuals (not allele frequencies).

	00	be	190	pp	by	1991
Zazante						
Maximiento						
			-			

Step 5: Run a chi-square of Nacimiento allele frequencies.



Step 6: Plot both Zayante and Nacimiento frequencies onto the triangular genotype graph.