

CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s)	Project Number
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	22194
Project Title	2
Effects of Auditory Familiarity in Mate Selection for Agneta domesticus	
Abstract	
Objectives/Goals	
The objective of my project is to determine if the familiarity of a male house c effect on the length of each male#s courtship call and female mate selection.	naket#s chirps will have an€
Methods/Materials (
Cricket nymphs were sexed and separated into one group of females and two g mature, one male group was placed in a box next to an aquarium with a group	of females and were
allowed one week to hear each other#s chirps. Female crickets were placed in	dividually in observation
chambers with males whose chirps they have heard, other females with reales heard, and some females with both. The mate selection, making call lengths are	whose chirps they have not
mating process were timed and recorded.	id other key points in the
Results Famalas preferred familiar males over unfamiliar males als	o had to produce a longer
Females preferred familiar males over unfamiliar males. Unfamiliar males also had to produce a longer mating call than the familiar males before the female would mount the male.	
Conclusions/Discussion I concluded that auditory familiarity does have an effect on mate selection and mating call length.	
r concluded that additory familiarity does have an effect in hard selection and mating can length.	
Summary Statement	
I tested to see if the familiarity of a male cricket#s chirps had an effect on feminating call length of placing females in observation chambers with familiar or	
some with both.	diffullifial filales, and
Help Received	
I have the control of	