

CALIFORNIA STATE SCIENCE FAIR 2003 PROJECT SUMMARY

Name(s)	Project Number
Sara Carman; Rachel Enriquez	11/06
	J1400
Project Title	
There's a Fly in My Ginseng!	
incre s'u riy in wry Ginbeng.	
Objectives/Goals Abstract	
The purpose of this experiment was to determine if E. senticosus (Ginseng) cau D. malanogastar (fruit flies). A lateal mutation will result in the absence of any	ses mutagenic effects on
Experimental F2 generation.	red eye males in the
Methods/Materials	
A population of over 100 Wild Type male fruit flies were administered an LD(50)dose [0.0216g] of Ginseng via food medium. They were then bred with virgin Muller-5 female fruit flies to producce an F1	
generation. The F1 were allowed to breed again and produce an F2 generation. The F2 generation were	
sorted according to gender and specified phenotypes. A phenotipic ratio was ca	lculated.
Nineteen percent of the Experimental F2 Group was White eve male and 25% y	was red eve male. The
resulting F2 generation ratio of 1:1:1:1 indicated that a lethal mutaton did not e	xist.
Conclusions/Discussion E senticosus does not induce mutagenic effects on D melanogaster, therefore (our hypothesis was
incorrect. However, after thoroughly analyzing our results, and closely comparing the eyes of the red eye	
Wild Type males in the Experimental Group to the red eye Wild Type males of	the Control Group, there
a slight vellowish tint. The difference between the two colors is miniscule, but	a spectra files eye's have enough to give us an
incentive to continue on with this project.	
Summowy Statement	
Our project tests the effects of E senticosus (Ginseng) on D melanogaster (fruit flies)	
Sur project tests the critects of L. senticosus (Ginseng) on D. metanogaster (nu	
Help Received	
Ms. Carman helped us setup our project.	