

CALIFORNIA STATE SCIENCE FAIR 2005 PROJECT SUMMARY

Name(s)	Project Number
Raymond Cho	11610
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Project Title Are We Eating Genetically Modified Papaya?	
Abstract	
Objectives/Goals	
My goal of this project is to find out what percent of Calif angineered and whether the genetically angineered paper	forma's Hawaiian papaya is genetically
Methods/Materials	a tastes different from normal papaya.
50mg X-Gluc: 100ml Phosphate buffer saline: 1 Microsco	ope: 1 Digital camera: 1 pipetman: 1 surgical
knife; 1 tweezer; 12 petri dishes; 1 tupperware.	······································
a. Buy some papayas	
b. remove all the seeds	
c. remove jelly coat off the seeds	
a. cut open seeds in nalf	
f apply X-Gluc and phosphate buffer saline	
g. put petri dishes into the tupperware	
h. wait 24 hrs.	
i. record number of genetically engineered seeds	
j. take pictures	
k. eat the papayas Bosults	
Every single papaya that I had bought had some genetically engineered seeds. Some of them even had	
almost 50% of their seeds genetically engineered. The tast	e of the genetically engineered papayas were
identical to the normal papayas.	
Conclusions/Discussion	
Majority of the Hawaiian papaya that which I tested were genetically engineered because of	
genetically engineered	
geneticuity engineered.	
Summary Statement	
We are eating genetically modified hawaiian panavas	
e ale eating genericany mounted navianan papayas.	
Help Received	
Dr.Melanie Bondera for providing positive seeds and proc	cedure on how to do this experiment; Mother for
going out and buying papayas; Father for letting me use h	is laboratory and buyinf the necessary supplies.