

## CALIFORNIA STATE SCIENCE FAIR 2014 PROJECT SUMMARY

Name(s)	Project Number
Edwin Campos; Angel Rodriguez	<b>S0503</b>
Project Title	
Do Different Types of Cacti Help Disperse Oil More	Efficiently?
Abstract	
Objectives/Goals  The objective of this study is to determine whether or not cacti are a better not Methods/Materials	atural oil dispersant.
Four types of cacti, which are easily grown in the United States, were used in Vera, barrel cactus, and prickly pear tuna. Extracts of each experimental cac separately in four test tubes. Then, 2 ml of each extract were combined and p Eighteen (18) test tubes with six milliliter of water and one milliliter of olive of the five extracts, and three test tubes for the control (detergent solution) w Three trials for every solution was conducted for a more accurate outcome. One was added to its corresponding test tubes. The mixtures were allowed to reach day, test for fats was conducted using Sudan IV and paper test.  Results  The result showed that the combined extract worked efficiently in dispersing in dispersing oil was as follows: combined extract, prickly pear, golden barred and Aloe Vera.  Conclusions/Discussion  The results further showed that the solution that contained all three extracts of efficiently than the detergent.	ti were collected and stored placed in a fifth test tube. e oil (three test tubes for each were set up for the experiment. One milliliter of each extract et for three days. On the third g oil. The order of efficiency el cactus, prickly pear tuna,
Summary Statement  In our project we tried to find a natural oil depressant that can work more effects of the state of the	ficiently than a detergent
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Help Received	