

CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s)	Project Number
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	22398
Project Title Bootonia Villon	
Bacteria Killer	κ ∂
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Objectives/Goals Abstract	
My objective is to find out which kind of anti-bacterial soap would kill the mos	tbacteria. My hypothesis
is that Ajax will be the most affective. Methods/Materials	\bigcirc
I agle d the realizations to not their bands in the dist baking the aloss form in 2	serond. I use a sterile sw€
and streak it across their hand then onto a plate of nutrient agar. gave each vo	unteer a different brand €
soap with a certain amount. I use 5 different brands of solp, Ajax, Equat Diar three volunteers I asked them to wash their hands with just water. The volunteer	, Softsoap, and Ivory. For rs washed their hands for
and streak it across their hand then onto a plate of nutrient agar. I gave each vo soap with a certain amount. I use 5 different brands of soap, Ajax, Equate Diar three volunteers I asked them to wash their hands with just water. The voluntee one minute. After one minute, I use a sterile swab and streak it across their hand	ds then onto a plate of
i nutrient agar. I let the bacteria on the agar to grow for two days. After wo days	, I counted the bacteria
colonies on the agar plates and recorded my data. In the end, I gram stained the colonies, to see if they are gram negative or positive. I followed the instructions	an the gram staining kit
Results	
After comparing the results, all the data varied. After had the lowest amount of handwashing. The one with the most bacteria colonies was hory. While the contract of the second	bacteria colonies after
volunteers varied from 0-18.	ittois of the three
Conclusions/Discussion	
My conclusion supported my hypothesis, and Ajax was the most affective in re Although, the low bacterial counts from the control plates suggest that just usin rubbing the hands is as affective as using the soap. So it is difficult to really con is the most affective, because each person has a different style of rubbing their	ducing hand bacteria.
rubbing the hands is as affective as using the scap. So it is difficult to really con	clude which brand of so€
is the most affective, because each person has a different style of rubbing their	hands and that could affec€
the results.	
Summary Statement	
I want to find out which kind of soap would be most the affective for destroying	g bacteria.
Help Received	nad slides of bastaria
I use the microscope at Fresno State University to take pictures of my gram static colonies with Dr. Wright.	neu shues of valienta