



**CALIFORNIA STATE SCIENCE FAIR  
2012 PROJECT SUMMARY**

<b>Name(s)</b> <b>Emilia Abdollahian</b>	<b>Project Number</b> <b>J2001</b>
<b>Project Title</b> <b>Do Green Cleaning Products Get Rid of Bacteria Better Than Ammonia Base Cleaner?</b>	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> I am doing this project because I know now days everyone wants to be cool by going green, but is it worth it if it's not eliminating bacteria?</p> <p><b>Methods/Materials</b> I used 20 petri dishes, and I tested bacteria from a bathroom doorknob and a kitchen sponge. The green cleaners I tested were Green Works and Mean Green and the two ammonia base cleaners I tested were Lysol and 409. My control variable was water. I first swabbed the bathroom doorknob then I swabbed it on the petri dish. Next I whole punched filter paper and dipped it into the cleaner. Finally, I placed it on the petri dish. I did these steps for all of my variables and with both of my bacteria. On day 3 I measured the inhibition rate then again I measured the inhibition rate on day 5.</p> <p><b>Results</b> I found that Green cleaners do not decrease bacteria population at a higher rate than standard ammonia base cleaners. I also found that Lysol eliminated bacteria the best followed by 409 then Mean Green and finally Green Works.</p> <p><b>Conclusions/Discussion</b> I found that even though Green Works was the most expensive cleaner it only worked as well as my control variable, which was water. I know it's important to save the environment, but if green cleaners don't eliminate bacteria, then the earth can be contaminated with so many bacteria.</p>	
<b>Summary Statement</b> Are green cleaning products decreasing bacteria population as well as standard household cleaners?	
<b>Help Received</b> Mr. Gong helped with me do my flowchart.	