



**CALIFORNIA STATE SCIENCE FAIR  
2007 PROJECT SUMMARY**

<b>Name(s)</b> <b>Zachary C. Radovich</b>	<b>Project Number</b> <b>J1829</b>
<b>Project Title</b> <b>Germ</b>	
<b>Abstract</b> <b>Objectives/Goals</b> The objective of this experiment was to find which household cleaning products were most effective in killing germs. Vinegar will be the most effective household cleaning product in killing germs. Water will be the least effective. <b>Methods/Materials</b> Raw hamburger was rubbed on nutrient agar in ten labeled petri dishes. 10 labeled disks were soaked in each cleaning product and water, which was the constant. One of each disk was placed at equal intervals in each petri dish. Petri dishes were incubated for several days in a dark, warm closet. The zone of inhibition was measured and recorded. The values were added together to determine the average zone of inhibition for each product. <b>Results</b> Clorox Clean Up was the most effective household cleaning product in killing germ, with an average zone of inhibition of 13.5mm. Water was the least effective, with an average zone of inhibition of 0.7 mm. <b>Conclusions/Discussion</b> The results from this experiment did not support my hypothesis. The household cleaning products used were not as effective at killing germs as the had claimed.	
<b>Summary Statement</b> To determine which household cleaners are the most effective in killing germs.	
<b>Help Received</b> Mrs. Parker supplied the nutrient agar. Bridget helped me keep organized and helped with the typing. My mom for picking me up late after school when I stayed late to work on my project.	