

## CALIFORNIA STATE SCIENCE FAIR 2007 PROJECT SUMMARY

Name(s)	Project Number
Fritz Foo	S1413
Project Title	
Capsaicin and Microbial Relations	
Objectives/Goals Abstract	
The objective of the experiment was to test whether capsaicin would bacterial strains. The swabbed bacteria came from a household batt phlegm from a sore throat, representative of indoor, outdoor, and so conducted to primarily fuel my own curiosity and also set out to pr eating chili peppers can reduce the chances of catching a cold. After that capsaicin would inhibit bacterial growth due to its caustic natu	hroom, under a cat's claw, and human omatic bacteria. The experiment was ove or disprove the old wives' tale that er my initial research, I hypothesized
Methods/Materials The project consisted of 35 petri dishes, 25 of which were pre-prep with an autoclave. The pre-prepared dishes came with a special pre blank plates were filled with Luria agar. Approximately 750 kilogr prepare a capsaicin glaze. Initial bacterial strains were taken from t transferred to the actual plates used in the experiment. In the control in the variable group, a capsaicin spread was added on one-half of	e-manufactured agar solution, whil the ams of Habenero Chilis were used to the aforementioned sites, cultured, then ol plates, nothing was added; however,
<ul> <li>Results <ul> <li>After seven days of data collection, a conflict of quantitative versus the data gathered from random sampling, the capsaicin showed no stimulated bacterial growth. However, based on visual qualitative of group had produced larger, albeit less defined and countable colonid growth patterns suggest the capsaicin had effectually dispersed the colonies, whereas the control group lived in dense colonies near on</li> <li>Conclusions/Discussion</li> <li>After careful analysis of the quantitative and qualitative data, the or because, as proven under the microscope, it was clear the control g healthier colonies and larger areas of dense colonies. The bacteria e populated. Based on the results of this experiment, I would be willi right eating chilis may deter illness.</li> </ul> </li> </ul>	effect and, in some cases, even data, it was obvious that the control ies. Under a light microscope, the bacteria into roaming, isolated he another. riginal hypothesis can be validated group (unaffected by capsaicin) had existent on the capsaicin were sparsely
Summary Statement	
Capsaicin and Microbial relations discussed the effect of capsaicin peppers reduced the number of bacterial colonies.	on bacterial growth; all-in-all, the
Help Received	
Mrs. Pearce for providing me the incubator and teaching me how to providing the petri dishes and agar plates; My parents for allowing biohazardous site; My cat for allowing me to swab his claws	