

CALIFORNIA STATE SCIENCE FAIR 2014 PROJECT SUMMARY

Name(s)

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Project Number

J1518

Project Title

Who Let the Germs Out?

Abstract

Objectives/Goals

The objective of this experiment was to find whether the inside or the outside of bathroom door handles had more bacteria.

Methods/Materials

I swabbed the inside and outside of each door handle four times up and down at three separate restaurant bathrooms. My materials were forty petri dishes filled with agar, forty sterilized Q-tips, distilled water, forty micro test tubes, ziploc bags, an incubator, gloves and graph paper.

Results

The result of my experiment was that overall, In-N-Out Burger had the most amount of bacteria of the three restaurants tested. The petri dishes from all three restaurants showed more bacteria growth for the inside door handles than the outside door handles.

Conclusions/Discussion

My hypothesis was that there would be more bacteria on the outside door handles than the inside door handles because people wash their hands before leaving a restroom. This hypothesis was proven incorrect. With the information from my research collected from this experiment we can teach people about the importance of hand washing, also we can inform people of the need to wash your hands both before and after using public bathrooms. From doing this project I have learned that many germs can be transferred from surface to surface and that we need to be more aware of the dangers of getting sick from touching these surfaces.

Summary Statement

This project was to test whether there is more baceria on the inside or outside of door handles at public restrooms.

Help Received

My father help me calculate pertcentages and my mom drove me to the resturants