



CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY

Name(s) Alyssa N. Warren	Project Number 22064
Project Title Gesundheit	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals To see if germs from one sneeze could contaminate an entire room.</p> <p>Methods/Materials Prep Procedures a)Create temperature-controlled environment; b)Create map showing placement of each petri dish on graph paper; c)Spread drop cloth on floor; d)Mark locations from graph paper onto drop cloth; e)Hang another drop cloth over doorway. Control, Tests 1 & 2 Procedures a)Label set of petri dishes; b)Place petri dishes in designated locations on drop cloth; c)Take lids off dishes & note time uncovered; d)Sneeze (Test 1 & 2 only); d)Expose dishes for 1hour; e)Cover dishes & place in incubator; g)Repeat steps a-e for each Control, Test 1 and Test 2 dishes 24-hour, 48-hour, & 72-hour Observation Procedures a)Take out one set of dishes; b)Take picture of all dishes together; c)Observe each dish; d)Take a picture of each dish by itself; e)Repeat steps a-d for Test 1 and Test 2 dishes; f)Repeat steps a-e for 24 hour, 48 hour, and 72 hour Disposal Procedures a)Tape all dishes closed; b)Place dishes in a plastic bag; c)Place bags in bio-hazardous waste bags; d)Deliver bags to disposal service</p> <p>Results There were more types of germs in the room after the sneeze. On average a control dish had 2.2 different colonies, a Test 1 dish had 3 different colonies, and a Test 2 dish had 2.8 different colonies. This shows control dishes had less types of germs than Tests 1 & 2.</p> <p>Conclusions/Discussion Germs from a sneeze can contaminate a whole room. My hypothesis was correct because the dish farthest from the sneeze had germs in it that weren't on the dish in the control. This shows that other germs from the sneeze traveled to the back of the room. One thing that was strange is how Test 1 and 2 had more fungus. A person cannot sneeze fungus. Since there was one small fungus in the control, I think that fungus was in the room to begin with. A problem I had is that fungus took over some dishes, which stopped other bacteria from growing. If there hadn't been any fungus I would have been able to see more</p>	
Summary Statement My project is about the distance germs spread from one sneeze.	
Help Received Mother helped set-up and Grandpa helped review results	