



**CALIFORNIA STATE SCIENCE FAIR  
2008 PROJECT SUMMARY**

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**Project Title**  
**A Comparison of Bacterial Numbers and Types in Homo sapiens and Cinis familiaris**

**Abstract**

**Objectives/Goals**  
My objective is to see if dogs have cleaner mouths than humans. My goal will be trying to prove that dogs have cleaner mouths than humans.

**Methods/Materials**  
# Pent Glass Rod                      # Blood Agar Base  
# Alcohol Burner                      # Blood Agar Plates # 48  
# Cotton swabs # 12                  # 50mL of Blood  
# Incubator                              # Test tubes # 4  
# Distilled Water - 480 mL # Alcohol Methyl - 99.8%  
# 6 Human Subjects                  # 6 Dogs  
# Finger Bowl                          # Petri Dish Base  
# Alcohol Methyl 99.8                # Clorox Bleach  
# Blood Agar Base                    # Pipette  
# Nutrient Agar plates # 48

**Results**  
The high in my experiment to see who had the most bacteria on nutrient agar was human 2 with an average of 73.25 and the low in my experiment was human 1 at 4.5. The high in my experiment to see who had the most bacteria on the Blood agar plates was dog 6 at 52.0 and the low was dog 2 and dog 3 at 16.75. The high in my experiment to see who had the most pathogens was human 2 at 25.66 and the low was dog 3 at 8.37. The high in all my averages on nutrient agar plates was dogs at 35.25 and the low was humans at 28.79. The high in all my averages on Blood agar plates was humans at 28.83 and the low in was dogs 27.08. The high in all my averages for Alpha and Beta Hemolysis was humans at 17.82 and the low was 14.32.

**Conclusions/Discussion**  
After concluding my investigation to see if dogs have cleaner mouths than humans I found that my hypothesis, that dogs would have cleaner mouth than humans was incorrect. My results were inconclusive. Reason being statistics have shown no real difference between the two groups, humans and dogs were equivalent.

**Summary Statement**  
I am testing to see if dog have cleaner mouths than humans.

**Help Received**  
Mother helped glue; used lab equipment at Sanger High School lab room 110 under the supervision of Mr. Nathan Whittington.