



**CALIFORNIA STATE SCIENCE FAIR
2004 PROJECT SUMMARY**

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| Name(s) Lauren E. Ruh | Project Number J1327 |
| Project Title Effects of Different External Factors in Changing the Effectiveness of Various Antibiotics | |
| <p style="text-align: center;">Abstract</p> <p>Objectives/Goals I wanted to see medications reaction to a household substance which was mixed with bacteria.</p> <p>Methods/Materials I used 5 different medications, Duricef, Zithromax, Augmentin, Omnicef and Cifzil. Then mixed it with 4 different things you would find in your kitchen, salt, coffee, soap, wine. Next I put the household substance medication mixture on a disk (hole punched coffee filter) then the disk was placed into a petri dish infested with bacillus substillus (bacteria) then I recorded for two days.</p> <p>Results Salt .9 Wine 1.108 Soap .97 Control 1.016 Coffee .95 Those are the average of each household objects mixed with 5 different medications and bacteria.</p> <p>Conclusions/Discussion After completing my project I have found that wine is best at preventing bacteria growing while mixed with a medication. This does not increase the effectiveness of the drug though! The least effective household substance was salt.</p> | |
| Summary Statement I wanted to see what would happen to medication if it was mixed with household substances, then mixed with bacteria | |
| Help Received Mr. Whittington (teacher) provided materials, Mother helped type, Mr. Case (teacher) provided lab space, Dr. Cohen provided auto claving machine. | |