



**CALIFORNIA STATE SCIENCE FAIR  
2002 PROJECT SUMMARY**

<b>Name(s)</b> <b>Kavonna M. Jackson</b>	<b>Project Number</b> <b>J1316</b>
<b>Project Title</b> <b>Would You Like Sugar with That?</b>	
<b>Abstract</b> <b>Objectives/Goals</b> My objective was to learn if a high concentration of dextrose solution is detrimental to the growth of the bacteria <i>Serratia Marcescens</i> . <b>Methods/Materials</b> Twenty sterile agar filled petri dishes were swabbed with the <i>Serratia Marcescens</i> bacteria. Then sterile disks were saturated in zero to twenty grams of the dextrose solution. The disks were then placed on the bacteria. Next, the bacteria was incubated at thirty-seven degrees Celsius for two days. The results were studied and noted. A dillution of 1/10mm followed this, which was plated in sterile agar filled petri dishes. Lastly, the dishes were incubated for two days at thirty-seven degrees Celsius. The results were studied and noted. <b>Results</b> The control and the bacteria with five to fifteen grams dextrose solution were uncountable. The bacteria with twenty grams dextrose solution grew about 300 colonies, which was a lot less than the others. <b>Conclusions/Discussion</b> The results supported my hypothesis in saying that the highest concentration of dextrose is detrimental to the growth of the <i>Serratia Marcescens</i> .	
<b>Summary Statement</b> My project researches and test to see how different concentrations of dextrose solution effect the growth of the bacteria <i>Serratia Marcescens</i> .	
<b>Help Received</b> Mr. McCarthy helped me to structure my project and supervised my experiment. He also let me use his incubator to incubate the bacteria.	