



**CALIFORNIA STATE SCIENCE FAIR  
2014 PROJECT SUMMARY**

<b>Name(s)</b> <b>Joeyta Banerjee</b>	<b>Project Number</b>  34126
<b>Project Title</b> <b>Investigation of Glucose and Sucrose Using the Enzyme Invertase</b>	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> In my project, I was testing the glucose and sucrose concentrations of commonly eaten foods.</p> <p><b>Methods/Materials</b> In the first part of my project, I tested the activity of invertase by finding the linear time point. I used a sucrose solution and glucose test strips in order to find the linear time point, which I found to be thirty minutes. Using this information and Glucose Test Strips, I began testing the glucose and sucrose concentration of the food samples. First I tested the glucose, and then using the invertase I tested the sucrose. I repeated each test three times. I used Diastix Glucose test strips, Invertase, and several food samples.</p> <p><b>Results</b> In my project, I learned that honey and lactose-free milk have the highest glucose concentration and that sweet potato has the highest sucrose concentration. I also learned that chicken, milk, almond milk, and almond butter have the least glucose concentration and that chicken milk, honey, and lactose free milk have the least sucrose concentration.</p> <p><b>Conclusions/Discussion</b> I found that my hypothesis was partially correct because chicken did have the least glucose and sucrose concentrations, but ice cream did not have the highest.</p>	
<b>Summary Statement</b> In my project I tested the glucose and sucrose concentration in commonly eaten foods using the enzyme invertase.	
<b>Help Received</b> Dr. Uzma Khan was the qualified scientist for my project. My parents and sister helped me assemble the board.	