



**CALIFORNIA STATE SCIENCE FAIR  
2006 PROJECT SUMMARY**

<b>Name(s)</b> <b>Emily Donnelly</b>	<b>Project Number</b> <b>J1013</b>
<b>Project Title</b> <b>It Brings Tears to My Eyes</b>	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> My objective is to determine which variable suppresses the pain and irritation in the eyes for the longest time.</p> <p><b>Methods/Materials</b> 30 onions; 30 subjects; knives; cutting boards; bread, gum, and ice water.</p> <p><b>Results</b> Holding bread in the mouth suppressed the irritation in the eyes for the longest time. Chewing gum followed closely behind in the suppressing of the irritation. Soaking the onion in ice water helped the least in suppressing the irritation in the eyes.</p> <p><b>Conclusions/Discussion</b> For this experiment, bread proved to help the best with the irritation in the eyes. The bread did not completely eliminate the irritation. However, the bread absorbed the onion gas before it reached the eyes, making the pain and irritation less severe. My hypothesis was that chewing gum would be best. This proved to be incorrect.</p>	
<b>Summary Statement</b> I conducted an experimental comparison of commonly used tips for suppressing eye irritation while cutting onions.	
<b>Help Received</b> Mom bought supplies; Dad helped with graphs; Teacher provided space and knowledge; My friends and family who supported me	