



**CALIFORNIA STATE SCIENCE FAIR  
2014 PROJECT SUMMARY**

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<b>Project Title</b> Comparing Ascorbic Acid Content between Organic and Non-organic Malus domestica	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> The objective is to determine if there is more ascorbic Acid (vitamin C) in organic or non-organic Malus Domestica (apples).</p> <p><b>Methods/Materials</b> Five different types of apples were collected. The peel and pulp of the samples were run through a High Performance Liquid Chromatography machine (HPLC). The ascorbic acid content was determined by comparing the amounts found in the standards and samples.</p> <p><b>Results</b> There was more vitamin C found in the organic apple peel samples than the non-organic. However in the pulp samples there was not a significant change in vitamin C content.</p> <p><b>Conclusions/Discussion</b> The results we obtained showed that organic Malus Domestica have higher ascorbic acid levels compared to the non-organic.</p>	
<b>Summary Statement</b> Comparison of vitamin C content in apples.	
<b>Help Received</b> Dr. Cauchon, Dr. Malhotra and Mr. Hoag answered some questions I asked of them.	