



**CALIFORNIA STATE SCIENCE FAIR  
2014 PROJECT SUMMARY**

<b>Name(s)</b> Noah Chow; Meghan Lorenz	<b>Project Number</b> <b>S0506</b>
<b>Project Title</b> <b>Comparing Ascorbic Acid Content between Organic and Non-organic Malus domestica</b>	
<b>Abstract</b> <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). <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. <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. <b>Conclusions/Discussion</b> The results we obtained showed that organic Malus Domestica have higher ascorbic acid levels compared to the non-organic.	
<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.	