



**CALIFORNIA STATE SCIENCE FAIR  
2010 PROJECT SUMMARY**

<b>Name(s)</b> <b>Abigail A. Maliyekkal</b>	<b>Project Number</b> <b>J0411</b>
<b>Project Title</b> <b>Extracting DNA</b>	
<b>Abstract</b> <b>Objectives/Goals</b> The objective of my experiment was to find whether the dehydration process of a strawberry affected the amount of nucleic acid it contained. To do so, I had extract the nucleic acid from both the dried and the fresh strawberry and compare the amount. I chose to find both the mass and the volume of the nucleic acid. <b>Methods/Materials</b> First, using nessary material, I extracted the nucleic acid from the fresh strawberries, The using hte same tools (which were cleaned), I extracted the nucleic acid from the dry fruit. Then, using a specific formula, I found the volume of the nucleic acid for the dry and fresh strawberry. Later, using an extremely sensitive weighing scale and a centrifuge machine, I found the mass of the nucleic acid. I then compared results for both the mass and the volume of the nucleic acid. <b>Results</b> My results repeatedly stated that the dried strawberry had less nucleic acid that the fresh strawberry. <b>Conclusions/Discussion</b> The conclusion I came to, due to the results, was that the dehydration process of a strawberry does affect the amount of nucleic acid inside the cells. The fresh strawberry did have more nucleic acid, but the dried strawberry did have a small amount.	
<b>Summary Statement</b> My project was about finding the difference in the nucleic acid level of a dried strawberry compared to that of a fresh strawberry.	
<b>Help Received</b> Mom helped with experiment: Dad helped get supplies: Was loaned lab equipment from Dr.Saldivar	