



**CALIFORNIA STATE SCIENCE FAIR
2010 PROJECT SUMMARY**

Name(s) Marianna Ripa	Project Number J2026
Project Title DNA Extraction	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals My objective is to find out how to extract DNA from plants using household materials that can be accessible to any person.</p> <p>Methods/Materials Method: I broke down the plant cells by blending the plant using salt for that can be easier to extract the DNA. From there I put a layer of rubbing alcohol over the solution, that way the DNA would rise into the layer and I would have a visual.</p> <p>Materials: Alcohol (isopropyle), clear glasses, iced water, distill water, measuring cup, salt, clear detergent, spoon, plastic bag, blender, paper coffee filter, ruber band, drainer, toothpick or popsicle stick, vegetables or any kind of plant.</p> <p>Results I was successful in separating DNA from approximately 73% overall from the chosen samples. In the case of the vegetables I had a 75% overall success rate. In the case of the plants I had a 70% overall success rate. Comparing the two groups, there is a consistent outcome of approximately 73%. The variable of the experiment was the time to separate the DNA from the solution. The extraction of the DNA from the peas took 10 minutes loger due to the thickness of the solution.</p> <p>Conclusions/Discussion I was able to extract the DNA using household materials, accesible to any person.</p>	
Summary Statement How to extract DNA from plants using household materials.	
Help Received Science teacher revised report and mother helped getting materials.	