



CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s) <p style="text-align: center;">Ellen J. Shilgevorkian</p>	Project Number <div style="text-align: right; padding-right: 5px;">22665</div>
Project Title <p style="text-align: center;">Confirming the Identity of an Unknown Piece of DNA by Restriction Mapping</p>	
<p style="text-align: center;">Abstract</p> <p>The purpose of the experiment is to show the basic and at times advanced functions of DNA such as replication, translation, transcription, through the study of DNA sections, that have been catalyzed with DNA restriction enzymes (a process called DNA restriction). The purpose of this project is to bring a better understanding of the universal hereditary material along with the benefits of contemplating such a unique macromolecule and its effects on human life, culture, and knowledge. By studying small sections of the material, this project hopes to bring some sense of resolution.</p> <p>Methods/Materials</p> <ul style="list-style-type: none"> 1 micro centrifuge tube of lambda DNA 1 micro centrifuge tube of HindIII 1 micro centrifuge tube of EcoRI 1 micro centrifuge tube of KpnI 1 micro centrifuge tube of BamHI 1 micro centrifuge tube of Bovine Serum Albumin 1 bottle of TBE running buffer 1 microcentrifuge tube of Buffer E 1 microcentrifuge tube of Buffer C 1 bottle of 1% Agarose 1 bottle of H2O 6X Loading Dye Wax Paper Ethidium Bromide Electrophoresis Chamber Power Supply UV Box and Camera Micropipets Micro centrifuge tubes Rubber gloves Lab coat plastic cover sharpie markers 	
Summary Statement <p>To figure out the unknown.</p>	
Help Received <p>used lab equipment at California State University Los Angeles under the supervision of Charly.</p>	