



**CALIFORNIA STATE SCIENCE FAIR  
2003 PROJECT SUMMARY**

<b>Name(s)</b> <b>Shaine D. Millheiser</b>	<b>Project Number</b> <b>J0408</b>
<b>Project Title</b> <b>Search for the Seven Repeat Sequence</b>	
<b>Objectives/Goals</b> The objective of my project is to see if the ENTP (Extroverted, Thinking, iNtuitive, Perceiving) Brain Type shows a higher correlation with a 7 repeat sequence on the fourth dopamine receptor gene than other Brain Types.	
<b>Abstract</b>	
<b>Methods/Materials</b> Materials: FTA swab card Foam Swab Desiccant Pouch/Envelope Brain Type Test Brain Type Questionnaire 55 subjects Access to the Brain Type Institute lab  Method: 1. Give each subject a Brain Type detecting test and have them answer according to its questionnaire. 2. Add up the answers and determine brain type of each subject. 3. Label one FTA card with your name and brain type on the lines provided at the bottom of the card. 4. Take on swab. Remove the swab from its package carefully to be sure to not touch the foam tip. Swab mouth collecting as much saliva as possible by vigorously swabbing under the tongue, on top of the tongue, and inside both cheeks. Also be sure to swab between gum line. 5. Remove the swab from the mouth and transfer the sample to the FTA card by pressing the foam tip within the appropriate circle. Press firmly to transfer as much saliva as possible. 6. Once the sample has been applied to the FTA card, close the paper flap and place it into the barrier pouch. 7. Place desiccant (moisture absorber) into pouch and seal the pouch. 8. Store at room temperature. 9. Send to the Brain Type Institute lab 10. Compare results of Brain Types versus gene presence.	
<b>Results</b>	
<b>Summary Statement</b> My project is about finding a link between the ENTP Brain Type and the (DRD4 7R) gene.	
<b>Help Received</b> My father helped me to find addresses to a genetics lab and where to buy my materials: Dr. Nobel, UCLA geneticist, helped explain many of the concepts I needed to know: The UCLA genetics lab and the Brain Type Institute tested my samples for the gene.	