



**CALIFORNIA STATE SCIENCE FAIR  
2002 PROJECT SUMMARY**

<b>Name(s)</b> <b>Michaela P. Daniel</b>	<b>Project Number</b> <b>J0309</b>
<b>Project Title</b> <b>Which Hand Is More Sensitive?</b>	
<b>Abstract</b> <b>Objectives/Goals</b> My project was to determine whether the sensitivity of a hand has any relation to whether it is the dominant hand. <b>Methods/Materials</b> Informed consent was obtained from 44 randomly selected people ranging in age from 8 to 67. Each person was asked to trace his/her hand palm side up on a piece of gridded paper. The same was done for the other hand. Each person indicated whether they were left or right handed. A lamp and a racquet were positioned in a box so that the light shining through the racquet projected a grid pattern onto the subject's palm. The box prevented the subject from viewing his/her hand. Next, the subject's palm was lightly poked in three different places, using a different object (out of three)each time. The subject recorded the location and material of each touch on the gridded paper on which s/he traced his/her palm. The subject then placed the other palm in the lamp box, undergoing the same procedure as the first palm. <b>Results</b> The right handed people had more sensitivity in their right hands, the left handed people in their left, but what I found was most interesting was that the left-handed people showed more sensitivity overall, providing the most correct responses. <b>Conclusions/Discussion</b> The dominant hand is more sensitive to touch than the other hand.	
<b>Summary Statement</b> My project is about how the dominance of hands affects the sense of touch.	
<b>Help Received</b> My mom helped provide subjects, and my dad helped me put the lamp box together.	