



California Science Center
CALIFORNIA STATE SCIENCE FAIR
2001 PROJECT SUMMARY

<p>Your Name (List all student names if multiple authors.) Ian D Broeske</p>	<p>Science Fair Use Only</p>
<p>Project Title (Limit: 120 characters. Those beyond 120 will be ignored. See pg. 9) Get A Grip: Is an Individual's Dominant Hand Stronger in Grip Strength?</p>	<p>S1502</p>
<p>Preferred Category (See page 5 for descriptions.) 15 - Physiology</p>	<p>Division <u> </u> Junior (6-8) <u> X </u> Senior (9-12)</p>
<p>Abstract (Include Objective, Methods, Results, Conclusion. See samples on page 14.) Use no attachments. Only text inside these boxes will be used for category assignment or given to your judges.</p> <p>Objective: My project was to determine if an individual's dominant hand is stronger in grip strength than their non-dominant hand.</p> <p>Materials and Methods: I used a JAMAR dynamometer to test each individual's hand grip strength. I tested 50 adult individuals to determine if my hypothesis is correct. I used statistics to determine if my results were correct.</p> <p>Results: My results showed that right and left handed people tend to be stronger in grip strength in the right hand.</p> <p>Conclusion: Contrary to medical journals, I conclude that dominance and hand grip strength are not directly related.</p>	
<p>Summary Statement (In one sentence, state what your project is about.) I tested 50 individuals to determine if hand dominance and hand grip strength are directly related.</p>	
<p>Help Received in Doing Project (e.g. Mother helped type report; Neighbor helped wire board; Used lab equipment at university X under the supervision of Dr. Y; Participant in NSF Young Scholars Program) See Display Regulation #8 on page 4. Dr. William Bowen gave me medical advice on the subject. Mr. Tim Hanna helped with statistical analysis.</p>	