



**CALIFORNIA STATE SCIENCE FAIR
2011 PROJECT SUMMARY**

Name(s) Imli K. Khair	Project Number 31954
Project Title Hippodamia convergens Undergo the Lazic Treatment	
Abstract Objectives/Goals The purpose of this experiment is to determine whether a ladybugs vision will become impaired from a certain amount of Lasik exposure after 10 days. From my research, lasers (which employ a vast beam of light) will cause the ladybugs contained in groups B and C to eventually become blind. Methods/Materials A brief overview of what was conducted on the ladybugs is simple. First, laser the ladybugs contained in Group B for 2 minutes and Group C for 4 minutes, keeping a distance of about 4 inches from their eyes. Continue this step each day, for a total of 10 days. After each exposure, place the ladybugs in a setting (transparent container) in which rocks are scattered wholly. Mark on the container a start and finish line. Record the reaction of the ladybugs to the rocks. In addition to that, record the time and length the lady bug takes to transition from point A to point B. This test will demonstrate blindness. Results After this test was applied, Group A (control) climbed on top of the rocks. Groups B and C collided with the rocks numerous times. Too add, Group A (control) was seen to be much more active. Groups B and C responded with characteristics of exhaustion. Conclusions/Discussion Furthermore, not only was vision affected but also the nervous system of the ladybugs. Overall, Group A responded much more vivacious then Groups B and C.	
Summary Statement This project was conducted to test whether a ladybug#s vision would become impaired from a laser#s light exposure and to then correlate it to the effects of light exposure for humans.	
Help Received My teacher Mrs. Delacruz contributed advice; My classmate Juan Llamas supplied the lasers.	