



**CALIFORNIA STATE SCIENCE FAIR
2008 PROJECT SUMMARY**

Name(s) Alex Q. Santillan	Project Number S1517
Project Title Effect of Caffeine on Fertilization Rate of Strongylocentrotus purpuratus	
Abstract Objectives/Goals To test if caffeine effects the fertilization of the purple sea urchin Methods/Materials The gametes from the purple sea urchin were collected and were added to the concentrations of caffeine for a period of 5 minutes, and then slides were prepared and observed to determine the success rate of the fertilization process for each caffeine concentration. Results The experimental results indicated a notable decrease in the success rate of each increasing concentraion of caffeine	
Summary Statement The focus was to see if caffeine effected the fertilizations success rate of the purple sea urchin	
Help Received used lab equipment at Mount Miguel High School	