



**CALIFORNIA STATE SCIENCE FAIR
2015 PROJECT SUMMARY**

Name(s) Jessica M. Cronin	Project Number S1207
Project Title Variations in Heart Rate Pre- and Post-Exercise: Human vs. Equine	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals My goal was to find out whether a horse or it's rider's heart rate would be most affected after jumping a course of jumps.</p> <p>Methods/Materials Stethoscope, Stopwatch, Course of Jumps, Horse/Rider Combos</p> <p>Results The horse's heart rate was most affected according to percentages.</p> <p>Conclusions/Discussion If you look at the amount of beats per minutes the heart rates changed, it looks like the rider's heart rates were most affected. However, since human hearts beat slower than horse hearts, you must find the percentage of the change to see that the horse's heart rates actually changed more.</p>	
Summary Statement My goal was to find out whether a horse or it's rider's heart rate would be most affected after jumping a course of jumps.	
Help Received Since I had to get heart rates before they could lower, I had the riders take their own pulse while I took the heart rate of their horse.	