

CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

Name(s)	Project Number
Joshua A. Lewis	
	J2105
Project Title	
Daphnia: Under the Influence	
Dapinia. Onder the influence	
Objectives/Goals Abstract	
To find whether certain substances affect the heart rate of Cladocera Daphnia.	
Methods/Materials	
Water fleas, caffeine, alcohol, microscope.	
I added small amounts of alcohol to the container of Daphnia and then extracted them from the container	
after a minute with a pipet. I then put them under the microscope and counted their heartbeats for 15 minutes, then removed the Daphnia. I repeated this process multiple times to get a more accurate sample	
size. I repeated the process again multiple times, but with caffeine instead of all	
Results	.0101.
When the Daphnia were introduced to caffeine, the more I gave them, the more	their heart rate went
down. The more alcohol I gave the Daphnia, the more their heart rate went dow	
Summary Statement	
Testing whether caffeine and alcohol affect Cladocera Daphnia's heart rate.	
Help Received	
My mother helped time the experiments, and my dad bought the supplies. My n	nath tutor helped me keen
track of data.	nam tutor nerped me keep