



**CALIFORNIA STATE SCIENCE FAIR
2006 PROJECT SUMMARY**

Name(s) Jessica L. Koehler	Project Number S1418
Project Title Doped Up Daphnia	
Abstract Objectives/Goals What is the effect of drugs on the heartrate of daphnia? Methods/Materials Daphnia Magna standard microscope droppers/ pipettes 5 petri dishes beakers (to make solutions) alcohol instant coffee cigarettes cough syrup warm water room temp. water stirring rod Results COUGH SYRUP I observed that the cough syrup drastically decreased the heart rate of the daphnia. It was not hard to see this under the microscope at all. ALCOHOL Although not by much, I observed that some daphnia#s increased while others decreased. The alcohol did not seem to change their heart rate as much as I would have like it too. CIGARETTES My results for nicotine were somewhat surprising. I was not able too detect any heart beat except for one of my daphnia that beat once and then I was no longer able to detect any other beating. COFFEE I observed that each daphnia#s heart rate slightly increased. Although it was a slight increase, I was still able to easily observe the increase under the microscope.	
Summary Statement I observed Daphnia magna under the microscope, drugged and undrugged, and timed their heartrate.	
Help Received Used lab equipment at school under the supervision of Erin Vaccaro and/or Clint Smith; friends helped time	