



**CALIFORNIA STATE SCIENCE FAIR  
2014 PROJECT SUMMARY**

<b>Name(s)</b> Amanda Richno; Isabella Spangle	<b>Project Number</b> <b>S1212</b>
<b>Project Title</b> Male Dominance? Battle of the Sexes	
<b>Abstract</b> <b>Objectives/Goals</b> We are trying to prove that gender has influence over the intelligence level in mice. We believe that male mice will be smarter based on the fact that they may have evolved to be more intelligent on the account that they must be more competitive for resources than female mice. <b>Methods/Materials</b> In order to ascertain data on gender intelligence, we devised a maze to test their ability to learn and retain information. We came to our conclusion based on the average trial time for each gender. We used four mice, two males and two females. We placed peanut butter at the end of the maze and then inserted the mouse at the beginning of the maze. We timed how long it took the mouse to find the peanut butter. We repeated the process for each mouse. <b>Results</b> We found that the male mice were in fact quicker at the maze than the females. <b>Conclusions/Discussion</b> We observed that the male mice seemed more competitive and eager to complete the maze, which further supports our theory that the males are more intelligent in order to reproduce successfully. In the time leading up to the experiment, we fed the mice the same amounts of food, ruling out the possibility that the male mice were hungrier than the female mice. This, however, does not account for possible metabolism differences between the male and female mice.	
<b>Summary Statement</b> This project investigates the differences in intelligence between male and female mice.	
<b>Help Received</b> Mother bought the mice.	