

## CALIFORNIA STATE SCIENCE FAIR 2007 PROJECT SUMMARY

Name(s)	Project Number
Oren R. Lee	J1115
	JIIIJ
Project Title	
Are Rats Smart Eaters?	
Abstract	
Objectives/Goals	
Rats are known to display a behavior known as socially transmitted for display a similar food preference to demonstrator rats. The hypothesis socially transmitted food preference will be demonstrated in the rat#s lever Skinner box. <b>Methods/Materials</b> A dual lever Skinner box was built providing identical levers offering different shoots. Ten rats were used to determine their socially transm over alfalfa by placing each rat in a cage with the two food options for pellets eaten during that time. Each test was repeated seven times for to use the Skinner box, it was tested in the dual lever box for ten, 10-n of pieces eaten from each of the two shoots. <b>Results</b>	is of this experiment is that a rat#s ability to obtain that food in a dual two different food sources from two nitted food preference of Cheerios or 10 minutes and counting the food each rat. After each rat was trained minute sessions counting the number
The rats preferred Cheerios over alfalfa 98.36% of the time when allo Skinner box, the rats pressed the Cheerios lever an average of 23.81 ti 1.92 times for alfalfa. An ability to press the lever for Cheerios over a <b>Conclusions/Discussion</b> The rats clearly demonstrated a food preference and were able to trans performance in a dual lever Skinner box in order to press the lever tha small difference of 98.36% food preference in a cage verses 92.54% a the Skinner box demonstrates the rat#s quick learning and strong desin study could be strengthened by adding more rats, more food variables prefer one lever over the other if the food source was alternated from t	imes per testing session, compared to alfalfa was seen 92.54% of the time. slate this preference into at produced their favorite food. The ability to press the favorite lever in re to obtain the food they like. This s, and seeing if the rats would still
Summary Statement	