

## CALIFORNIA STATE SCIENCE FAIR 2011 PROJECT SUMMARY

Name(s) Nikita Akkala	Project Number <b>S0402</b>
Project Title The Effect of Aromatherapy on Cog	nitive Ability
Abstra	et
<ul> <li>Aromatherapy has been used around the world for varimemory improvement, relaxation, and even mood enlaromatherapy on cognitive ability and brain activity. Imost improvement in performance level.</li> <li>Methods/Materials <ul> <li>I used mice in order to conduct this experiment, becariand genome structures. Plus, humans cause numerous trials were conducted. Each mouse ran through 4 maz Peppermint) and 1 control (no aroma). For every aror in order to avoid the mice remembrance of the maze of Results</li> <li>Then, I compared the average amount of time it took Peppermint (91.26 seconds), Rosemary (88.46 second control (123.71 seconds).</li> </ul> </li> <li>Conclusions/Discussion <ul> <li>In the end, I determined that aromatherapy has a posi exposure to lavender aroma shows the most improver animals. Therefore, my data and results supported my</li> </ul> </li> </ul>	rious applications stress relief, increase in alertness hancements. In my experiment, I tested the effect of Afterward, I determined which aroma showed the use mice and humans have closely related homology excessive variables. In total, I used 20 mice. 80 es in 3 different aromas (Lavender, Rosemary, and na, each mouse ran through 4 different maze designs. lesign. for the mouse to run through the maze with ls), and Lavender aroma (75.55 seconds), with the tive effect on cognitive ability and brain activity, and nent in the performance level of humans and hypothesis, and overall I met my objectives.
<b>Summary Statement</b> This purpose of this project is to determine if aromath determine which aroma shows the highest improvement	herapy has an effect on cognitive ability and to ent in performance level.
Help Received	

Mother helped in cutting and pasting, Father helped in handling mice. Shailaja Kasibhatla was the qualified scientist/biologist that approved the project.