



**CALIFORNIA STATE SCIENCE FAIR  
2004 PROJECT SUMMARY**

<b>Name(s)</b> <b>Rhea-Lanee L. Lansang</b>	<b>Project Number</b> <b>J1317</b>
<b>Project Title</b> <b>Fungus Among Us</b>	
<b>Objectives/Goals</b> ABSTRACT	<b>Abstract</b> <p>My project, Fungus Among Us, deals with a unique kind of fungus, <i>Arthrotrrys conoides</i>. In this project I also used <i>Rhabditis</i> nematodes. I wanted to see what the preferential feeding temperature for <i>Arthrotrrys conoides</i> to eat the <i>Rhabditis</i> nematodes.</p> <p>In my project, I had a Petri dish of <i>A.conoides</i> and a tube culture of <i>Rhabditis</i>. I made 20 agar dishes using cornmeal agar. With a scalpel I inverted a cubic centimeter piece of the fungus (the fungus was still with the agar) onto the new agar dish. I then let the fungus grow for about three days in the new dish. Then I inoculated the fungus with <i>Rhabditis</i> nematodes. I divided my dishes, four per each temperature. After finishing my dishes, I put them in five different places with five different temperatures. I used two incubators, on refrigerator and a classroom. I used five different temperatures, 100C, 150C, 170C, 200C, and 250C. Soon after pitting the dishes away, I observed each dish under a microscope. I divided them into four quadrants. I also looked at each dish from four different angles. Then I recorded how many nematodes I found alive and how many cuticles I found.</p> <p>My hypothesis was that 250C was the temperature in which more nematodes would be consumes. I thought that because if you convert all the temperature that I used, they are 500F and above. 250C to me was closest to an outside temperature. I thought that since most fungus such as mushrooms, grow outside, then maybe the fungus would be more active and grow more thus leading to more nematodes being consumed.</p> <p>After about 80 tests, my hypothesis was correct. 250C was the temperature in which the most nematodes were consumed. After 250C, came 170C, 150C then 200C. I was surprised that 200C had the least amount of nematodes because it was the second highest temperature.</p>
<b>Summary Statement</b> I wanted to see what the preferential feeding temperature was for <i>Arthrotrrys conoides</i> .	
<b>Help Received</b> Mr. Brent Susman	