



**CALIFORNIA STATE SCIENCE FAIR  
2005 PROJECT SUMMARY**

<b>Name(s)</b> LeeAnn A. Patrick	<b>Project Number</b> <b>J1631</b>
<b>Project Title</b> <b>Good Vibrations: How Does Music Affect Plant Growth?</b>	
<b>Abstract</b> <b>Objectives/Goals</b> My objective was to find out if music affected plant growth and if so, how? <b>Methods/Materials</b> First I ordered 50 fast plant seeds for the experiment. Then I built four boxes out of plywood and I fitted sound proof foam insulation. I planted the fast plant seeds in black planters and put together the reservoirs for watering. I put a planter and reservoir in each box with a CD player out front and headphones inside with the plants. Everyday for twenty days I checked on the plants and recorded their growth. <b>Results</b> Silence grew the best and healthiest followed by spoken word (Harry Potter). Classical music (Vivaldi concertos) ended up just under spoken word. Bringing up the rear was a very small and unhealthy plant that was 'listening' to heavy metal and (harsh) world music (Mudvayne and Rammstein). <b>Conclusions/Discussion</b> From my twenty days of information gathering I have drawn the conclusion that all music/spoken word affects plant growth negatively. Some plants were affected more negatively than others. So I can just repeat an old saying, 'Silence is golden.'	
<b>Summary Statement</b> Discovering how music and spoken word affect plant growth.	
<b>Help Received</b> Mother helped take photos and set up board; Father helped build boxes and set up project; Got advice from my science teacher, Mr. Kinsella.	