

## CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s) **Project Number Angela Wirsching** 22878 **Project Title UV Light and Bacterial Decay Abstract Objectives/Goals** To determine whether UV Light has any effect on the bacterial decayof spinac Methods/Materials Materials: Short/long wave ultraviolet lights, spinach, protective clothing, san gla s, electricity, water, dirt/bacteria, Ziploc baggies, cooler. Procedure: 1. Pick out ninety healthy spinach leaves and dip in a solution of dirt and water 2. Divide the ninety leaves into three groups of thirty. Place one the groups of thirty under the UV light and expose for one minute. Keep in a plastic baggie and coder 3. Take the second group of thirty and place under the UV light for five inutes. Keep in a baggie and cooler. 4. Take the third group and place in the same cooler and a bag 5. Each day expose the two groups to the UV light, orde the lea egin to decay remove them and throw away, each day check the leaves in the cooler also 6. Record data by how many leaves have decaye **Results** The leaves exposed to UV light for five minutes and the leaves not exposed at all decayed faster than the leaves for one minute exposure. Yet the leaves with no exposure decayed faster than the leaves exposed for five minutes **Conclusions/Discussion** Thus, I concluded that UV light does sterilize. Yet too much light, say five minutes destroys the leaves. While one minute seems to be the right amount for rerilization. Summary Statement light slowing bacterial decay. My project is about Help Received Teacher helped conceive idea; Mother helped design board