

CALIFORNIA STATE SCIENCE FAIR 2014 PROJECT SUMMARY

Name(s) **Project Number** Gianna A. Guzman 34757 **Project Title Growing a Soil Menagerie Abstract Objectives/Goals** My objective was to find out what different types of organisms grow in different types of organisms. onments and whether they prefer light or darkness. Methods/Materials Materials used were: mud, sand, and water collected from the beast and a reek, dim soda bottles, rubber bands, saran wrap, desk lamp, LED flashlight. Procedure: I collected mud from the Laguna Canyon Creek and sand from Laguna Beach, as well as water from both locations. I put the samples into empty water bottles to be used as Winogradsky columns. I placed two of the bottles (one with sand and one with much directly in the sunlight during the day and under a desk lamp during the night. Two other bottles have remained in the dark. These bottles have been sitting for about 14 weeks. **Results** The soil samples began to grow different types of organisms throughout the 14 week period. Conclusions/Discussion My conclusion is that the majority of the organisms that grew in the creek mud did not thrive in the beach sand and that they prefer the sunlight. **Summary Statement** different microbe colonies found in different environments and how do they react to light and darkno **Help Received** My mother helped me by driving me to the different sites to collect samples, type the report, and collecting and prepping supplies.