CALIFORNIA STATE SCIENCE FAIR
2016 PROJECT SUMMARY

Name(s)
Homin Key; Jaskirat Sandhu; Shotaro Yamaguchi

Project Number
S2104

Project Title
Testing Various Factors Affecting Varroa Mites

Abstract

Objectives/Goals
The objective for this project is to see the affects of different test subjects, against the Varroa mites.

Methods/Materials
Powdered sugar, Oyster mushrooms, Shimeji Mushrooms, and provisional equipments that we used to get near the bee colonies and undertake our testing with safety.

Results
The test results of the factor's affect towards mite was recorded for three weeks and statistically showed that the oyster mushroom is the most effective in killing or fending varroa mites from honey bee colonies.

Conclusions/Discussion
We concluded that the mycelium of the Oyster mushroom helped with the eradication of the Varroa mites, because of the drastic difference of statistics from the mycelium producing Oyster Mushroom and the Shimeji Mushroom.

Summary Statement
In the course of three weeks, we tested various factors that might affect the elimination of the varroa mites and found that the most effective mite repellent was the oyster mushroom's mycelium and shown to reduce the number of varroa mites

Help Received
Though we designed our experiment our self, we received help from several beekeepers in California and received information to establish our experiment with a proper scientific method.