



**CALIFORNIA SCIENCE & ENGINEERING FAIR
2018 PROJECT SUMMARY**

Name(s) Homin Key	Project Number 38226
Project Title Building an Effective System to Improve the Placement and Growth of Mycelium in Its Effect towards Bees and Varroa Mites	
Abstract Objectives/Goals The objective of this project is to find the best way to place Mycelium in a bee farm environment and to see its effect on honey bees and the Varroa Mites. I implemented a Mycelium Box that was placed outside of the colony while the mycelium frame was placed inside the colony. Methods/Materials I used Mycelium that was obtained by a commercial product (Back to the Roots : Mushroom Farm Kit). I was also given 18 bee colonies by a local bee keeper. Results The Mycelium box and mycelium frame were compared. The Mycelium box showed greater number of deaths in Varroa Mites and showed a more active hive. Conclusions/Discussion The performance of the Mycelium box showed that Mycelium should be placed in an open environment and that the Mycelium is also effecting the activeness of the bees.	
Summary Statement I compared Mycelium's effect on the bees and Varroa mites in a close and open environment.	
Help Received I designed the Box and Frame but received supervision when testing with the Bees by Bee Keepers.	