

CCD & the Honey Bee

Colony Collapse Disorder was first recorded in 2006 and reached such alarming presence that there was a presidential memorandum concerning CCD issued in 2014. One of the indicators of CCD is a rise in various viral diseases of bees – viruses spread by mites.

Many solutions have been tried but have not yielded long-term favorable results. Both insects and viruses adapt and become resistant to synthetic interventions like pesticides and antivirals. This adaptation has caused many beekeepers to employ heavier and more frequent applications of these compounds in an attempt to stay ahead of the problem. This attempt has not had the desired effect.

An increasing number of research studies validate the negative impact upon honey bee immune systems that result from long term, low level exposure to combinations of toxic pesticides, herbicides and fungicides.



The Potential of Mushroom Extracts to Protect Honey Bee Immune Systems

Bees have been observed foraging metabolites of mushroom mycelium.

Repeated research on mushroom mycelium extracts has demonstrated supportive impact upon human immune systems. New research at WSU department of Entomology indicates that these mycelial extracts may have profound effects on viral presence in honey bees and may also have a positive impact upon honey bee life span.

Please attend this presentation by Tom Dadant, a 5th-generation member of the Dadant & Sons family and National Science Educator for Fungi Perfecti / Host Defense products. We will also discuss our ongoing research with WSU into fungal solutions for *Varroa* mite control.

This event is sponsored by Fungi Perfecti, LLC



“I have never seen such strong antiviral activity against bee viruses as I have seen with Stamets’ extracts.”

—Jay Evans, Ph.D.
Agricultural Research Service
USDA

“As an entomologist with 39 years of experience studying bees, I am unaware of any reports of materials that extend the life of worker bees more than this.”

—Walter Sheppard, Ph.D.
Chair Dept of Entomology,
WSU

WASHINGTON STATE
UNIVERSITY



Dr. Steve Sheppard

DATE : Thursday March 1, 2018 Humboldt County Beekeepers Association

TIME : 6:00 PM

PLACE : Ag Center UCCE Conference Room 5630 So. Broadway, Eureka, CA 95503