

## Supplementary Materials

**Supplementary Figure 1.** An infographic was distributed to beekeepers to inform them of the research being undertaken and to request their help in sourcing samples.

# BEES ARE IMPORTANT TO NEW ZEALAND

American FoulBrood (AFB) is caused by a bacterium that infects Honeybees.

Bacteriophages are viruses that can kill bacteria.

Bacteriophages can be found **ANYWHERE**

Bacteriophages are the most numerous entity on the planet and there are bacteriophages in our soil that can kill the AFB bacterium.

Bacteriophages have two life cycles, lytic and lysogenic. The lytic bacteriophages are fast and effective killers and in the USA these have been shown to be able to protect Beehives from becoming sick with American FoulBrood disease.

**Send us soil to help us find bacteriophages to kill AFB!**

At the University of Canterbury we are working to discover bacteriophages that will kill the American FoulBrood causing bacteria. These will be completely sequenced and tested for safety. This work provides the groundwork for an innovative approach to naturally protecting NZ beehives.

Visit our website: [hendricksonlab.co.nz](http://hendricksonlab.co.nz)



**Supplementary Figure 3.** Cocktail two and cocktail tested for their effectiveness against each of four bacterial strains; PFR-PI-2017, PFR-PI-2006, W19-08100 and PI-P1627 with the substitution of phage Callan for phage Dash.

