Pathogen dynamics in NZ bees: viruses, *Nosemas* and *Crithidia* (& American Foulbrood)





















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Independent scientists have identified a new parasite in bees on the Coromandel peninsula, one of several regions around New Zealand that have reported the loss of thousands of colonies of honey bees since last spring and a substantial drop in honey harvests since.

Lotmaria passim, a parasite that attacks the gut of honey bees, was only discovered by a team of American researchers about six months ago.

Its confirmed presence in Coromandel hives has rung alarm bells for beekeepers who fear another major biosecurity challenge for their industry, hard on the heels of the varroa mite which arrived in the North Island in 2000.

- Nosema ceranae 1st observed in Coromandel in 2010
- Outbreak of Lotamaria and Nosemas in Coromandel caused death of "thousands" of hives
- No antibiotic use allowed in NZ hives









