

Symbiotic Control

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Management of honeybee diseases and parasites in Tunisia by exploiting environment-friendly symbiotic control strategies

Tunisian apiculture, especially that in the south of the country, is an important economic source and in the

American foulbrood disease (AFB) affects larval and pupal stages of honeybees (*Apis mellifera* L.) and is caused by the bacterium *Fragmilia* (AFB) *Paenibacillus larvae* subsp. *paucellus*.

As all the animals also insects host a quite diverse microbial communities associated to different organs and tissues.

In the last twenty years, research in the field of insect microbiology has revealed that symbiotic relationships exist between insects and microorganisms.

This can be the case for the AFB. Symbiotic microorganisms have been proposed for control of AFB.