

Proceedings 17th U.S. Department of Agriculture Interagency Research Forum on Gypsy Moth and Other Invasive Species, 2006



Japanese oak wilt (JOW) has been known since the 1930s, but in the last 15 years epidemics have intensified and spread to the islands western coastal areas. The symbiotic ambrosia fungus *Raffaelea quercivora* is the causal agent of oak dieback, and is vectored by *Platypus quercivorus* (Murayama). This is the first example of an ambrosia beetle fungus that kills vigorous trees. Mortality of *Quercus crispula* Blume was approximately 40 percent but much lower for associated species of Fagaceae, even though each species had a similar number of beetle attacks. It is likely that other oaks resistant to the fungus evolved under a stable relationship between the tree, fungus and beetle during a long evolutionary process. *Quercus crispula* was probably not part of this coevolution. This hypothesis was supported by the fact that *P. quercivorus* showed the least preference for *Q. crispula*, yet exhibited highest reproductive success in this species. On contrary, on the other oaks the index was almost one that guarantees a stable population dynamics for *P. quercivorus*.

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