

Papers that address how fungal damage attracts bark beetles

Compiled by d. williams, 10/2018

The sudden emergence of pathogenicity in insect-fungus symbioses threatens naïve forest ecosystems. Hulcr, J, and Dunn, R. Proc. R. Soc. B 2011 278:2866-2873.

Description: "In recent decades, many symbiotic insects and fungi have been introduced ... and these fungus-insect couples are much more destructive, attacking living, not just dead and dying trees"

<https://www.ncbi.nlm.nih.gov/pubmed/21752822>

Bark Beetle, Fungus, and Host Interactions Involved in the Death of Pines in California, David L. Wood, Western Forest Insect Work Conference, 1993

Description: "He describes the role of fungus and bark beetles involved in the Death of Pines in California"

<http://wfiwc.org/awards/speeches/wood>

Nutritional and pathogenic fungi associated with the pine engraver beetle. Villari, C. Battisti, A, Chakraborty, S, Michelozzi, M., et al. Tree Physiology. 2012.

32(7):867-879.

Description: "some fungal species serve as bark beetle larvae food, while others may participate in depleting the host plant's defenses"

<https://www.ncbi.nlm.nih.gov/pubmed/22718525>

Root pathogens as agents predisposing ponderosa pine and white fir to bark beetles. Cobb, FW, Parmeter, JR, Wood, DL, and Stark, RW. Proc. 4th Int. Conf. on Fomes annosus, Athens, GA. Int. Union For. Res. Org. Sect. 24: For.Pro. pp8-15

Description: "blackstain root fungi were also strongly associated with infestation by bark beetles"

<http://agris.fao.org/agris-search/search.do?recordID=US201303050289>

Bark beetles and associated species with high heavy metal tolerance. Heliövaara, K, Vaisanen R, Journal of Applied Entomology 1991. 11(1-5).

Description: "bark beetles and fungi are tolerant to high levels of aluminum"

<https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1439-0418.1991.tb00340.x>

Volatile Organic Compounds Emitted by Fungal Associates of Conifer Bark Beetles and their Potential in Bark Beetle Control, Kandasamy D, Gershenzon J, Hammerbacher A; Journal of Chemical Ecology, 2016

Description: "This paper discusses the aromatic compounds that might be attracting bark beetles."

<https://www.ncbi.nlm.nih.gov/pubmed/27687998>