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1st Edition. Print Book & E-Book. ISBN  
9780127518008, 9780080984537

## **Insect-Fungus Interactions - 1st Edition**

Historically, fungal infections have primarily been studied as interactions between the fungus and the host insect,



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without consideration of interactions with the gut microbiota. To address this gap in knowledge, we have investigated the role of the gut microbiota in the interactions of the pathogenic fungus *B. bassiana* with its mosquito hosts.

**Insect pathogenic fungus interacts with the gut microbiota ...**

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Interactions between fungi and insects are universal in nature. While fungal-insect symbiosis, which can benefit both fungus and insects greatly, there are approximately 1000 fungi from different phyla that are known to infect and kill insects. Fungal pathogens can modify insect behavior to their benefit.

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## **JoF | Special Issue : Fungal-Insect Interactions**

The evolution of a mutualism requires reciprocal interactions whereby one species provides a service that the other species cannot perform or performs less efficiently. Services exchanged in insect-fungus mutualisms include nutrition, protection, and dispersal. In

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ectosymbioses, which are the focus of this review, fungi can be consumed by insects or can degrade plant polymers or defensive ...

## **Ecology and Evolution of Insect-Fungus Mutualisms | Annual**

...

Sociality and mutualisms in Insects. Our

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research group is working towards a better understanding of the evolutionary and ecological drivers that shape intra- and interspecific interactions in insects. More specifically, we study cooperation and sociality in insects as well as symbioses between insects and microbial organisms.

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## **Cooperation in Insects | Insect Fungus Lab**

Alterations of host behavior during fungus-insect interactions are diverse, intricate, and of great scientific interest. Passive or active behavioral changes in insects are reminiscent of evolutionary adaptations that either promote cross-kingdom control by fungi or altruistic

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behavior by the hosts.

**Fungi That Infect Insects: Altering  
Host Behavior and Beyond**

Molecular Plant-Microbe Interactions ®  
(MPMI) publishes fundamental and  
advanced applied research on the  
genetics, genomics, molecular biology,  
biochemistry, and biophysics of

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pathological, symbiotic, and associative interactions of microbes, insects, nematodes, or parasitic plants with plants.

## **Molecular Plant-Microbe Interactions®: Vol 14, No 10**

Termite Fungiculture. About 330 of the >2,600 known termite species are



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obligately dependent on the cultivation of a specialized fungus, *Termitomyces*, for food (10, 11). *Termitomyces* is grown on termite feces in subterranean combs that the termites construct within the heart of nest mounds (). Combs are supplied with feces of myriads of workers that forage on wood, grass, or leaves (Fig. (Fig.1 ...

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**Fungus-farming insects: Multiple  
origins and diverse ...**

of volumes on insect-microbial interactions. In this volume, the types of associations among insects and fungi are divided into two groups: interactions in which fungi act against insects and those in which fungi form mutualistic

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associations with insects. The division is  
artificial and em-

## **Introduction: Seven Wonders of the Insect-Fungus World**

Fungus - Fungus - Parasitism in plants  
and insects: In contrast with the  
saprotrophic fungi, parasitic fungi attack  
living organisms, penetrate their outer

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defenses, invade them, and obtain nourishment from living cytoplasm, thereby causing disease and sometimes death of the host. Most pathogenic (disease-causing) fungi are parasites of plants.

**Fungus - Parasitism in plants and insects | Britannica**

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The interactions among insects, mites, and fungi are diverse and complex but poorly understood in most cases.

Associations among insects, mites, and fungi span an almost incomprehensible array of ecological interactions and evolutionary histories. Insects and mites often share habitats and resources and thus interact within communities.

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**The role of mites in insect-fungus  
associations ...**

In some fungus-growing insects, the external digestive systems have led to the evolution of species that build elaborate colonies composed of millions of insects divided into castes with distinct tasks, behaviors, and

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morphologies, as demonstrated by leaf-cutter ants of the genus *Atta* and fungus-growing termites of the genus *Macrotermes* (32, 33).

## **Convergent Bacterial Microbiotas in the Fungal ...**

Abstract. Termites may have high exposure to both pathogenic and

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competitive fungal species. Previous studies have shown anti-fungal properties of the primary

## **Fungistatic activity of freshly killed termite ...**

on insects (unrelated to fungal interactions) (58, 111, 125, 129, 142); of the ecology of insect-fungus interactions



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(47, 106, 140); and of the role mites play in fungal communities, such as arbuscular mycorrhizal (78, 119, 127), plant pathogen (88, 89, 111), and soil microbial systems (110, 119), and in commercial mushroom production (3, 109).

## **The Role of Mites in Insect-Fungus**

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**Associations**

Scientists have been studying  
Camponotus leonardi ants in Thailand  
for several years to assess the insect-  
fungus interaction. In a 2009 paper, for  
instance, ...

**"Zombie" Ants Bite at High Noon,  
Then Die**

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This finding is the first instance of an interaction between subterranean termites and a non-decay fungus and the first direct link between bark beetles, a primary herbivore of pines, and subterranean termites, the primary invertebrate decomposers of pines in many forest ecosystems.

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**Plant-Insect-Fungus Interactions -  
Forest Entomology Society**

1. Ecological Genomics # How stick insects got their colors  
{#compilation-2-1-article-title-1} Stick insects of the genus *Timema* show variations in color that are likely due to selection for camouflage on their plant hosts. Some species are only brown or

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only green, whereas others span from reddish-pink hues to green to brown. To identify the genetics underlying this variation, Villoutreix et ...

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