



ZOMBIE ANTS

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Photographs by Joseph Warfel

In the last few decades, the word zombie has caused a dramatic adrenal rise among most of those who hear it. These staggering, stupefied, usually cannibalistic individuals—the zombies, not those with an adrenal rise—are the major characters in movies, Naughty Dog video games, TV shows, the print media, music, and literature. But zombie ants? Even zombie aunts would seem more the stuff of media entertainment ...

The ant in question is usually a carpenter ant (*Camponotus* sp.), while the fungus that enslaves the ant is *Ophiocordyceps unilateralis*, a complex with 15 species in its core clade. Botanist David Hughes once wrote that



the great Victorian naturalist Alfred Russell Wallace was the first person to document the species, but he's since taken back this assertion. One thing is certain, however—the individual who did make the initial write-up of the species didn't use the word zombie in their description.

Truth to tell, the ant isn't so much

zombified as it is puppeted by the fungus. The hyphae penetrate the ant's exoskeleton and enter its muscular structure, causing it to stop walking and begin climbing. Since it's better to spread one's spores from a height rather than low to the ground, *O. unilateralis* has turned a terrestrial insect into more or less an aerial one.

