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Ganoderma lucidum as a biological fungicide – Perspectives

Ganoderma lucidum is a cultivated macrofungus that has been extensively used for promoting health and longevity in China and other Asian countries. It is a large, dark and woody mushroom, commonly known as reishi or lingzhi. *G. lucidum* is mainly composed of polysaccharides, peptidoglycans and triterpenes; and more than 200 secondary metabolites have already been isolated from its fruiting body and mycelium. These components exhibit a wide range of bioactivities, including anti-inflammatory, antitumorigenic, antibacterial and antifungal. Some of these metabolites can also have a role in crop protection, even though this line of research has not been much explored. In this workshop, we will talk about how *G. lucidum* could be used in agriculture as a biological fungicide to control the powdery mildew, *Erysiphe difusa*, in soybean crops and the advances we are making in this area using biotic elicitors.



Biography

Jucelaine Haas has completed her PhD at the age of 34 years from the Federal University of Technology – Parana (UTFPR), Brazil. She is the Professor of Entomology at UTFPR.

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