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### **The new antagonistic fungus: *Aspergillus piperis***

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This lecture will introduce a report about my study entitled "Antagonistic studies and hyphal interactions of the new antagonist *Aspergillus piperis* against some phytopathogenic fungi *in vitro* in comparison with *Trichoderma harzianum*". This study represents, for the first time, the new antagonistic fungus; *Aspergillus piperis*. The *in vitro* studies on the activity and antagonistic mechanisms used by *A. piperis* in attacking some isolated phytopathogenic fungi (*Alternaria alternata*, *Alternaria solani*, *Botrytis cinerea*, *Sclerotium cepivorum* and *Sclerotinia sclerotiorum*) was examined and the results were highly promising. Also, the antagonistic activities of *A. piperis* was compared with the common antagonist; *Trichoderma harzianum* against the same phytopathogens. The obtained results revealed that, *A. piperis* was more effective than *T. harzianum* against all the tested phytopathogens. Finally, this study was considered a base point for futured studies on this new antagonistic fungus, *A. piperis*, in the field of biological control.

#### **Biography**

Samah Abd El-Kader El-Debaiky works as Lecturer of Microbiology (Mycology) in Botany Department, Faculty of Science, Tanta University since 24-11-2013. She has participated in 5 local conferences interested with biological science and 9 workshops in field of mycology. She also, has been serving as an editorial board member of two international journals.

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