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Insecticidal Mycotoxins against Cockroach Periplantaamericana (Dictyoptera: Blattidae)

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Abstract: The study includes isolating and identifying the fungus that accompany *P. americana* It has been noticed that there are 12 types of fungi belonging to 8 genus of Deuteromycetes, Zygomycetes and Oomycetesthrough using the agriculture media P.D.A in laboratory. The results show the secondary metabolites of fungus Aspergillus flavus surpassed in a rate of 93.33 % at killing third instar nymphs of P. americana after mixing it with food the lowest mortality rate reached 26.66% under the influence of the fungus Pethium sp.at concentration 100% after 72 hours of treatment. The results show the secondary metabolites of the fungus A. terreusthrough spray over other treated fungi with a mortality rate of adults reached 86.66 % The lowest mortality rate was 20 % for the fungus Pethium sp. at concentration 100% after 72 hours of treatment. The results also show that the fungus A.terreus superseded the other treated ones through nurturing the adults of P.americana with mortality rate of 93.33%, whereas the fungus A. plurisepta has the lowest rate, reaching 73.33% at concentration100% after 72 hours of treatment, while the concentration 25% of fungus A. pluriseptagive the lowest rate. In addition, the activities of tow detoxifying enzymes GST and EST in the third instar nymphs and adults increased after infection with secondary metabolites of fungi, the highest activity appeared at 3 days and in the concentration 100%. **Keywords**: Fungus, Periplantaamericana, adults, nymph.

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