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Occurrence and pathogenicity of some fungi isolated from Kanawa forest soil in Gombe state, Nigeria

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Abstract

T he increased use of conventional chemical pesticides over the years has resulted to an adverse effect on the environment and in the destructions of non-target organisms. Agency for Toxic Substances and Disease Registry (ATSDR) revealed that pesticides: Aldrin & Dieldrin previously used to control termites among other insect pests are probable human carcinogens (Anderson, 2007. А total of two Entomopathogenic Fungi species (Beauveria bassiana, and Metarrhizia anisopliae) were isolated both from insect cadavers and the soils within the forest environment ,with the following percentages of occurences Beauveria bassiana and *Metarrhizia anisopliae* (27.2%). The (44.4%)pathogenicity of the two fungal isolates were tested on two insects Lamprina aurata and Galleria mellonella. More pathogenicity was observed from Beauveria bassiana 78.35 (15.67%), Followed by Metarrhizia anisopliae 73.35 (14.67%) for Lamprina aurata and Metarrhizia anisopliae was more pathogenic on Galleria mellonella than Beauveria bassiana with 85.00 (17.00%) and 81.56 (16.33%) respectively. Entomopathogenic fungi are environmentally safe and are natural enemies to insects, therefore entomopathogenic fungi (biocontrol agents) are the ideal candidates for integrated pest management in the farms, forest and Green houses.



Biography:

The author is a PhD holder from Abubakar Tafawa Balewa University, Bauchi, He is a Chief lecturer and former HOD in the Department of food science and technology of federal polytechnic, Bauchi. He is member Nigeria society for microbiology (NSM), Member Nigeria institute of food science and technology. He has published several papers in reputable journals.

Speaker Publications:

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