

ISOLATION IDENTIFICATION AND BIOASSAY
 TESTING OF SOME ENTOMOPATHOGENIC FUNGI
 AS BIO-CONTROL AGENT (BC'A) IN F.GYPT.

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ABSTRACT

Survey of the natural entomopathogenic fungi associated with some economic insects which were collected from seven different locations i.e. Beharea, lavoom. (iiza. Kalubia.. Sharkiva .. Mansoura and Monofaya in Igypt yielded 57 fungal isolates belonging to seven genera. These are *Aspergillus*, *h'usarium*. *Metarhizium*. *Miuor* *PeniaUiimi* *Rhizopus* and *Iriehophylon* *Aspergillus* was detected in higher percentage of fungal frequency {38.5%}. *Metarhizium* (17.6'dd and *Mucor* (15.8%) were moderate Roth I usariurn and *RemcAllium* \uic less fungal !requeue} than others, which recorded and ^ 5^r. respectively. Kalubia governorate was the most of total fungal count spread and recorded 24.6% followed by Sharkia (!'.0%). Roth layoooin and (ii/a governorates were moderate of the total fungal spread and gave 15.8% followed by Behera i !0.5%0 and Monofaya <8.8%k whik Mansoura was less total fungal spread which recorded 7.0% On the other hand, the frequencies of isolated fungi from *Spodoplera p. ga\ e* higher percentage and recorded 68.4%. Moderate fungal frequency were recorded with *Rhvnchaphorus feminine us* and recorded 8.8%. follow ea by *Sezaru viridula* and *Sesamia creliea* insects which recorded (7 0% i and ('ocmeia undeempunctaia which recorded ;\,Vd>. I..ess fungal frequencies were recorded with each of *Etiella zinc ken* and *Ricris ntpuc* insects which recorded (1 .8%).

Based on utlturaf morphological t haracierkuc hi<.,jN.a* u-a-* ' and Scannme 1 lectron Microsome mdicated in .it ai! Meiarin/m; isolates were ideniilled as |J >i>i^<>p;/:. which h;d e.aiidcn w \ 'ane c. in between ^-^fum.

Bio a^sj\ toM reclined mat. v\ mc^e ^ur-vJ ;:ida>.- -a' l consider -d pathogenu n* ^ !>nm" rr la<<\al lesied \:<o Ui.^e '-ua, - e;e U<i ad n- be /ai^cd ^:nn;ie aid m hig»nT mnrjj.jju ^>mp ;:ML *' .1L die control and i in- " <v;ani\ mdi.' _d K the path w a- h una v