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## Entomopathogenic Fungi as A biological Control Agents on green peach aphid, *Myzuspersicae* in Potatoes Crop.

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**Abstract:** This study was carried out during two successive potatoes seasons (2016-2017), to study of entomopathogenic fungi on green peach aphid, *Myzuspersicae*(Sulzer). The aphid Populations was evaluated in the field early in the season in December 2016, which began to appear on potatoes plants. Thereafter number of aphids increased gradually to reach a peak of abundance during to the first of December 2016 and to the first of January 2017. In laboratory experiment, the mortality of aphids was recorded daily. *Verticilliumlecanii* and *Beauveriabassiana* caused 100 % mortality at the 8<sup>th</sup> day after inoculation. In field experiment, the first spray of the fungi (*Verticilliumlecanii* or *Beauveriabassiana*) with concentrations 1 x  $10^{-4}$ . 1 x  $10^{-5}$  and 1 x  $10^{-6}$  spores /ml. was took place in December 2016 as well as 2017. The aphid populations were declined in the second week of spray to 2.67, 2 and 1.66 when treated with *Verticilliumlecanii* at tested concentrations, respectively. Also, aphid populations were declined to 3.33, 7 and 2.67 when treated with *Beauveriabassiana* at the same concentrations, respectively. While, in the third week the populations were declined to 0.33 when treated with *Verticilliumlecanii* at concentration 1 x  $10^{-6}$  spores /ml.

Keywords: Verticilliumlecanii, Beauveriabassiana, Myzuspersicae, Control

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