

Effect of Two Entomopathogenic Fungi *Beauveria bassiana* and *Metarhizium anisopliae* var. *acridum* on the Haemolymph of the Desert Locust *Schistocerca gregaria*

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Abstract : Effect of *Beauveria bassiana* and *Metarhizium anisopliae* var. *acridum* on the 5th instar nymphs of *Schistocerca gregaria* was studied in the laboratory. Infection by these both entomopathogenic fungi caused reduction in the hemolymph total protein. The average amounts of total proteins were 2.3, 2.07, 2.09 $\mu\text{g}/100\text{ ml}$ of haemolymph in the control and *M. anisopliae* var. *acridum*, and *B. bassiana* based-treatments, respectively. Three types of haemocytes were recognized and identified as prohaemocytes, plasmatocytes and granulocytes. The treatment caused significant reduction in the total haemocyte count and in each haemocyte type on the 9th day after its application.

Keywords : *Beauveria bassiana*, haemolymph picture, haemolymph protein, *Metarhizium anisopliae* var. *acridum*, *Schistocerca gregaria*

Conference Title : ICBBPS 2014 : International Conference on Bioscience, Biochemistry and Pharmaceutical Sciences

Conference Location : Istanbul, Türkiye

Conference Dates : November 28-29, 2014