

Proteomic Analysis and Identification of the Proteins from Normal and Wounded *Gryllus bimaculatus*

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Innate response of insects is highly efficient. It comprise the cellular defense reaction including phagocytosis, encapsulation, the synthesis of antimicrobial peptides by fat body wound healing response. In wound healing response, these innate responses could be occurred.

We analyzed the proteins of hemocyte, hemolymph, fat body, hemopoietic organ in normal and wounded *Gryllus bimaculatus*. Proteins present in these samples were separated by 2-DE gel electrophoresis and compared the pattern depending on the wounded group. A comparison of the protein pattern between the wounded and control group showed that 40 newly detected, 65 up-regulated spots were significantly detected on four kinds of samples of wounded group and 30 spots were detected only in the samples of normal object.