

#### 4-7. Expression of a New Viral Enhancing Factor (Enhancin) Gene of *Lymantria dispar* Nucleopolyhedrovirus

Hee Jin Shim, Jong Yul Roh, Jae Young Choi, Ming Shun Li,  
Kyung Saeng Boo and Yeon Ho Je

*School of Agricultural Biotechnology, Seoul National University, Suwon 441-744, Korea*

An *enhancin* gene that is capable of enhancing the infection of other baculoviruses, has been identified from *Lymantria dispar* nucleopolyhedrovirus isolated in Korea (LdNPV-NM). The *enhancin* gene was cloned by PCR and its nucleotide and amino acid sequences were determined. The LdNPV-NM *enhancin* gene was composed of 2,352 nucleotides and encoded 783-amino acids. The *enhancin* gene was inserted into pBacPAK9 transfer vector, under the control of the polyhedrin promoter, and cotransfected into Sf9 insect cells with bAcGOZA. The recombinant virus was purified by end-point dilutions. The expressed enhancin was estimated 89 kDa in size by SDS-PAGE.