

## E121

Antimicrobial peptides from the skin secretions of Korean fire-bellied toad, *Bombina orientalis*

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The peptide-containing secretions were induced by mild electrical shock and collected from the skin of *Bombina orientalis* by washing the dorsal region of toad with 0.05% acetic acid. Three antimicrobial peptides were isolated from the skin secretion by an ion exchange chromatography and reversed-phase fast performance liquid chromatography. There were four antimicrobial peaks at the ion exchange chromatography and the major antimicrobial peak was subjected to FPLC. They were cationic peptides of low molecular weight and found to have a broad antimicrobial spectrum. We will discuss these peptides.

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### **Cloning of Hormone Gene Related to Goat Growth -Growth Hormone**

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Growth Hormone(GH) , one of the growth related Hormone , is secreted in pituitary by Growth Hormone Releasing Hormone stimulation. GH induced several gene expression and then promoted the animal growth. The growth influence of growth hormone is mediated largely hepatic production of insulin like growth factor. Goat growth hormone gene is about 2.2 kilobase pairs in length. Goat GH gene was amplified by PCR reaction, and then PCR product was cloned into pBluescript SK(+) plasmid. By DNA sequence analysis, a few sequences of cloned GH was different from previously reported goat sequence. Lambda fixII goat genomic DNA library was screened by hybridization, using the PCR cloned DNA probe. A single positive clone was isolated. This clone was containing about 9 kilobase pairs fragment of GH gene. (HRC-96-0402)