

B16

Cytotoxicity and L-Amino Acid Oxidase Activity of Insect Crude Drugs

Mi Young Ahn, Kang Sun Ryu, Yong Woo Lee, Yong Ki Lee
and Yeong Shik Kim¹

Dept. of Sericulture and Entomology, NIAST, Suwon, 441-100, Korea
¹Natural Products Research Institute, Seoul National University, Seoul
110-460, Korea

The cytotoxicity of insects crude drugs was measured using HeLa cells originated from human cervix and uterine cancer by dye uptake assay (XTT method) in order to find effective anticancer agents. Three kinds of extracts (water, methanol and ethylacetate) were prepared from 26 insects and used as raw materials for the activity assay. Among them, the buffer extracts from *Tabanus*, *Mylabris* and *Huechys* showed a potent anticancer activity and those from *Catharsius*, *Vespae Nidus*, *Scorpion* and *Tabanus* showed a strong AAO activity as well as cytotoxicity. In contrast, the buffer extracts from *Gryllotalpa orientalis* and *Apriona germari* Larvae exhibited cell growth as high as that of other insects.