Evaluation of *Heterorhabditis megidis* Andong and *Steinernema carpocapsae* Pocheon Strain for Controlling Housefly, *Musca domestica* and Flower Beetle, *Gametis jucunda*

Sang Chan Han, Sang Jin Kang, Yonggyun Kim and Gyeong hui Choi[1]

School of Bioresource Sciences, Andong National University

[1]Taegu Apple Research Institute, Gunwi

Two entomopathogenic nematodes, *Heterorhabditis megidis*, and *Steinernema carpocapsae*, were analyzed and compared in their insecticidal activities against the housefly, *Musca domestica*, and the flower beetle, *Gametis jucunda*. *S. carpocapsae* was more potent (LC50 = 115.9 IJs) against the second instar larvae of the houseflies than *H. megidis* (LC50 = 456.4 IJs). In the pre-field, both *S. carpocapsae* and *H. megidis* were effective to control the housefly maggots with control efficacies of 63.1% and 67.4%, respectively. And *H. megidis* and *S. carpocapsae* were effective to control the second instar larvae of the flower beetle in laboratory test (control efficacies: 100%, 86.6 %, respectively). In the field, both *S. carpocapsae* and *H. megidis* were effective to control the flower beetle with control efficacies of 62.5% and 66.6%, respectively. These results suggest that the two entomopathogenic nematodes can be promising biological agents to control the houseflies and the flower beetles.