

# **Fishy Smells as Potent Attractants for the Bean Bug, *Riptortus clavatus* (Thunberg) (Hemiptera: Alydidae)**

**Su Joung Kim, Hye-Soon Huh, Kyeong Sik Han<sup>1</sup>  
and Chung-Gyoo Park**

Chemical Ecology Laboratory, Gyeongsang National University,  
Jinju, 660-701, Republic of Korea

<sup>1</sup>Dept. Urban Horticulture, Shingu College, Seongnam 462-743, Republic of Korea

Fish materials and components of fishy smell were tested for their attractiveness to bean bug, *Riptortus clavatus* (Thunberg) in soybean field. Heads of mackerel attracted significantly higher number of *R. clavatus* than that of control. The other fish materials such as head of hairtail and gizzard shad, and pickled anchovy also attracted more numbers, with no significant difference from control. Very interestingly, 98.8% of the catches were male. Components of fishy smell, trimethylamine and dimethylamine, did not attract significantly more numbers than control in the field, even though they elicited significantly higher responses to *R. clavatus* males in olfactory tests in laboratory. Further studies are needed to identify chemicals from fishy smell responsible for the attraction of *R. clavatus* males. Advantages using fish materials in management and monitoring of *R. clavatus* will be discussed.