

Biological Residual Effect of PCBs on Immature Development of *Spodoptera exigua*

Park, Sangsoon and Yonggyun Kim

School of Bioresource sciences, College of Natural Sciences, Andong National University,
Andong, 760-749, Republic of Korea

Polychlorinated biphenyls (PCBs) are nondegradable pollutants and known to affect physiology of organisms. The persistent residual character of PCBs was evaluated on immature development of *spodoptera exigua* as a model insect because of its wide-range occurrence and high reactivity against toxic chemicals. Exposure of egg stage to PCBs mixtures gave direct lethal effect on egg development. Larvae hatched from the treated eggs also suffered in their development even under PCB-free condition.

These results suggest that PCBs can give residual harmful effect on insect development.