For Immediate Release

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Study: Bed Bug Reproduction and Feeding are Drastically Reduced by Exposure to *Active*Guard Fabric

Sublethal Effects Found After Very Short Periods of Contact

April 15, 2015 (Ambler, PA) - Bed bug reproduction and feeding are significantly reduced by *Active*Guard® fabric, according to a study published by Susan Jones, Ph.D. and her team of urban entomologists at The Ohio State University. "Sublethal Effects of *Active*Guard Exposure on Feeding Behavior and Fecundity of the Bed Bug (Hemiptera: Cimicidae)" demonstrated that even highly resistant bed bugs lay markedly fewer eggs when exposed to *Active*Guard for as little as ten minutes, and that almost all female bed bugs lost the ability to deposit eggs. The study appears in the April 1, 2015 issue of the peer-reviewed *Journal of Medical Entomology*; the research was supported by a grant from Allergy Technologies LLC.

Dr. Jones also demonstrated that after contact with *Active*Guard fabric, bed bugs were significantly less likely to attempt to feed. "Feeding in bed bugs and fecundity are very tightly coupled," Jones said. "If a female bed bug doesn't feed, then she is unlikely to lay eggs, and if she doesn't lay eggs, then the life cycle is interrupted."

Sublethal effects are defined as behavioral changes observed after exposure to *Active*Guard but prior to the bugs' death. They begin to develop after only one minute of contact with *Active*Guard. Dr. Jones' research approach merits a new look at how pesticides may affect bed bugs well before the classic endpoint of death.

The results of this study have practical applications for long-term prevention and control of bed bugs. "When a bed bug cannot feed, the results are fewer bites; a loss in the ability of nymphs to mature; and the inability of adults to reproduce. This translates to profound long-term effects on the reduction of bed bug populations," said Joseph Latino, President of Allergy Technologies, maker of *Active*Guard® Mattress Liners.

This study may also provide insight and an important bridge to previously published field research showing significant reductions in bed bug incidents in hotels and shelters when using *Active*Guard as a long term preventative solution.

*Active*Guard Mattress Liners are made from special polyester fabric that offers sustained availability of permethrin uniformly over time. *Active*Guard is used by hotels, cruise lines, medical facilities, colleges, in private homes, and by pest management professionals.

For more on this paper visit http://www.allergytechnologies.com/blog.

About Allergy Technologies
Allergy Technologies LLC is committed to the creation and manufacture of innovative, effective and consumer-friendly products addressing major issues in both pest control and healthcare. The managers and employees of Allergy Technologies are stewards of the community and environment, making meaningful contributions to impactful philanthropic

causes. Consistent with the *Philanprofit* spirit of its founder, a portion of all Allergy Technologies profits are dedicated to improving the lives of others.

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