Special Issue

Efficacy of Household and Agricultural Insecticides

Message from the Guest Editor

Over the last couple of decades, we have been dedicating a large amount of attention and efforts to screening new and safer alternatives of synthetic insecticides to deal with the rapid increase of insecticide resistance by the insect pests in agricultural and public environments. Commercial insecticidal products consist of many other inert substances, and sometimes, those 'inert' materials can either show some effects on target insects or interact with the active ingredients. For example, hydrocarbon-based solvents in household aerosol insecticides can have a physical effect on mosquitoes by disrupting their flight and respiration, which also can be applied to resistant strains. On top of this, solvents may lower the surface tension of the pyrethroid insecticides to assist their cuticular penetration. In this Special Issue, we'd like to invite leading research entomologists and formulation scientists to extend our knowledge on efficacy of insecticidal products in lab- and field-scale trials. Moreover, reviews on efficacy test guidelines are also welcome.

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