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Recent Advances in Pest Control Strategies in Agroecosystems

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Message from the Guest Editors

For years, monocultures have been composited by a single plant species and represent an extreme example of low diversity. This agricultural system is more susceptible to pests and, consequently, a high degree of management and inputs are required to maintain low insect populations. Agroecosystems support the food production systems in farms and promote the biodiversity needed to maintain the natural enemies of insect pests. Thus, some technologies in modern systems aim to achieve efficient pesticide application, insect entomophagous liberation, entomopathogenic microorganism incorporation, and the use of semiochemicals, among others. This Special Issue aims to publish advances in the use of biorational (natural or synthetic) insecticides, the application of entomophagous (parasitoids or predators) and entomopathogenic (fungi, bacteria, or viruses) organisms as biocontrol agents, and the use of pheromones for pest control in agroecosystems. Existing IPM practices must be continually optimized, as well as the development of innovative new IPM tools.

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Message from the Editor-in-Chief

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