

Special Issue

Pest Control and Insect Behavioral Ecology

Message from the Guest Editor

Sustainable pest control includes diversified and complementary approaches to reduce conventional insecticide applications. Approaches to managing the behaviors of pests and entomophagous beneficials in a multitrophic interactive way are increasingly included in IPM. Push–pull strategies to repel pests and/or attract predators/parasites can be promoted either by using semiochemical releasers or by including odor-emitting plants in intercropping/mixing crops. Attract and kill strategies are another way to control pests by combining odor release and physical trapping. Crop plot management promoting innovative semiochemicals to be spread, either from synthetic systems or from selected plants in agro-ecosystems, leads to the reduction of pest populations with ecosystemic service promotion from beneficials. Interactions with plant pathogens are considered in terms of biocontrol compatibility, synergy, or opposition. The Special Issue will include the latest developments in the biological control of agricultural pests, considering the effect of a diversity of plants/volatile organic compounds on insect behavior/crop interactions enhancing bio-control efficiency.

Guest Editor

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Message from the Editor-in-Chief

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