

Special Issue

Ecological Aspects as a Basis for Future Pest Integrated Management

Message from the Guest Editors

Knowledge of the ecology of insects, mites, vertebrate and invertebrate pests, weeds, and phytopathogens is one of the pillars of integrated pest management. Pests should be understood as populations that are out of balance and cause economic losses. Ecological knowledge about these populations is crucial for longer-lasting pest management with reduced environmental and social impact. The diversification of agroecosystems, agroforests, biological control, the push-pull technique, the sterile insect technique, and the search for selective agrochemicals within an area-wide approach depend significantly on this ecological knowledge. This Special Issue invites the submission of original research articles and reviews to deepen ecological aspects as a basis for future integrated pest management, such as demographic traits, ecology and evolution of behavioral patterns, population dynamics, diversity, abundance, trophic relationships, host range and status, natural enemies, niche, distribution modeling, phytosociology, allelopathy, competition, absent quarantine pests, and epidemiology.

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