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Pests, Pesticides, Pollinators and Sustainable Farming

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Modern agriculture faces the dual challenge of ensuring food production while preserving biodiversity and ecosystem resilience. Crop pests remain a major threat to global food security, yet heavy reliance on synthetic pesticides has led to pest resistance, loss of beneficial organisms, pollinator decline, and environmental contamination. Addressing these issues requires sustainable pest management strategies that minimize chemical inputs, enhance ecosystem services, and protect pollinators—the cornerstone of agricultural productivity.

This Special Issue, *“Pests, Pesticides, Pollinators and Sustainable Farming,”* presents thirteen multidisciplinary papers advancing ecologically compatible crop protection. The studies span field ecology, biocontrol, precision agriculture, and pollinator-friendly management, offering a roadmap toward sustainable production aligned with the European Green Deal and the Farm to Fork Strategy.

Contributions highlight the value of habitat diversification and pollinator conservation, the potential of essential oils, microbial agents, and entomopathogenic fungi as biopesticides, and the use of unmanned aerial systems, remote sensing, and artificial intelligence for precision pest detection.

