

Special Issue

Insect Transmission of Plant Viruses

Message from the Guest Editors

The transmission of plant viruses by insect vectors is a critical process in plant pathology and viral disease epidemiology. This Special Issue aims to publish newly gained knowledge on the biological and ecological mechanisms by which insects acquire, retain, and inoculate viruses into host plants. Key areas include insect vectors (e.g., aphids, whiteflies, leafhoppers) and their interactions with viruses, categorized into transmission modes such as non-persistent, semi-persistent, and persistent-circulative pathways, which depend on viral retention sites (e.g., stylets, midgut, salivary glands). Additionally, it also explores how plant–virus–insect tripartite interactions influence insect vector behavior and virus spread. The published data will contribute to the sustainable prevention and control of insect-borne plant virus diseases.

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Message from the Editor-in-Chief

Editor-in-Chief

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JCR - Q1 (Entomology) / CiteScore - Q1 (Insect Science)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 18.1 days after
submission; acceptance to publication is undertaken in 2.9
days (median values for papers published in this journal in
the first half of 2025).