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

Arthropods are a diverse and abundant group of animals that are important to a variety of research dictates. For example, hexapods act as bio-indicators of ecosystem function and pest status and serve as model systems for questions concerning physiology, embryology, genetics, and social interaction. The editorial board and staff at Insects is committed to providing contributors an open access forum to showcase objective and innovative research as well as succinct review articles. Our journal is dedicated to providing timely and thorough review of qualified submissions and we welcome you to submit a contribution.

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