

Special Issue

Viral Diseases and the Threats of Their Arthropod Vectors to Crop Health: Surveillance, Detection, and Early-Warning Systems

Message from the Guest Editors

Diseases caused by plant viruses pose serious threats to crop production worldwide. About 1100 plant viruses have been reported, causing crop economic losses of up to USD 100 billion per year. Most plant viruses rely on the transmission of arthropod vectors. The monitoring and early warning of plant viruses and their vectors form the foundation of crop virus diseases. Simultaneously, developments in genome sequencing technology, nucleic acid amplification methods, and epidemiological modelling provide unprecedented opportunities for plant virus experts to address these major threats to food security and livelihoods.

By acknowledging the relevance of the anticipation of future epidemics and understanding that this goal can only be achieved by accumulating knowledge through high-quality science and appropriate surveillance and detection, we welcome original research and reviews on plant–virus–vector interaction mechanisms, surveillance and evolution, detection, and early-warning studies.

Guest Editors

Dr. Zuqing Hu

Dr. Huiyan Zhao

Dr. Lei Zhao

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Agronomy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

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Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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