

Special Issue

Emerging Molecular Diagnostics for Plant Virology

Message from the Guest Editors

Viral diseases are a major threat to agriculture, and disease management relies on efficient diagnostic tools for virus identification. With the emergence of viral diseases due to the ability of viruses to rapidly evolve, the movement of infected plant and the impact of climate change on virus–vector–host interactions, a variety of diagnostic tools will need to be available. The diagnostic techniques such as ELISA, TBIA and molecular techniques have improved viral diagnostics. High-throughput sequencing and bioinformatics have been used to obtain genomes, leading to the discovery of viruses, and species diversity. LAMP is being utilized, enabling virus identifications to be taken out of the lab and into the field. Emerging techniques for viral diagnostics are used more commonly for field surveillance and to improve our understanding of viral epidemiology—a critical step towards improving disease management of viruses to achieve sustainable agriculture. This Special Issue will cover a variety of molecular-based tools, both laboratory- and field-based, aimed at identifying, classifying and understanding the epidemiology of plant viruses, including phytoplasmas.

Guest Editors

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

Editor-in-Chief

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