Special Issue

Diagnosis and Control of Plant Viral Diseases

Message from the Guest Editor

Plant viruses are responsible for economic and agronomic losses worldwide. Viral diseases are difficult to control, as diagnosis, sanitation, sanitary certification, cross protection, plant resistance and vector management are all key factors for the appropriate control of these diseases. In this scenario, rapid and accurate methods for the detection of new variants of known viruses as well as new viruses are essential tools. Besides more traditional methods such as biological indexing, electron microscopy, hybridization, ELISA and conventional PCR, in the recent years there has been an exponential increase in the number of protocols based on real-time PCR and LAMP, now routinely applied worldwide. In addition, with the advent of next generation sequencing or high throughput sequencing (HTS), new viruses have been discovered, facilitating the association and identification of the etiological agents of unknown viral diseases. This Special Issue focuses on the state of the art of these methodologies in an attempt to solve the challenges posed by plant viral diseases.

Guest Editor

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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.

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