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Virus Detection and Quantification in Plants

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Message from the Guest Editors

Plant viruses account for a significant proportion of economically important diseases in major crops. The recent emergence of several novel virus species, such as tomato brown rugose fruit virus, threatens the production of several important crops and has required a rapid response by diagnosticians to develop rapid and reliable diagnostics.

To successfully control viruses in plants, it is necessary to know the events involved in disease development. Quantitative analysis can be used to estimate the viral load in plants as an indicator of active infection, stage of infection, progress of infection, and to study host defenses during the infection process. Quantitative changes in viral titers during infection may indicate bottlenecks in virus infection cycles that can be used to develop new control strategies.

In this Special Issue, we focus on state-of-the-art methods for the detection and quantification of plant viruses based on nucleic acid amplification, next-generation sequencing, etc. We invite you to contribute your original studies or review articles on these topics.

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Message from the Editor-in-Chief

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We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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