Special Issue

Virus Detection and Quantification in Plants

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.

Guest Editors

Dr. Ana Vučurović

Department of Biotechnology and Systems Biology, National Institute of Biology, Ljubljana, Slovenia

Prof. Dr. Masamichi Nishiguchi

Department of Biological Resources, Ehime University, Matsuyama 790-8566, Japan

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

mdpi.com/journal/plants

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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

Prof. Dr. Dilantha Fernando
Department of Plant Science, University of Manitoba, Winnipeg, MB R3T 2N2, Canada

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