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Plant-Virus Interactions

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Message from the Guest Editor

Phytoviruses are one of the main threats to crops. For sustainable and healthy agricultural production, in-depth knowledge of the close interactions that viruses, obligate intracellular parasites, establish with their hosts will be required. Some, though not all, of the questions that deserve further attention include: (i) Molecular analysis of components, in either the virus or the plant, which affect or modulate plant–virus interactions; (ii) molecular bases of viral pathogenesis; (iii) effects of environmental conditions on the outcome of plant–virus interactions; or (iv) interference of viral infection with host signal transduction pathways. In addition, the potential of viruses to be used as tools for rewiring metabolic pathways or for inducing stress resistance in plants is only starting to be looked at. With the advent of “omic” technologies and, more recently, the development of highly efficient next generation sequencing approaches, together with the continuous improvement of data analysis pipelines, new avenues are opened to shed additional light on the intricate interplay between viruses and plants.



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Message from the Editor-in-Chief

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