

Special Issue

Role of RNA and ssDNA Viruses in Plant–Virus/Viroid Interactions

Message from the Guest Editors

RNA and single-stranded DNA (ssDNA) play pivotal roles in plant–virus and plant–viroid interactions, significantly influencing plant health and agricultural productivity. Understanding these interactions is essential for developing innovative strategies to manage plant diseases caused by these pathogens. This Special Issue seeks to compile cutting-edge research on the multifaceted roles of RNA and ssDNA in plant–virus/viroid interactions, including the molecular mechanisms of replication, host–pathogen interactions, virus and viroid evolution, and the latest bioinformatics approaches to study these processes. We invite original research articles, comprehensive reviews, case studies, and perspectives that explore various aspects of RNA and ssDNA in plant–viral/viroid interactions. Topics of interest include, but are not limited to, the molecular dynamics of RNA and ssDNA replication, mechanisms of plant defense responses, virus and viroid transmission and evolution, including co-infection of viruses, recombination, and generation of virus and viroid variability, and the impact of these pathogens on plant physiology and crop yield.

Guest Editors

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Deadline for manuscript submissions

closed (30 April 2026)



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Editor-in-Chief

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