

Special Issue

Molecular Mechanisms of Viroids and Viroid Diseases

Message from the Guest Editor

Viroid is the smallest pathogen consisting of a circular single-stranded RNA of ~250–400 nucleotides. Despite its nature of non-coding RNA, once it has entered a host cell, viroid replicates relying on the host transcription machinery and spreads from the infected cells throughout the plant, causing virtually asymptomatic to very severe disease symptoms.

Such biological functions of viroids are generated by direct and indirect interactions between molecular elements embedded in the highly structured viroid RNA or viroid-derived small RNAs produced by RNA silencing targeting the viroid and host factors involved in the regulation of defense or development.

In this Special Issue, we will focus on the latest information on the molecular functions of viroids and on viroid diseases and call for submission of manuscripts on the molecular factors in viroid RNA that control replication, transport, transmission or pathogenicity, on the impact of viroid infection on the host transcriptome or metabolome, and on host genes, microRNAs, transcription factors, etc. that are involved in the development of specific viroid diseases.

Guest Editor

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Deadline for manuscript submissions

closed (31 August 2020)



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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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