



Molecular Mechanisms of Viroids and Viroid Diseases

Guest Editor:

Dr. Teruo Sano

Hirosaki University, Aomori,
Japan

Deadline for manuscript
submissions:

closed (31 August 2020)

Message from the Guest Editor

Dear Colleagues,

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.

Dr. Teruo Sano
Guest Editor



mdpi.com/si/36130

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI