Special Issue

Plant Viruses and Virus-Induced Diseases

Message from the Guest Editors

These years of discoveries have shown us that viruses constitute excellent probes to dissect basic plant biological processes, including transcriptional, posttranscriptional and translational control of gene expression, macromolecular trafficking and transport routes, basal and induced plant defence mechanisms, and many other areas of the plant architecture, development, physiology and metabolism. Plant viruses, on their own, are fascinating entities, having evolved an incredible array of smart strategies to express their genes from very compact genomes. Using very few building blocks, often a single polypeptide and a nucleic acid molecule, plant viruses produce transmission and persistence particles with amazing properties and an incredible biotechnological potential. Last, but not least. plant viruses cause global and regional economic losses in agriculture, being responsible for a significant proportion of devastating emergent and re-emergent plant diseases; plant virology has provided important solutions, but there is still more to come.

Guest Editors

Prof. Dr. Miguel A. Aranda

Centro de Edafología y Biología Aplicada del Segura (CEBAS)—Consejo Superior de Investigaciones Científicas (CSIC), Campus Universitario de Espinardo, Edificio 25, 30100 Murcia, Spain

Prof. Dr. Yongliang Zhang

State Key Laboratory of Plant Environmental Resilience, College of Biological Sciences, China Agricultural University, Beijing 100193, China

Deadline for manuscript submissions

closed (15 March 2019)



International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed



mdpi.com/si/11337

International Journal of Molecular Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 ijms@mdpi.com

mdpi.com/journal/ ijms





International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed





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.

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

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 and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

