

## Special Issue

# Gene Transcriptional Regulation in Crops during Postharvest

### Message from the Guest Editors

The market for fruit and vegetables has been growing consistently. However, after harvest, commodities remain metabolically active and undergo ripening and senescence processes, compromising fruit quality. Furthermore, in some cases postharvest handling is limited due to the susceptibility of fruit and vegetables to develop postharvest diseases, injuries, and disorders during storage. The research in this field could contribute to minimizing waste and postharvest losses, which is a huge challenge that must be addressed urgently. In this sense, deep knowledge of the molecular mechanisms implicated in the postharvest processes could help to improve postharvest technologies for controlling physiological changes. Different works have been focused on the analysis of independent genes. However, in recent years, gene expression microarray has provided the potential for gene-expression studies during postharvest. RNA-seq in combination with bioinformatics analysis have emerged as state-of-the-art techniques for global transcriptome analysis; they are used to investigate the molecular regulatory networks underlying the responses of fruit and vegetables during postharvest storage.

---

### Guest Editors

Dr. M. Teresa Sanchez-Ballesta

Institute of Food Science, Technology and Nutrition (ICTAN-CSIC), Madrid, Spain

Dr. Irene Romero

Institute of Food Science, Technology and Nutrition (ICTAN-CSIC), Madrid, Spain

---

### Deadline for manuscript submissions

closed (30 June 2021)



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/36197](https://mdpi.com/si/36197)

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

[mdpi.com/journal/  
ijms](https://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



[mdpi.com/journal/  
ijms](https://mdpi.com/journal/ijms)



## About the Journal

### Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* 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, and molecular biophysics. *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. José L. Quiles  
Department of Physiology, Institute of Nutrition and Food Technology  
"Jose Mataix", Biomedical Research Center, University of Granada,  
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

---

### 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, CAPus / SciFinder, and other databases.

#### Journal Rank:

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