## **Special Issue**

## Nitric Oxide Signalling and Metabolism in Plants 2023

## Message from the Guest Editors

Nitric oxide (NO) is an unstable free-radical gas which consists of one nitrogen and one oxygen atom. An explosion of research in plant NO biology during the last two decades has revealed that it is not just as a free radical released from the toxic byproducts of oxidative metabolism but that it also helps in plant sustenance when exposed to several abiotic stresses from the beneficial role of NO in plants. It also has a role as a signal molecule and transducer that functions in numerous plant growth and development processes, ranging from seed germination to root development to blossom. Some investigations have highlighted the crosstalk of NO with other gas signal molecules as well as plant hormones, such as hydrogen gas, hydrogen sulfide, auxins, gibberellins, abscisic acid, cytokinins, ethylene, salicylic acid and jasmonic acid, under normal conditions or diverse stresses. Research on NOmediated S-nitrosylation of specific proteins and specific S-nitrosylation sites has also been carried out. This knowledge allows researchers to explain the effect and mechanism of NO in fields such as plant growth and development, abiotic stress, fruit, cut-flower, and several others.

### **Guest Editors**

Prof. Dr. Abir U. Igamberdiev

Prof. Dr. Weibiao Liao

Prof. Dr. José M. Palma

## Deadline for manuscript submissions

closed (15 April 2024)



# International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed



mdpi.com/si/153071

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)

