Special Issue

Gasotransmitters in Plants: Physiological Functions and Potential Applications

Message from the Guest Editors

In recent decades, the functions of gasotransmitters have been actively researched in plants through exogenous supply and genetic manipulation. Furthermore, the endogenous roles and emissions of gasotransmitters have been explored by constructing mutants related to the enzymatic synthesis of gasotransmitters. Previous studies have provided considerable evidence to show that gasotransmitters including NO, H2S, CO, and H2 in plants play a crucial role in influencing tolerance to biotic and abiotic stresses, growth and development, senescence, autophagy, etc. Several gasotransmitters, such as NO, H2S, and H2, are normally used to delay the postharvest senescence of multiple horticultural products. However, more physiological functions and potential applications remain to be discovered. This Special Issue of *Plants* will highlight the functions and applications of gasotransmitters in model plants, crop plants, trees, aquatic plants, etc. In particular, the positive results of field trials related to the application of gasotransmitters in agriculture are welcomed.

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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