Special Issue

The Role of Abscisic Acid (ABA) Machinery in Stress Response

Message from the Guest Editor

The phytohormone abscisic acid (ABA) is a key regulator of plant water use efficiency and stress physiology. ABA is also a growth regulator under normal conditions, as well as a developmental cue. ABA's machinery includes components ranging from synthesis to molecular perception, signaling and response. Moreover, knowledge concerning the fine regulation of these ABA machinery components is emerging. This Special Issue of *Plants* on "The Role of Abscisic Acid (ABA) Machinery in Stress Response" intends to assemble original research articles and review papers regarding the ABA machinery in plants, ranging from synthesis to response. We are convinced that a better understanding of how ABA machinery works at a basic level would provide us an advantageous position for overcoming the negative food productivity effects of climate change. Main topics:

- ABA synthesis and transport;
- ABA inactivation and conjugation;
- ABA core signaling function and regulation.

Key Words: ABA synthesis; ABA transport; ABA inactivation; ABA conjugation; ABA perception; ABA receptor; ABA signaling; ABA response; PYL receptors; PP2CA phosphatases; SnRK2 kinases

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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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