

Special Issue

Advances in Molecular Mechanisms of Plant Epigenetics

Message from the Guest Editor

Epigenetic mechanisms are defined as potentially heritable changes in gene expression that do not involve alteration in the underlying DNA sequence, such as DNA methylation, histone modifications, chromatin alterations, and the activity of non-coding RNAs. They have a decisive function in regulating plant growth and development, as well as plant responses to the environment. Furthermore, epigenetic processes significantly impact plant development and the heritability of multiple plant traits. The involvement of epigenetic mechanisms in plant biology has been documented. Understanding how epigenetic regulation is involved in plant growth, development, and response to environmental stress is highly desirable, not only for a better understanding of the molecular mechanisms of plant responses to developmental or environmental cues, but also for possible applications in the genetic manipulation of plants. The proposed topic is focused on molecular mechanisms of epigenetic regulation of plants. We welcome all types of articles (original research, methods, opinions, and reviews) that provide new insight into different aspects of plant epigenetic mechanisms.

Guest Editor

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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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