Special Issue

Molecular Mechanism of Seed Germination under Different Environment Conditions

Message from the Guest Editors

Seeds are one of the basic resources for agricultural production, whose germination begins with imbibition and ends with radicle emergence. Successful germination with rapid and uniform seedling establishment is important for crop yield. Numerous studies have shed light on the molecular and physiological basis regulating seed germination in Arabidopsis and some crops. However, environments in the field are totally different from those in controlled lab conditions, as fields are coupled with multiple abiotic and biotic stresses. Knowledge about the molecular and physiological mechanisms underlying the environmental effects on germination has been lacking. The main purpose of this Special Issue, entitled “Molecular Mechanism of Seed Germination under Different Environmental Conditions”, is to compile the most recent discoveries on seed physiology, genetics, biochemistry and omics in response to biotic and abiotic stresses, with the aim of promoting research in the field of seed germination. We welcome original research papers, perspectives, opinions and reviews focused on this domain area.

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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.

Editor-in-Chief

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