

Special Issue

Seed Protective Mechanisms

Message from the Guest Editor

Because the success of seed germination and seedling establishment determines reproductive success and plant fitness, many protective and resistance mechanisms have developed to overcome (a)biotic constraints and optimise plant propagation. From seed formation and maturation to dispersal and seedling emergence, many primary and secondary metabolisms, regulatory networks, hormonal pathways and physicochemical and structural features have been identified for their contribution to the outstanding ability of seeds to resist adverse environmental conditions. These adaptive mechanisms illustrated the by longevity, dormancy, drought and temperature tolerance properties of seeds and their atypical interactions with biotic environments are currently well documented by physiological studies that now benefit from the development of phenotyping tools, microscopy imaging, molecular genetics and genomics. This Special Issue is dedicated to updating knowledge on contribution of the tolerance and adaptive mechanisms developed by seeds to face environmental constraints and successfully ensure the establishment of the next plant generation.

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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