



Seed Germination, Stress Tolerance and Aging: Physiological and Molecular Aspects

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Message from the Guest Editors

Dear Colleagues,

Seed quality is crucial to optimize sowing and ensure high yields for farmers across the globe. It is a complex trait relying on a network of physiological and molecular features, with a degree of intra- and interspecific variability. This has implications not only in shaping their interaction with environmental stressors and storage conditions, but in optimizing seed lot management and the development of invigoration protocols.

The scope of this Special Issue covers the physiological and molecular aspects of seed metabolism underlying stress tolerance and aging, including dormancy, hormonal regulation, osmoprotectant accumulation, antioxidant mechanisms, and DNA damage response, among others. It is open to original research, reviews, and opinion articles describing interdisciplinary and high-throughput approaches to elucidate these mechanisms in crop and wild species, as well as their impact on the development of pre- and postsowing techniques to improve seed quality and vigor.





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Message from the Editor-in-Chief

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