

Special Issue

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

Message from the Guest Editors

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.

Guest Editors

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Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

Editor-in-Chief

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