



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

Guest Editors:

Dr. Andrea Pagano

Department of Biology and
Biotechnology 'Lazzaro
Spallanzani', University of Pavia,
27100 Pavia, Italy

Dr. Susana de Sousa Araujo

Association BLC3—Campus of
Technology and Innovation,
Centre BIO R&D Unit | North
Delegation, Rua Comendador
Emílio Augusto Pires, Edifício
Side Up, 5340-257 Macedo de
Cavaleiros, Portugal

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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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Editor-in-Chief

Prof. Dr. Les Copeland

Sydney Institute of Agriculture,
School of Life and Environmental
Sciences, The University of
Sydney, Sydney, NSW 2006,
Australia

Message from the Editor-in-Chief

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Agriculture Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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