



## Molecular Networks Regulating Seed Maturation, After-Ripening, Dormancy and Germination

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### Message from the Guest Editor

Understanding the molecular mechanisms underlying seed life that allow seeds to be properly constituted, arrest embryo growth and ultimately germinate under favourable conditions, constitutes an important topic in plant molecular biology. Transcriptional and post-transcriptional regulation of gene expression play key roles in a wide range of plant life processes and stages. This is the case of seed life, which requires highly coordinated gene expression triggering molecular changes involving various metabolic pathways. All these coordinating mechanisms are in their great majority, governed and led by the content and/or sensitivity of plant hormones, being ABA, gibberellins and ethylene the most committed. However, the effect of other endogenous and environmental factors should not be ruled out. The seed dry storage regulates seed dormancy by specific transcriptional programs that induce changes in signaling and seed hormones whose balances are modulated by other hormones such as jasmonates and salicylic acid. This Special Issue will explore advancements in the regulatory mechanisms underlying development and maturation, dormancy, after-ripening and germination of seeds.





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## Message from the Editor-in-Chief

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