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## Genetic Basis for Rice Seed Development and Germination

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### Message from the Guest Editors

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Deadline for manuscript  
submissions:

**closed (22 June 2022)**

Rice (*Oryza sativa* L.), a semi-aquatic annual grass plant, has been serving as the staple food for over half of the world's population. Rice seed comprises a maternal caryopsis coat, a diploid embryo, and a triploid endosperm. The embryo carries the life of the progenies, while endosperm is stuffed with nutrients such as starch, protein, lipids, and other trace substances, which could be utilized for the embryo germination or human consumption. So far, quite a few QTLs or genes controlling rice seed development or germination have been identified. Nevertheless, the genetic basis and regulatory mechanism of rice seed development remain largely unclear.

The aim of this Special Issue is to collect newest fundamental discoveries on the genetic basis and regulatory mechanism of rice seed development underpinning rice grain size, yield, quality, as well as seed germination, dormancy, and vigor. We hope the findings of this Special Issue will help to address the fundamental scientific questions of plant seed development and provide means to improve crop productivity. We welcome all kinds of submissions, including original research papers, reviews, and methods.



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# Special Issue



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## Message from the Editor-in-Chief

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