Special Issue

Genetic Basis for Rice Seed Development and Germination

Message from the Guest Editors

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.

Guest Editors

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Deadline for manuscript submissions

closed (22 June 2022)



Life

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Impact Factor 3.4
CiteScore 6.0
Indexed in PubMed



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Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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