

Special Issue

Seed Biology at the System Level

Message from the Guest Editors

Seed development in angiosperms represents a crucial sexual phase in the life cycle of flowering plants, including crop species. Seeds require the formation of three genetically distinct subcompartments, including the embryo and endosperm as products of fertilization, within a maternally derived seed coat capsule (or testa). This Special Issue will highlight current efforts to develop comprehensive systems-level understanding of seed biology, with insights into the transcriptional, proteomic, and metabolic networks that support seed development in model and crop plants. Studies included in this issue will apply integrated systems-level approaches, including genomics, transcriptomics, proteomics, metabolomics, and/or modeling to examine key processes in the formation of seeds, from fertilization to the onset of dormancy and/or germination, and provide foundational and comprehensive insights into seed biology.

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, and conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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