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Seed Biology at the System Level

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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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Special Issue



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Message from the Editor-in-Chief

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