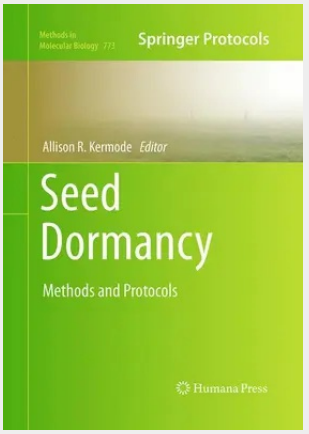
Kermode

Seed Dormancy

Methods and Protocols



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Understanding seed-related processes is of major social, environmental, and economic concern. The viability and vigor of seeds are the very basis for sustainable agriculture and forestry, and comprehending the molecular and cellular events underlying these processes will become increasingly important to many economical sectors and for species that provide the world's food supply. *Seed Dormancy: Methods and Protocols* covers analytical methods and approaches which have already lead to significant advances in the understanding of seed dormancy and germination. Chapters cover explanations of processes leading to the induction, maintenance, and termination of seed dormancy, the classification of different dormancy types, as well as an overview of protocols used for dormancy-termination of seeds of conifer species. This volume emphasizes methods essential for abscisic acid (ABA) analyses, including methods that have been important for receptor identification, analyses of ABA-catabolizing enzymes (the 8'-hydroxylases), and identification of novel signal transduction components, interacting partners, and/or response factors. The volume closes by addressing the development of new technologies, including spectroscopic methods (some of which allow for non-destructive sampling) as well as highly effective tissue-printing methods for seed dormancy research. Written in the successful *Methods in Molecular Biology*™ series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols, and notes on troubleshooting and avoiding known pitfalls.

Authoritative and easily accessible, *Seed Dormancy: Methods and Protocols* features detailed methods that willprove invaluable for both applied and fundamental seed research.

Includes cutting-edge methods and protocols Provides step-by-step detail essential for reproducible results Contains key notes and implementation advice from the experts Includes supplementary material: sn.pub/extras

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