Record Nr. UNINA9910830051403321 Seed development, dormancy and germination [[electronic resource] /] Titolo / edited by Kent Bradford and Hiroyuki Nongaki Pubbl/distr/stampa Oxford, : Blackwell, 2007 **ISBN** 1-280-74876-1 9786610748761 0-470-76407-4 0-470-98884-3 1-4051-7327-0 Descrizione fisica 1 online resource (390 p.) Collana Annual plant reviews ; ; v. 27 BradfordK. J (Kent J.) Altri autori (Persone) NongakiHiroyuki Disciplina 571.862 580.5 581.4/67 581.467 Soggetti Seeds - Development Seeds - Dormancy Germination Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Seed Development, Dormancy and Germination; Contents; List of Nota di contenuto Contributors: Preface: 1 Genetic control of seed development and seed mass; 1.1 Introduction; 1.2 Overview of seed development in angiosperms; 1.3 Genetic control of embryo development; 1.3.1 Central regulators of embryogenesis; 1.3.2 Genes involved in the morphogenesis phase of embryo development; 1.3.3 Regulators of the maturation phase of embryo development; 1.4 Genetic control of endosperm development; 1.4.1 Genes required for cereal endosperm development; 1.4.2 Genes that repress autonomous endosperm development

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Sommario/riassunto

The formation, dispersal and germination of seeds are crucial stages in the life cycles of gymnosperm and angiosperm plants. The unique properties of seeds, particularly their tolerance to desiccation, their mobility, and their ability to schedule their germination to coincide with times when environmental conditions are favorable to their survival as seedlings, have no doubt contributed significantly to the success of seed-bearing plants. Humans are also dependent upon seeds, which constitute the majority of the world's staple foods (e.g., cereals and legumes). Seeds are an excellent system f