Seed Dormancy Variation And Molecular Evolution Of Weedy Red Rice

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Seed Dormancy Variation And Molecular

Seed dormancy provides a mechanism for plants to delay germination until conditions are optimal for survival of the next generation. Dormancy release is regulated by a combination of

environmental and endogenous signals with both synergistic and competing effects. Molecular studies of dormancy have correlated changes in transcriptomes, proteomes, and hormone levels with dormancy states ranging ...

Molecular Aspects of Seed Dormancy | Annual Review of ...

Genetic and molecular control of seed dormancy uoM The dormancy trait is generally governed by many genes, and in a few cases these genes have been mapped to specific chromosome regions. Many genes that are dif- ferentially expressed between dormant and nondormant seeds have been isolated.

Genetic and molecular control of seed dormancy - ScienceDirect

Seed dormancy provides a mechanism for plants to delay

germination until conditions are optimal for survival of the next generation. Dormancy release is regulated by a combination of environmental and endogenous signals with both synergistic and competing effects. Molecular studies of dormancy have ...

Molecular aspects of seed dormancy - PubMed

Natural variation for seed dormancy in Arabidopsis is regulated by additive genetic and molecular pathways. Proceedings of the National Academy of Sciences, 107(9), 4264- 4269. 26 27.

Molecular Mechanism of Seed Dormancy - SlideShare

Seed Dormancy Variation And Molecular Seed dormancy provides a mechanism for plants to delay germination until conditions are optimal for survival of the next generation. Dormancy release is regulated by a combination of environmental and endogenous signals with both synergistic and competing effects.

Seed Dormancy Variation And Molecular Evolution Of Weedy ...

scattered knowledge on seed dormancy constraints in TLVs, highlighted seed dormancy regulation factors, and developed a conceptual approach for molecular genetic analysis of seed dormancy in TLVs. Several hormones, proteins, changes in chromatin structures, ribosomes, and quantitative trait loci (QTL) are involved in seed dormancy regulation.

Understanding Molecular Mechanisms of Seed Dormancy for ...

Molecular Aspects of Seed Dormancy ... variation Abstract tion until conditions are optimal for survival of the next generation. Dormancy release is regulated by a combination of environmental and endogenous signals with both synergistic and competing effects.

Molecular Aspects of Seed Dormancy*

A comparison of dormant and non-dormant seeds. (a,b) Freshly harvested seeds of the Arabidopsis accession Cape Verde Islands are dormant and do not germinate after 3 days imbibition in the light (a), whereas after-ripened seeds have lost dormancy and germinate under the same conditions (b). (c,d) The growth force of the radicle (indicated by the red arrow) does not overcome the strength of ...

Molecular mechanisms of seed dormancy - GRAEBER - 2012 ...

Seed dormancy has been shown to have a hereditary component in a number of species (Foley and Fennimore, 1998), many of which are crops or serious weeds (Table 8.1).Studies on the genetics of seed dormancy in economically important species have resulted in the development of new varieties that either

have, or lack, seed dormancy.

Seed Dormancy - an overview | ScienceDirect Topics
Seed dormancy allows seeds to overcome periods that are unfavourable for seedling established and is therefore important for plant ecology and agriculture.

(PDF) Seed Dormancy and Germination - ResearchGate
This integrative analysis of natural variation for seed dormancy reported here indicates that different genetic and molecular pathways control seed dormancy. Further investigations with the genotypes generated in this work will elucidate the molecular mechanisms underlying the different pathways.

Natural variation for seed dormancy in Arabidopsis is ...
Seed dormancy provides a strategy for flowering plants to survive adverse natural conditions. It is also an important

agronomic trait affecting grain yield, quality, and processing performance. We cloned a rice quantitative trait locus, Sdr4 , which contributes substantially to differences in seed dormancy between japonica (Nipponbare) and indica (Kasalath) cultivars.

Molecular cloning of Sdr4, a regulator involved in seed ...

Loss of seed viability, poor and delayed germination, and inaccessibility to high-quality seeds are key bottlenecks limiting all-year-round production of African traditional leafy vegetables (TLVs). Poor quality seeds are the result of several factors including harvest time, storage, and conservation conditions, and seed dormancy. While other factors can be easily controlled, breaking seed ...

Understanding Molecular Mechanisms of Seed Dormancy for ...

Natural variation for seed dormancy between the low dormant

accession Landsberg erecta and the highly dormant accession from the Cape Verde Islands (Cvi) has been exploited in a quantitative trait locus (QTL) analysis for seed dormancy, which yielded several DELAY OF GERMINATION (DOG) QTLs (Alonso-Blanco et al., 2003).

Molecular networks regulating Arabidopsis seed maturation ...

Molecular studies of dormancy have correlated changes in transcriptomes, proteomes, and hormone levels with dormancy states ranging from deep primary or secondary dormancy to varying degrees of ...

(PDF) Molecular Aspects of Seed Dormancy*

Seed dormancy is an important agronomic trait affecting grain yield and quality because of pre-harvest germination and is influenced by both environmental and genetic factors. However,

our knowledge of the factors controlling seed dormancy remains limited. To better reveal the molecular mechanism underlying this trait, a genome-wide association study was conducted in an indica-only population ...

Frontiers | Genome-Wide Association Study of Seed Dormancy ...

Seed dormancy has been studied extensively (Finch-Savage and Leubner-Metzger, 2006; Holdsworth et al., 2008), and recently, a quantitative trait locus analysis in combination with transcriptome analyses in Arabidopsis (Arabidopsis thaliana) has revealed that natural variation for seed dormancy is controlled by independent genetic and molecular pathways (Bentsink et al., 2010).

Natural Variation for Seed Longevity and Seed Dormancy Are ...

Introduction. Many genes and molecular mechanisms that can regulate seed dormancy and germination have been identified individually in controlled laboratory studies (Finch-Savage and Leubner-Metzger, 2006; Holdsworth et al., 2008; North et al., 2010; Graeber et al., 2012; Dekkers and Bentsink, 2015; Rodriguez et al., 2015).For good experimental reasons these studies minimize variation and ...

Seed dormancy cycling and the regulation of dormancy ...

Seed dormancy is an adaptive trait that does not allow the germination of an intact viable seed under favorable environmental conditions. Non-dormant seeds or seeds with low level of dormancy can germinate readily under optimal environmental conditions, and such a trait leads to preharvest sprouting, germination of seeds on the mother plant prior to harvest, which significantly reduces the ...