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germination by red and far-red light is one of the earliest documented phytochrome-mediated processes. Phytochrome is now known to be a small family of photoreceptors whose apoproteins are encoded by different genes. Phytochrome B (phyB) is present in dry seeds and affects germination of dark imbibed seeds but other phytochromes could also be involved. Phytochrome A (phyA) appears after several hours of imbibition and mediates very-low-fluence responses. PhyB

and other ...Phytochromes and seed germination | Seed Science Research ...The purpose of the research reported here is to establish the relationship between phytochrome and temperature upon the activation of germination in cucumber seeds. MATERIALS AND METHODS Cucumber (*Cucumis sativus* L., cv Pixie) seeds were used in all experiments. Phytochrome and Seed Germination - Plant Physiology Seed germination of many plant species is influenced by

light. Of the various photoreceptor systems, phytochrome plays an especially important role in seed germination. The existence of at least... (PDF) Phytochrome regulation of seed germination. Both tobacco 'Virginia Gold' and *Plantago hirtella* seed germinate on exposure to red light. During the first day or so after sowing, the response can be stopped by a following exposure to deep-red, indicating phytochrome action. However, the effects of successive

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processes in plants besides germination in light-sensitive seeds. These include photomorphogenesis (light-regulated developmental process) and flowering in a variety of plants. Phytochrome and Reversible Red-Far-red Control of Germination:Process of Seed Germination: 5 Steps (With Diagram)PHYBY276H-expressing plants exhibit chromophore-dependent constitutive photomorphogenesis, light-independent

phyBY276Hnuclear localization, constitutive activation of genes normally repressed in darkness, and light-insensitive seed germination. Light-Independent Phytochrome Signaling ... - Plant Cell The Induction of Seed Germination in *Arabidopsis thaliana* Is Regulated Principally by Phytochrome B and Secondarily by Phytochrome A. T. Shinomura, A. Nagatani, J. Chory, and M. Furuya. Advanced Research Laboratory, Hitachi Ltd.,

Hatoyama, Saitama, Japan 350-03 (T.S., M.F.). Author information Copyright and License information . The Induction of Seed Germination in *Arabidopsis thaliana* ... Phytochromes control many aspects of plant development. They regulate the germination of seeds (photoblasty), the synthesis of chlorophyll, the elongation of seedlings, the size, shape and number and movement of leaves and the timing of flowering in adult plants. Phytochromes are widely

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