

Phytochrome And Seed Germination Plant Physiology

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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 five phytochrome genes has led to the proposal that different members of the family have different roles in the photoregulation of seed germination.

[Phytochrome regulation of seed germination](#) | [Springer](#) [Link](#)

Phytochrome control of cucumber seed germination is temperature-dependent. A prolonged exposure to radiation from broad spectrum far red sources (Pfr/P = 0.05 to 0.07) prevents germination at temperatures below 20 C. Above 20 C there is no inhibition and it appears as if there is an escape from phytochrome control.

[Phytochrome and Seed Germination: VI. Phytochrome and ...](#)

The control of seed 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](#)

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(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 exposures to red

[PHYTOCHROME AND SEED GERMINATION](#)

For many plants, seed germination is repressed by the hormone abscisic acid (ABA) and stimulated by another hormone, gibberellin (GA). In *Arabidopsis*, the activation of phytochrome leads to decreased levels of ABA and increased levels of GA, releasing the repression and allowing the stimulation of seed germination.

[Light-Mediated Seed Germination: Connecting Phytochrome B ...](#)

There are several famous examples of phytochrome responses including seed germination in *Arabidopsis*. Is this plant responding in the very same way as lettuce? After a seed germinates, the hypocotyl lifts the cotyledons above the soil in some species (epigeous). This growth is rapid until the plant penetrates the soil and is exposed to light.

[Phytochrome - plant physiology](#)

Phytochrome is a regulatory pigment which controls many light-dependent development processes in plants besides germination in light-sensitive seeds. These include photo-morphogenesis (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 phyBY276H nuclear 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 expressed across many tissues and developmental stages.

[Phytochrome - Wikipedia](#)

Phytochrome in plants is a soluble protein pigment that carries out photomorphogenic growth. It is present almost in all eukaryotic plants and was first discovered by a scientist named Sterling Hendricks and Herry Borthwick in the year 1940-1960. A term phytochrome was also given by Warren Butler.

[Phytochrome in Plants - Definition, Features, Structure ...](#)

For example, the change in levels of phytochrome under red light and phytochrome under far red light allow plants to begin flowering, germinate, break dormancy, or senesce. Each plant species has a different photoperiod that dictates when each of these types of responses will occur depending upon the number of hours

[Phytochrome](#) | [Bartleby](#)

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[Phytochromes and seed germination](#)

Phytochrome is a pigment found in plants that allows the plants to detect of light. It is a crucial element to plant survival and is used to regulate flowering and to set the plant's circadian rhythm, among other things. [Maximum Yield](#) explains [Phytochrome \(Pr\)](#) Plants rely on light for their food and to ensure growth.

[What is Phytochrome \(Pr\)? - Definition from Maximum Yield](#)

The cryptogamic phytochromes identified to date typically show the structure common to seed plant phytochromes with a chromophore-bearing region, a hinge-like region, a PAS domain, and a histidine kinase-like domain at the C terminus.

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