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Phytochrome And Seed Germination Plant

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

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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.

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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

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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

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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
istoestablish the
relationship between
phytochrome and

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temperature upon the activation of germination in cucumber seeds.

MATERIALS

ANDMETHODS Cucumber (*Cucumis sativus* L., cv Pixie) seeds were used in all experiments.

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Seed germination of many plant species is influenced by light. Of the various

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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 |

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SpringerLink

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

For many plants, seed germination is

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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

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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

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is rapid until the plant penetrates the soil and is exposed to light.

Phytochrome - plant phys

There are some photoreceptors that are necessary for plant growth and development, including seed germination. For example, phytochrome B proteins, which are stable and found in green tissues (Quail, 1997) are able to

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regulate the hormonal signaling pathways of auxin and cytokinin (Tian et al., 2002, Fankhauser, 2002, Choi et al., 2005).

Phytochromes in the seeds are necessary for controlling seed germination, especially when the seeds are subjected to light.

Plant hormones and seed germination - ScienceDirect

PHYBY276H

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-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

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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:

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Process of Seed Germination: 5 Steps (With Diagram)

Phytochrome makes up about 0.2% of the total protein in a dark grown plant. And, there is about 50x more phytochrome in an etiolated plant than a green one. Pr is the form synthesized by the plant; only form

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Phytochrome B (phyB) predominantly triggers red/far-red-light-reversible seed germination, whereas phyA mediates distinct, very low fluence responses in red and far-red light^{24,25,26,27,28,29,30,31}. phyA- and phyB-dependent induction of germination are spatially separated in the endosperm and embryo³². phyE is required for

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germination in
continuous far-red
light³³.

**Phytochrome B and
REVEILLE1/2-mediated signalling
controls ...**

Phytochromes control many aspects of plant development. They regulate the germination of seeds (photoblasty), the synthesis of chlorophyll, the elongation of

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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

In the dark, phytochrome is in the Pr (inactive form) and the seed will not

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germinate; it will only germinate if exposed to light at the surface of the soil. Upon exposure to light, Pr is converted to Pfr and germination proceeds. Plants also use the phytochrome system to sense the change of season.

Plant Responses to Light | Biology I

The behaviors that the phytochrome system regulates include plant

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growth, seed germination, and photoperiodism (behaviors regulated by day length):
Phytochrome stimulates plant growth toward red light via the hormone cytokinin, which promotes cell division, and gibberellin, which promotes stem elongation.

**Plant Hormones and
Sensory Systems |**

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Biology 1520

Start studying
phytochrome. Learn
vocabulary, terms, and
more with flashcards,
games, and other
study tools. Search. ...
germinate make Pr
seed breaks through
surface of soil exposed
to red light ... if short
day plant kept in long
day conditions and one
leaf is masked for part
of day, will it flower? ...

phytochrome

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Flashcards | Quizlet

If seeds sense light using the phytochrome system, they will germinate. Plants regulate photoperiodism by measuring the Pfr/Pr ratio at dawn, which then stimulates physiological processes such as flowering, setting winter buds, and vegetative growth.

Plant Sensory Systems and

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Responses |

Boundless Biology

Germination of inhibited seed is promoted by red radiation and in turn is reversed by far-red radiation, indicative of control by phytochrome. In the Ace variety initial inhibition requires only a single short far-red exposure. Prolonged far-red irradiation extending over many hours is required for

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inhibition of Pteris
seeds. Physiology

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