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Phycomyces phototactic response to actinic blue light (about ×10). The giant sporangiophores of this fungus exhibit sensory responses to light, gravity, and the proximity of objects. The sensory transducing mechanism involves the modulation of chitin cell wall biosynthesis. Phycomyces in vitro chitin synthesis systems can be used to study the molecular mode of action of fungicides and insecticides. See page 905. [David Dennison, Dartmouth College, Hanover, New Hampshire 03755]