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*Phycomyces* phototactic response to actinic blue light (about x10). The giant sporangiophores of this fungus exhibit sensory responses to light, gravity, and the proximity of objects. The sensory transduction 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]