Transmission Changes of Leaves after Light Irradiation

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Plants use photoreceptors to detect light. Thus, every light colour triggers a unique response within a plant. Phytochrom, for example, is a photoreceptor which is sensitive to light in the red and far-red region of the visible spectrum. It allows the plant to regulate the germination of seeds or the synthesis of chlorophyll. In my project I aim to measure the photochemical response of plants in-vivo by exposing the leaves to different light colours and by measuring the change in light transmission, not only for that same light colour but also the possible effect on the light transmission for other wave lengths. This may help to determine the freshness of a leaf, for instance, by metering the manner of reaction.

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