

Title Control of fungal diseases with isothiocyanates
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Abstract

Purpose of the review: This review summarises recently published literature describing experiments in which isothiocyanates have been tested on mycelia growth and germination of propagules for different phytopathogenic fungi under *in solum*, *in vitro* and *in vivo* conditions.

Recent findings: It has been found that several isothiocyanates can control soil-borne phytopathogenic fungi as well as fungi that produce infections in fruits. Furthermore, experiments have shown that some of the most fungitoxic isothiocyanates can provide better control of fungi infections in fruits than commercial fungicides can, even in an advanced stage of development. Fruits treated with these compounds did not have any deleterious effects on fruit physiology or quality.

Directions for future research: Efforts must be directed at evaluating the possibility of using isothiocyanates (both naturally and artificially synthesised) as alternative treatments on a wide scale to control pre and postharvest losses of agricultural commodities.