



# Inhibitory effects of the carrot metabolites 6-methoxymellein and falcarindiol on development of the fungal leaf blight pathogen *Alternaria dauci*

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Auteur	Lecomte, Mickaël [1], Berruyer, Romain [2], Hamama, Latifa [3], Boedo, Cora [4], Hudhomme, Piéerrick [5], Bersihand, Stéphanie [6], Arul, Joseph [7], NGuyen, Guillaume [8], Gatto, Julia [9], Guilet, David [10], Richomme, Pascal [11], Simoneau, Philippe [12], Briard, Mathilde [13], Le Clerc, Valérie [14], Poupart, Pascal [15]
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Résumé en anglais	The in vitro effects of 6-MM and falcarindiol on the development of <i>Alternaria dauci</i> were analyzed. The results showed that <i>A. dauci</i> was significantly more susceptible to falcarindiol than to 6-MM. Experiments dealing with mixed solutions of 6-MM and falcarindiol indicated additive effects of the metabolites on growth inhibition. Permeabilization of the fungal plasma membrane was observed after falcarindiol treatment. In planta quantification of 6-MM/falcarindiol was performed on inoculated leaves of carrot genotypes. Significantly faster 6-MM production was observed in Bolero (partially resistant to <i>A. dauci</i> ) than in Presto (susceptible). The falcarindiol levels were significantly higher in Bolero than in Presto.
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## Liens

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