

عنوان مقاله:

Verticillium-toxins: Their Role in Pathogenesis

محل انتشار:

مجله علوم و فناوری کشاورزی، دوره 7، شماره 3 (سال: 1384)

تعداد صفحات اصل مقاله: 11

نویسنده:

خلاصه مقاله:

Bioassay results confirmed the role of low molecular weight phytotoxin in the pathogenesis of *Verticillium albo-atrum*. The metabolites separated from ۲۱-day-old culture filtrate by adsorption on the resin Amberlite XAD-۴, and further chromatographed on Bio-Gel P۲ polyacrylamide gel, induced chlorosis and necrosis on the leaflets of tomato and potato cultivars, similar to those caused by the fungus on diseased plants. Leaflets from tolerant cultivars were much less sensitive to the toxin(s) than those from the susceptible ones. In the presence of toxin(s) plant tissues and individual cells showed ion-leakage and cell death to an extent relating to the plants reaction to the fungus. The relative specificity observed during pathogenicity tests between potato (and tomato and their related isolates was shown to be related to the action of toxin(s).

کلمات کلیدی:

Pathogenesis, Toxins, *Verticillium*

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1816265>

