عنوان مقاله:

Study on some biological and morphological characteristics of Wilsonomyces carpophilus in West Azerbaijan

محل انتشار:

دوفصلنامه رستنیها, دوره 10, شماره 1 (سال: 1388)

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خلاصه مقاله:

Shot hole disease of stone fruit trees, caused by Wilsonomyces carpophilus (Lév.) Adaskaveg, Ogawa & Butler(= Stigmina carpophila (Lév.) M.B. Ellis and Coryneum beijerinckii Oud.) is a serious disease of Prunus species in West Azerbaijan province. The pathogen was obtained from infected leaves, fruits and twigs of Prunus orchards during spring and summer of ۲۰۰۷. Samples were cultured on PDA, MEA, WA (۲%) and APDA media after surface sterilization. Sixty isolates were recovered from Prunus orchards and studied. Based on morphological and physiological characters and growth optimal temperature, all isolates were identified as Wilsonomyces carpophilus. Isolates produced sporodochia bearing sympodial conidiophores and conidia with ۳-۵ cells (occasionally ۱-۹ cells), holoblastic, rhexolytic and ۲۰-۶۷.۵ × ۷.۵-۱۵ mm. Optimal growth was observed in ۲۱º C and pH ۶ and no growth was occurred below ۵º C or above ۳۰º C.

کلمات کلیدی:

Chlamydospore, survival, pathogenicity, Rhexolytic