

Title Resistance of mango fruits and seedling leaves to *Colletotrichum gloeosporioides*, causal pathogen of anthracnose

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Abstract

Anthracnose severity on mango fruits of five cultivars including Nam Dorkmai, Nang Klang Wan, Chok Anan, Khew, and Rad, naturally infected with *Colletotrichum gloeosporioides*, was assessed for 2 years. Khew was rather resistant whereas Nang Klang Wan was susceptible. Fruits of these five cultivars were also evaluated by inoculating with *C. gloeosporioides* at 48 h before and after harvest. In both periods, disease severity on the fruit was in line with cultivar susceptibility. Fruits inoculated 6 h after harvest showed lower disease severity than at 24 h. Seedling leaves starting from the unfolded leaf up to 15 days were tested for their susceptibility to *C. gloeosporioides* infection. Young leaves (5-7 days after unfolding) were susceptible, but resistant at mature stage (13 days after unfolding). Fruits of these cultivars were inoculated with *C. gloeosporioides* and disease severity evaluated at ripening stage. Seed was then separated from each infected fruit and grown to obtain a seedling. Young leaves of each seedling were inoculated and assessed for disease severity. Disease severity on the infected fruit and on leaves of the derived seedlings was not correlated.