## An overview on *Monilinia* pathogens the causal agent of brown rot disease of peach considering the pathogen populations from Turkey

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*Monilinia* genus includes pathogenic species causing brown rot of stone and pome fruits. The prominent species of the genus are *M. fructicola*, *M. laxa* and *M. fructigena* worldwide. Infections may occur on twigs, blossoms and/or fruits and result in significant loss in quality and yield, especially if environmental conditions favor development of the pathogen. Fruit lesions may cause mummification and mummified fruits could serve as an inoculum source for the following year. Because *M. fructicola* is a quarantine pathogen in EPPO A2 list, detection of this pathogen is important for quarantine efforts. *Monilinia fructicola* and the other *Monilinia* pathogen species have been reported from many different countries in the World. Brown rot disease has been recently observed as an important yield-limiting biotic constraint, especially in peach host, in Turkey. A large collection of *Monilinia* spp. isolates was obtained from different geographic regions of Turkey. These populations have been characterized in many aspects and compared with the other *Monilinia* pathogens from the other countries. These pathogens will be introduced and the very recent results from ongoing project will be discussed.

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