

Circadian periodicity studies of some important fungal spores over guava orchard in Nashik Maharashtra

H.P. Shinde

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ABSTRACT : Circadian periodicity studies of the fungal spore types like *Colletotrichum*, *Fusarium* and *Albugo* were conducted during the aerobiological sampling by using volumetric Tilak air sampler from 1st January 2013 to 31st December 2014. In the present investigation, fungal spore trapping was done by operating continuously Tilak air sampler (Tilak and Kulkarni; 1970). During this period; consecutive meteorological parameters such as temperature, relative humidity and rainfall were monitored. Circadian periodicity studies of the fungal spore types like *Colletotrichum*, *Fusarium* and *Albugo* in the present investigation clearly indicated that these spore types belong to nightspora. The maximum concentration of *Colletotrichum* and *Albugo* was recorded in the months of July and August; whereas *Fusarium* was recorded maximum in the month of June. There exist some rhythms in fungal components of the airspora and these are correlated to the periodicity of environmental factors.

Key Words : Circadian periodicity, guava, Tilak air sampler.