

Distribution of aeromycoflora in the indoor and outdoor environment of Barpeta town of Assam, India

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The distribution of aeromycoflora in the indoor and outdoor environment is closely related with the climatic conditions like, temperature, rainfall, relative humidity as well as the nature of the mycoflora and location. The aeromycological survey was conducted in the indoor and outdoor environment of Barpeta town of Assam. The field experiments were carried out to study the occurrence of indoor and outdoor aeromycoflora for three months Jun-Aug, 2018. The experimental results showed that a total of 525 outdoor air spores (including pollen grains) and 242 indoor air spores were found in three months. Highest number of air spores were recorded in the month of Jun (190/88) and followed by July (178/82) and August (157/72) in both outdoor indoor environment respectively. The most dominant outdoor air spores were the species of the genus *Aspergillus* (56) *Rhizopus* (51) *Mucor* (45), *Fusarium* (43), whereas, in case of indoor spore is *Rhizopus* (38), and followed by *Aspergillus* (32), *Mucor* (31), and other species were found less frequently. The air quality of both indoor and outdoor environment is very important issue, because it is related to the fungal contamination of our foodstuff and various skin and respiratory problems.

Key words: Aeromycoflora, contamination, cosmopolitan incidence, environment, pathogenic
