

# Prevalence of Fungal Spore During Kharif Season Over the Groundnut Field from Ausa District Latur

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**Abstract:** *In the present investigation spore catching was done by using Tilak's continuous air sampler and Petri Plate exposure Method. Air sampler is instrument used for sampling of air or air monitoring. Varieties of such samplers with variable efficiency are available and selected as per requirement and components of aerospora. In present investigation air monitoring over groundnut crop was carried out by Volumetric Continuous Tilak Air Sampler. It is being used extensively for qualitative and quantitative analysis of the microbial content over groundnut at Ausa, The present investigation deals with the diversity of fungal spores in Groundnut field. The aerobiological investigation carried out by using Tilak air sampler to determine the concentration of airspora over Groundnut field in Ausa region. The period of investigation was carried out from June 2018 to Oct 2018.*

**Keywords:** Groundnut, Tilak air sampler, fungal spores

## REFERENCES

- [1]. Khedkar, S.A. 2005. Survey of biological aerosol of Kada, Beed. Ph.D. Thesis, Dr.B.A.M.U. Aurangabad.
- [2]. Khot, P.B. 1985. Taxonomy of some generation of fungi and Airspora over some fields of Maharashtra. Ph.D. Thesis, Marathwada University, Aurangabad.
- [3]. Klabusching A, Goety F, Horak S, Jaeger A, Machaler C, Popow F, Haschke and Turek RS. 1981. Influence of aerobiology and weather on symptoms in children with asthma. *Respiration* 42(1): 52-60.
- [4]. Kokane, R.S. 2008. Aerobiological and Phytophysiological studies in Grape (*Vitis vinifera* L.) var. THOMPSON seedless. Ph.D. Thesis, Bharati Vidyapeeth, Pune.
- [5]. Kolte, S. J. 1985. Diseases of annual edible oilseed crops. Vol. III CRC Pub. Florida 154 pp.
- [6]. Kramer, C.L., S.M. Pady, C.T. Rogerson, and Ouye I.G. 1959. Kansas aeromycology-II, Material, Methods and general results. *Trans. Kansas Acad. Sci.* 62: 184-199.
- [7]. Kshirsagar, J. J. 2006. Aerobiological study over the sunflower fields. Ph.D. Thesis, BAMU, Aurangabad.
- [8]. Kulkarni D. S 2017, www.rjlbps.com Life Science Informatics Publications Page No.212 Original Research Article DOI - 10.26479/2017.0205.18 preliminary study of airborne microbiota in some areas of Amravati city
- [9]. Kulkarni, R.L. 1971. Studies in airspora over some fields at Aurangabad Ph.D. Thesis, Marathwada University, Aurangabad
- [10]. Kumar R 1986. A two year study of aeromycospores of Dehra Dun, India. *J. Mycol. PL. Pathol.* 14(3): 260-265.
- [11]. Kurkela (1997). The number of Cladosporium conidia in the air in different weather conditions. *Grana.* 36: 54-61.
- [12]. Lakhe, D.G. 1980. Airspora studies over some fields. Ph.D. Thesis, Marathwada University, Aurangabad.
- [13]. Li and Kendrick (1995) A year-round comparison of fungal spores in indoor and outdoor air. *Mycologia* 87(2): 190-195.
- [14]. Lohare, S. D. 2002. Studies in airspora over Soyabean and vegetable fields at Udgir. Ph. D.
- [15]. Lokhande, N.S. 2002. Atmospheric concentration of bioaerosols over some fields. Ph.D. Thesis, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. M. Phil. Dissertations. Dr. B A M U, Aurangabad .

- [17]. Lukezic, F.L. and W.J. Kaiser, 1966. Aerobiology of fusarium roseum'Gibbosum' associated with crown rot of boxed Bananas. APhytopath. 56:545.
- [18]. Lyon et. al. (1984),. Variation of air spora in the atmosphere due to weather conditions. Grana. 23(3): 177-181.
- [19]. M. F. Yassin; S. Almouqatea (2010) Assessment of airborne bacteria and fungi in an indoor and outdoor environment ISSN: 1735-1472 IRSEN, CEERS, IAU.
- [20]. Mahajan M.C.1995.Studies in extramural and intramural aeromicrobiota at Faizpur.Ph.D. Thesis, Dr. BAMU, Aurangabad.
- [21]. Malabade, H.S. 1990. Aero mycological studies at Chalisgaon Ph.D. Thesis, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- [22]. Mali, N.S. 1998. Studies in airspora at Solapur, Ph.D. Thesis, SwamiRamanand Teerth Marathwada University, Nanded.
- [23]. Mali, V. P. 2002. Studies in aerobiology over some crop fields. Ph.D.Thesis, Dr. Babasaheb Ambedkar Marathwada University,Aurangabad.
- [24]. Mallaiah, K.V. and A.S. Rao, 1980. Airspora of groundnut field. Proc Indian Natn. Sci. Plant Science. 89:269-281.
- [25]. Mane, D.A. 1978. Studies in airspora over some fields. Ph.D. Thesis,Marathwada University, Aurangabad.
- [26]. Mangala, P. Prabhudesai, K. G. Hiremath and Bhat D.J. 2006. Pollenand fungal spora of Miramar Beach area - Goa. Indian J. Aerobiol,Vol. 19, No. 1,pp 37-41.
- [27]. Manjusha,R.S.(2015)Aerobiological Studies in some indoor and outdoor environment in Patan, Dist-Satara, (M.S) a thesis submitted to savitribai phule Pune university, Pune.