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Incidence of aeromycoflora over the groundnut field from Latur district

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Groundnut or peanut (*Arachis hypogaea* Linn.) is an important oil seed crop in many tropical and warm temperature regions of the world. Oil seeds account for one ninth of the total agricultural production in India. The vegetable oil is extensively used for cooking purposes and in the manufacturing of soap and other by product. The residual cake is rich in nitrogen and is used as cattle feed or as manure for crop plants. During present investigation more emphasis has been given on the fungal components of air spora. Such aerobiological study is useful for obtaining an efficient forecasting system and preventing ground nut crop from the attack of disastrous airborne disease. The importance of studies of air spora over the groundnut crop field is to understand the dissemination and spread of airborne microbial components including pathogen in the atmosphere. The present investigation was carried out in two groundnut sampling fields i.e., Wagholi and AUSA. The present investigation was carried out to calculate the concentration of air borne pathogen causing groundnut diseases and to study the close relationship between the spore concentration, disease incidence, meteorological factors and growth stages of the groundnut crop. In present investigation air monitoring survey is carried out by using air sampler. Supporting to this work air sampler petri plates exposure method was used for 15 days regular interval. Two diseases are common over groundnut nut tikka leaf spot disease caused by *Cercospora arachidicola* Hori and *Cercospora personatum*. During the present investigation the major fungal group Deuteromycetes, Basidiomycetes and Ascomycetes have been found.

Biography

Chate D B is presently working as the Head and as an Assistant Professor of Botany. He has 22 years of teaching and research experience. He has published 14 research papers in national and international journals. He has also presented and attended many national and international conferences. He is working as a reviewer of some national and international journals. He has worked as the Board Member of the College and University Development. He is a recipient of the Rajashri Shahu Maharaj National Teacher Award. He is also working as the General Secretary, Teachers Association, SRT-MUCTA, Swami Ramanand Teerth Marathwada University, Nanded. He is a life member of *Bionano Frontiers Journal* and Indian Aerobiological Society. He is also working as an Editor-in-Chief of *Vision Research Journal*.

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