



Higher and Technical Education Department, Government of Maharashtra

Government Science College, Gadchiroli

in association with

**The Indian Science Congress Association,
Amravati Chapter**

Organizing

**NATIONAL SCIENTIFIC CONFERENCE ON
MULTIDISCIPLINARY RESEARCH**

2022

APRIL 07- 08

Focal Theme: Sustainable Development with Women Empowerment

BOOK OF ABSTRACTS

NSCMR 2022

07th- 08th April 2022



"Inspiring Young Researchers for Tomorrow's Science"



**Women
Empowerment**



**Sustainable
Development**



NATIONAL SCIENTIFIC CONFERENCE ON MULTIDISCIPLINARY RESEARCH (NSCMR – 2022)

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Hosted by

Government Science College, Gadchiroli

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Poster Presentation PP-04

Seasonal variations in airborne Cladosporium and Alternaria spp. Conidia in Nagbhid (MS).**Aruna N. Shende¹, Anil N. Korpenwar² and R. R Dahegaonkar³**¹D.K.M. Mahavidyalaya, Kurkheda.²RMG Arts and Science College, Nagbhid.³Dr. Ambedkar College of Arts, comm., & Science, Chandrapur.Email - shendearuna3@gmail.com

The airborne fungal spores Cladosporium and Alternaria known as most allergenic spores have been counted by using a volumetric Tilak Air Sampler at three different sampling sites during two consecutive year. The Daily, monthly and annual variations in spores/m³ of Cladosporium and Alternaria were recorded. During the study period, a total of 12,231 spores/m³ belonging to Cladosporium and Alternaria genera were recorded. Relationship between airborne fungal conidia presence and meteorological parameters and seasonal variations have been statistically investigated. Thus, a Friedmann test was performed followed by a Pearson Correlation Analysis and allergenic survey of poultry workers, visitors and peoples from nearby locality was taken during study period. The effect of rainfall, temperature and wind velocity on conidia of Cladosporium and Alternaria numbers were non-significant according to sites and months ($p > 0.06$), but the effect of relative humidity on the conidia of Cladosporium and Alternaria numbers were significant ($p < 0.02$). Airborne conidia concentrations reached to their highest levels in May month.

Keywords: Seasonal variation, airborne fungal spores, conidia, allergens, meteorological parameters.

Shende, A. N., Korpenwar, A. N. Dahegaonkar R. R. (2022) Seasonal Variations in Airborne Cladosporium and Alternaria spp. Conidia in Nagbhid (MS). *In book of abstracts*, National Scientific Conference on Multidisciplinary Research organized by Government Science College, Gadchiroli in association with Indian Science Congress Association Amaravati Chapter on 7th and 8th April 2022 p. 56



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in association with

The Indian Science Congress Association, Amravati Chapter

organized Two Days

"National Scientific Conference on Multidisciplinary Research (NSCMR 2022)"

Focal Theme: Sustainable Development with Women Empowerment

Certificate

This is to certify that Dr./Mr./Mrs. Aruna Nilesh Shende of
D. K. Mahila Mahavidyalaya Kurkheda has
participated/ presented a poster/ delivered an oral presentation in the Two Day
"National Scientific Conference on Multidisciplinary Research (NSCMR 2022)"
held at Government Science College, Gadchiroli on 07th and 08th April 2022.

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Convener



Women
Empowerment



Sustainable
Development

