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Study of the airborne fungal spores in Rosetta, Egypt

In this study, fungal spores in the atmosphere of Rosetta, Egypt were studied for one year (August 2015 to July 2016) using a Hirst type volumetric pollen trap. An annual spore index equals to 8023 was recorded during the studied period. The maximum records were in August 2015, May and July 2016. *Alternaria*, *Cladosporium*, *Tilletia*, *Stemphylium*, *Chaetomium*, *Aspergillus*/*Penicillium*-type, *Drechslera*-type, *Mycosphaerella* and *Epicoccum* represent the main spore producers organized in relation to their abundance. A total of nine fungal spore genera with minimum 10-day mean equal to or greater than 0.1 spores/m³ of air are involved to construct an approximate spore calendar. This aero palynological study was compared with others elsewhere in the world. Correlation analysis between spore counts and different meteorological parameters (temperature, rainfall and relative humidity) as well as number of allergic patients were studied. It was obvious that most of the recorded fungal spores have allergenic properties.

Biography

Wafaa K Taia, graduated from Alexandria university, Egypt and got her Ph.D. from Reading university, England. Her major field is Botany, Angiosperm taxonomy, Eco taxonomy and biodiversity. Her main interest is plant taxonomy, allergy, and the effect of environment on the plants. She attained a lot of conferences inside and outside Egypt and has many publications in the above-mentioned items. She is teaching plant taxonomy, Speciation, Angiosperm phylogeny, Palynology, Flora, General Botany and post graduate courses in Alexandria University, Faculty of Science. She had valuable work on the effect of habitats, environmental conditions and sea elevation on the plants. She did many works on allergy, air pollution and causes of environmental disorders. She attained lot off M.Sc. and Ph.D. Juries in Egypt, Saudi Arabia and Spain (MALAGA), as an examiner of the thesis. She has reviewed many scientific papers in her field of interest She published book entitled 'Biodiversity and plant taxonomy: Definition, History and Classification. Lambert Academic Publishing (2017).

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