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Study of the airborne pollen grains in Rosetta, Egypt

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An aero palynological study was carried out in the atmosphere of Rosetta city, Egypt during a period of one year from August 2015 until July 2016, using a Hirst type volumetric pollen trap. An annual pollen index of 1991 grains was obtained with the highest pollen records from February till May. The main pollen taxain abundance order are Poaceae, Arecaceae, Chenopodiaceae/Amaranthaceae complex, Casuarina, Cupressaceae, Urtica, Pinus, Myrtaceae. A total of eight pollen types with minimum 10-day mean equal to or greater than 0.1 pollen grains/m³ of air are involved to construct an approximate pollen calendar. The data obtained in this work was compared with others elsewhere in the world. Correlation effects between pollen counts and different meteorological parameters (temperature, rainfall and relative humidity) as well as number of allergic patients were investigated. Most of the recorded pollen grains are of allergenic effects.

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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