

THE PALYNOMORPHS DISPERSION IN ELBASAN CITY OF SOLANACEAE FAMILY, DURING NEW HOLOCENE PERIOD.

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Abstract

Paleopalynological data reported in this study, obtained in depositions of last XX centuries (last historic period of New Holocene, last Quaternary), from some stations of Elbasan city, one of the important and ancient town situated in the central Albania. Elbasan city is positioning in the center of Albania. It is one of megalopolis of Albania, with a population of around 130,000 and an area of 1,290 km². It lies down along Shkumbini River in the Elbasani Region at elevation around 150 m above sea level. Many biological studies have been carried on in Elbasani town during last two decades. This study provides some palynological data about the palynomorphs dispersion of Solanaceae family during New Holocene period, in the area where is placed Elbasan city. The goal of this paper is to present the correlation between the depth and dispersion for the Solanaceae family palynomorphs on different periods of time. Therefore, we collected exactly 16 sediment samples in every station, each 25 cm from the surface up to 4 m depth, through a dry drilling sonde, 110 mm and 130 mm diameter, during 2010. The age is determined based on the age of archeological objects nearby; the depth 4 m is considered to be about 2000 years. Palynological data for this family is presented for the first time in the Albania's palynological literature, and any similar paleopalynological studies have been carried out before, from foreign or local authors. Sample treatment also microscopic examinations were performed at the “A. Xhuvani” University Elbasan, Tirana University and “La Sapienza”, University Rome. Observations, counting and photos of palynomorphs it was carried on using light microscopes, magnification up to 1000x. Watching to our view, some interesting data were found, showing distinctly the correlation between the depth and number of spores and pollens for this family take review.

Keywords: *Palynological, New Holocene - Quaternary, palynomorphs, spores, pollen, Elbasan city, Solanaceae family.*