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By

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**Palynological Study of *Euphorbia* Subgenus *Chamaesyce* from Turkey**

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Abstract:

In this study, we examined the pollen morphology of four species of *Euphorbia* subgenus *Chamaesyce* which are distributed in different parts of Turkey. These taxa were considered as a separate genus within the family Euphorbiaceae, but the genus was sunk within the genus *Euphorbia* due to recent molecular studies. Nonetheless, many significant questions of *Euphorbia* systematics and evolution persist. Pollen morphology has traditionally been used as a taxonomic character in almost every group of seed plants and it provides a record central to addressing those questions. The pollen samples of the species were prepared according to Wodehouse method and examined with a light microscope. The differences among the pollen of the species are expressed in size and morphology. Comparative table and the microphotographs are presented.