COMPARATIVE CYPSELAR FEATURES OF TWO SPECIES OF TAGETES (TAGETEAE-ASTERACEAE) AND THEIR TAXONOMIC SIGNIFICANCE

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Abstract: Morphological and anatomical studies of cypselas in Tagetes lucida L. and Tagetes tenuifolia L. have been carried out in details with the help of light microscope. Some morphological features like cypsela surface hairs, carpopodium, detachment area, pappus bristles have potential value for characterization. Anatomically, phytomelanin layer is present in the mesocarpic region and which is continuous in case of Tagetes tenuifolia and discontinuous in case of Tagetes lucida. In the cypsela of Tagetes lucida, testa and endosperm layers are unisierately arranged, whereas in Tagetes tenuifolia, testal layer is uniseriately arranged but endosperm layer is biseriately arranged. Based on the above mention morpho - anatomical features, an artificial key to the studied taxa has been constructed.

Keywords: Diacritical features; tageteeae; asteraceae

REFERENCES


