

## ABSTRACT

The present research work was carried out for anatomical features of different species belonging to family Moraceae. Total 15 species *Ficus religiosa* L., *Ficus banglenses* L., *Ficus carica* L., *Ficus deltoidea* Jack., *Morus alba* L., *Morus nigra* L., *Ficus triangularis* L., *Ficus elastica* Roxb. Ex Hornem., *Artocarpus heterophyllus* J. R. Forst., *Ficus nerifolia* Sm., *Ficus banjamina* L., *Ficus elastica* Roxb. Ex hornem., (verigated leaves) *Ficus virens* Aiton., *Ficus macrophylla* Roxb. were collected. On abaxial surface of leaf in *Ficus triangularis*, *Artocarpus heterophyllus*, *Ficus religiosa*, *Ficus elastica*, *Ficus banjamina*, *Morus nigra* stomata were observed while on adaxial surface stomata were present in *Ficus macrophylla*, *Ficus deltoidea*, *Ficus virens*. Different shapes of trichomes were present in *Morus alba*, *Morus nigra*, *Ficus banglenses*, *Ficus elastica* (verigated leaves). In some species stomata are present only on the adaxial e.g. *Ficus macrophylla*, *Ficus banglenses* and *Ficus deltoidea*, which is an adaptation of this family to survive in various ecological zones. In petiole of *Ficus banjamina* larger length of collenchyma cells ( $24.2 \pm 3.00 \mu\text{m}$ ) and width ( $15.4 \pm 4.45 \mu\text{m}$ ) was observed. While smaller length of collenchyma cells ( $6.23 \pm 2.32 \mu\text{m}$ ) and width ( $12.3 \pm 3.24 \mu\text{m}$ ) were observed in *Ficus deltoidea*. The larger pith was observed in *Morus nigra* than other species. In *Ficus banjamina* the smaller length of metaxylem cell was  $4.33 \pm 2.02 \mu\text{m}$  and width  $8.46 \pm 1.42 \mu\text{m}$ . The smaller length of protoxylem cell is  $14.7 \pm 0.39 \mu\text{m}$  and width is  $15.4 \pm 4.45 \mu\text{m}$  was observed in *Ficus banjamina*. Our results may contribute to the classification of species and the species diagnosis for the plantations in various environments for their better adaptation.