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(الآية ٣٢ - سورة البقرة)



Cairo University
Faculty of Science
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Systematical Studies of the Species of the Family Malvaceae in Egypt

Thesis

Submitted to the Faculty of Science,
Cairo University for the degree of Ph. D.

By

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2000

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Abstract

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Title of the thesis:

Systematical Studies of the Species of the Family Malvaceae in Egypt

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The systematic revision of the indigenous taxa of *Malvaceae* in Egypt revealed the presence of 23 species (cultivated taxa are not included) belonging to 11 genera assigned to four tribes; among these *Malvella sherardiana* is a new record to the flora of Egypt. Characters of systematic values are those of fruits, flowers and bracteoles (if present).

A key for the genera of the family and keys for the species are provided. For each species type, distribution (local and global), selected specimens, illustrations of different parts and distribution map in Egypt are provided.

Anatomy of petiole; trichome types, pollen grains (shape, size), seeds (shape, size, colour as well as the outer epidermal cell patterns) were studied using a light and scanning electron microscopes to evaluate their taxonomic values.

Key words: *Malvaceae*, Anatomy, seed characters, pollen grains.

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This thesis has not been submitted for a degree at this or any other University, and is the original work of the writer.

Sheriffa Arappa

*This work is dedicated with homage to my
parents, my husband and my children.*

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