

Macro and Micromorphological Studies on Seven Species of *Heliotropium* L. (Boraginaceae Juss.) in South West of Saudi Arabia

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Abstract

Genus *Heliotropium* L. (Heliotropiaceae) in south west of Saudi Arabia has been studied; seven species of *H. arbalaense* Fresen., *H. longiflorum* (D.C.) Jauber & Spach, *H. petrocarpum* Hockst & Steud., *H. strigosum* Willd., *H. zeylanicum* Lam., *H. jizanense* Al-Turki and *H. lasiocarpum* Fisch were collected, recognized, typed and nomenclatured. The most valuable characters were those of macro and distinct micromorphological data such as stomata, hairs, pollen grains and stem anatomy. Light microscopy has been used in these studies. From the obtained results, trichomes and pollen grains data in addition to stem anatomy indicated good taxonomic tools to differentiate between species of this genus. Different traditional measurements were strikingly also helpful for the discrimination of species. *H. longiflorum* was characterized by distinctive data such as prominent anatomical information, P/E (1.8 μ m) in addition to presence of spindle hair which in turn can be separated as a taxonomic level. Also, the results revealed a complete affinity between the two species of *H. jizanense* and *H. lasiocarpum*. An artificial key is provided for the differentiation between the studied species.

Keywords

Heliotropium L., Leaf Venation, Stomata, Trichomes, Pollen Grains, Stem Anatomy

1. Introduction

Heliotropium L., related to Heliotropiaceae Schrad., which was included in Boraginaceae Juss. It considered po-

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Teucrium Species: Biology and Applications Milan Stanković, 2020-12-02 Teucrium species are an interesting object of research in the various aspects of science with multiple applications. With more than 300 species, Teucrium is one of the largest and well distributed genera of the Lamiaceae family. Known medicinal Teucrium species have a long traditional use as well as different potential applications in pharmacy, food and beverage industry. Teucrium species are very rich in a variety of secondary metabolites with significant biological activities. Based on that, the book contains 15 chapters which discuss recent advances in exploring the unique features of Teucrium species including morphology, systematics, taxonomy, biogeography, ethnobotany, phytochemistry, biological activity such as genotoxic, antioxidant, antibacterial, antifungal, antiviral, anticancer, anticholinesterase, antidiabetic, and anti-inflammatory activity of secondary metabolites, as well as applications including current challenges and further perspectives. Some medicinal Teucrium species in excessive use can cause certain consequences. This phenomenon and precaution is also described. Whilst this book is primarily aimed at scientists, researchers, beginners in the investigations of Teucrium species, graduate and post graduate students in biology, botany, biotechnology, agriculture, and pharmacy, as well as science enthusiasts and practitioners involved in medicinal plants applications. The book provides complete Teucrium species list, color photographs of selected Teucrium species on natural habitats, as well as up to date bibliography related to Teucrium genus. **The Flavonoids Advances in Research Since 1986** J.B.

Harborne, 2017-10-19 Flavonoids are a group of natural products isolated from a wide variety of plants and are responsible for much of the coloring found in vascular plants. They exhibit a wide range of biological activities and are of particular interest as potential anti-cancer agents, insect antifeedants, and as natural insecticides. **The Flavonoids Advances in Research Since 1986** is a self-contained account of this important group of plant products. **The Kew Record of**

Taxonomic Literature Relating to Vascular Plants for ..., 1999 **The Kew Record of Taxonomic Literature**, 2005

Herbal Formulations, Phytochemistry and Pharmacognosy Mital Kaneria, Kalpna Rakholiya, 2024-06-17 Herbal Formulations, Phytochemistry and Pharmacognosy combines the principles of natural medicines with refined modern technology to illustrate and promote the development of more ecofriendly, better effective, easily available, and affordable drug discovery processes. The book provides classical and applied knowledge in drug discovery to broadly cover related aspects like herbal formulations, phytochemistry, and pharmacogenetic research. The drug discovery process accelerates the design of new leads for various life-threatening diseases and natural medicines and has been an integral part of drug discovery, playing a major role as a template and offering holistic approaches for the management of various diseases. Explores natural products as potential source of novel drugs with new modes of action. Covers recent developments reporting up to date methods. Combines principles of natural medicines with refined modern technology. **Bibliography of Agriculture**, 1990 **Proceedings of the Indian Science Congress** Indian Science Congress Association, 1995

Journal of Plant Anatomy and Morphology, 1993 **Index Medicus**, 2004 Vols for 1963 include as pt 2 of the Jan issue
 Medical subject headings **Pakistan Journal of Botany**, 1994 *Revue Roumaine de Biologie*, 2000 **Interpretation of Micromorphological Features of Soils and Regoliths** Georges Stoops, Vera Marcelino, Florias Mees, 2018-09-17
 Interpretation of Micromorphological Features of Soils and Regoliths Second Edition provides researchers and students with a tool for interpreting features observed in soil thin sections and through submicroscopic studies After an introduction and general overview micromorphological aspects of regoliths e g saprolites transported materials are highlighted followed by a systematic and coherent discussion of the micromorphological expression of various pedogenic processes The book is written by an international team of experts in the field using a uniform set of concepts and terminology making it a valuable interdisciplinary reference work The following topics are treated freeze thaw features redoximorphic features calcareous and gypsiferous formations textural features spodic and oxic horizons volcanic materials organic matter surface horizons laterites surface crusts salt minerals biogenic and pedogenic siliceous materials other authigenic silicates phosphates sulphidic and sulphuric materials and features related to faunal activity The last chapters address anthropogenic features archaeological materials and palaeosoils Updates the first exhaustive publication on interpretation of micromorphological features with some new chapters and with a larger number of additional references Covers related topics making micromorphology more attractive and accessible for geomorphologists archaeologists and quaternary geologists Includes thematic treatment of a range of soil micromorphology fields and broadens its applications Features input from a multi disciplinary team ensuring thorough coverage of topics related to soil science archaeology and geomorphology **Opuntia spp.: Chemistry, Bioactivity and Industrial Applications** Mohamed Fawzy Ramadan, Tamer E. Moussa Ayoub, Sascha Rohn, 2021-09-27 The Opuntia fruits commonly known as cactus pears or prickly pears have been suggested by the Food and Agriculture Organization to be a promising and strategic crop in regions suffering from lack of water In Mexico India South Africa and the Mediterranean the Opuntia fruits have become popular due to their nutritive value and health promoting benefits including antioxidant antiulcerogenic and antiatherogenic traits and protective effects against LDL oxidation Additionally readily absorbable sugars high vitamin C and mineral content and a pleasant flavour make Opuntia tailor made for novel foods Due to their ecological advantages high functional value and health related traits Opuntia fruits can be highly exploited in different food processing applications For instance Opuntia cactus fruits are used for the preparation of juices and marmalades Opuntia cactus plants are used to feed animals in African and Latin American countries Peruvian farmers cultivate Opuntia cactus for growing the cochineal *Dactylopius coccus* insect and producing the natural dye carmine and the commercial production of food and non food products from Opuntia has been established in Mexico USA and several Mediterranean countries Opuntia spp Chemistry Bioactivity and Industrial Applications creates a multidisciplinary forum of discussion on Opuntia cactus with special emphasis on its horticulture post harvest marketability chemistry functionality

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Brittonia ,2006 *Cumulated Index Medicus* ,1972 **Bibliography of Agriculture with Subject Index** ,1993
Nova Hedwigia ,1959 Zeitschrift f r Kryptogamenkunde **Orchidaceae** William Louis Stern,2014 A comprehensive discussion of the vegetative anatomy of orchids describing the structure and relationships among the cells and tissues of leaves stems and roots **Archaeological Soil and Sediment Micromorphology** Cristiano Nicosia,Georges Stoops,2017-10-23 Archaeological Soil and Sediment Micromorphology goes beyond a mere review of current literature and features the most up to date contributions from numerous scientists working in the field The book represents a groundbreaking and comprehensive resource covering the plethora of applications of micromorphology in archaeology Archaeological Soil and Sediment Micromorphology offers researchers students and professionals a systematic tool for the interpretation of thin sections of archaeological contexts This important resource is also designed to help stimulate the use of micromorphology in archaeology outside Europe where the technique is less frequently employed Moreover the authors hope to strengthen the proper application of soil micromorphology in archaeology by illustrating its possibilities and referring in several cases to more specialized publications for instance in the field of plant remains pottery and phytoliths Written for anyone interested in the topic this important text offers Contributions from most of the world s leading authorities on soil micromorphology A series of chapters on the major topics selected among the most recurrent in literature about archaeological soil micromorphology Systematic descriptions of all important micromorphological features Special analytical tools employed on thin sections such as SEM EDS image analysis fluorescence microscopy mass spectrometry among others Numerous cross references 400 illustrated full colour plates The resource provides the most current and essential information for archaeologists geoarchaeologists soil scientists and sedimentologists Comprehensive in scope Archaeological Soil and Sediment Micromorphology offers professionals and students a much needed tool for the interpretation of thin sections of archaeological contexts

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