

A Revision of the Tribal  
and Subtribal Limits  
of the Heliantheae (Asteraceae)

*Harold Robinson*



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1981

# Revision Of The Tribal And Subtribal Limits Of The Heliantheae

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## **Revision Of The Tribal And Subtribal Limits Of The Heliantheae:**

**A Revision of the Tribal and Subtribal Limits of the Heliantheae (asteraceae).** ,1981      **A Revision of the Tribal and Subtribal Limits of the Heliantheae (asteraceae).** ,1981      *A Revision of the Tribal and Subtribal Limits of the Heliantheae (Asteraceae)* Harold Ernest Robinson,1981 The tribe Heliantheae is expanded to include the genera previously placed in the tribe Helenieae and many genera from the Senecioneae Thirty five subtribes are recognized and described and the more than 265 genera are listed with known validly described synonyms A theoretical key to subtribes is provided Various structural and chemical characteristics are reviewed and emphasis is given to resin duct patterns presence of fiber sheaths in disk corollas and patterns of striations in achenes The Heliantheae is considered a member of the subfamily Asteroideae in a position parallel to and more advanced than the Eupatorieae      *A revision of the tribal and subtribal limits of Heliantheae (Asteraceae)* Harold Ernest Robinson,1981      **Research Advances in the Compositae** T.J. Mabry, Gerhard Wagenitz, 2012-12-06 T J MABRY and G W AGENITZ The half day symposium on Multidisciplinary approaches to the systematics of Compositae held as part of the XIV International Botanical Congress in Berlin on July 26 1987 was designed to complement the University of Reading Compositae Conference 1975 The latter had yielded two impressive and thorough volumes on The biology and chemistry of the Compositae which were edited by HEYWOOD HARBORNE TURNER 1977 The 1987 Berlin Symposium did not attempt to update the information from the earlier conference but instead focussed on selected new methods for investigating the systematics of the family as well as a few examples of new systematic approaches with classical methods From mapping chloroplast DNA restriction sites JANSEN PALMER and MI CHAELS reported the astonishing fact that with the exception of one group the subtribe Barnadesiinae of the tribe Mutisieae all investigated other members of Compositae exhibit a characteristic inversion in their chloroplast DNA suggesting that the inversion occurred early in the evolution of the family and that at least its major part is monophyletic Within those groups with the inverted segment chloroplast DNA also suggests that most of the conventionally recognized tribes are also monophyletic This lends high credit to our predecessors who laid the foundations for the taxonomic system of the Compositae These chloroplast DNA studies have already been published and are not included here JANSEN PALMER 1987 1988

**Flavonoids of the Sunflower Family (Asteraceae)** Bruce A. Bohm, Tod F. Stuessy, 2013-11-27 Flavonoids are secondary plant products that have previously been shown to be helpful in determining relationships among plant groups This work presents comprehensively the occurrence patterns of variation and systematic and evolutionary importance of flavonoids in the sunflower family Asteraceae the largest family of flowering plants 23 000 species It gathers together the more than 2500 reports of flavonoids in Asteraceae published between 1950 to the present and interprets these data in context of new taxonomic especially generic alignments The authors discuss flavonoid patterns with reference to modern phylogenetic studies based on morphology and DNA data This book provides therefore the most exhaustive synthesis and

evaluation of the systematic and evolutionary import of flavonoids ever accomplished for any large family of angiosperms

**Contributions from the United States National Herbarium** ,2000 Biology and Chemistry of Jerusalem Artichoke  
Stanley J. Kays, Stephen F. Nottingham, 2007-08-13 A unique plant on many levels the distinctive properties of the Jerusalem  
artichoke or Helianthus tuberosus L present novel answers to some of today s most pressing problems The potential of  
Jerusalem artichoke as a source for inulin a fructose polymer that may provide dietary health benefits for obesity diabetes  
and several other health is **Biodiversity Research in the Horn of Africa Region** Ib Friis, Olof Ryding, 2001 A

*Creationist Review and Preliminary Analysis of the History, Geology, Climate, and Biology of the Galapagos Islands* Todd

Charles Wood, 2005-05-09 NO COPY TO BE USED ON THE BACK COVER AS PER EDITOR Molecular Systematics of

Plants Pamela S. Soltis, Douglas E. Soltis, J.J. Doyle, 2012-12-06 The application of molecular techniques is rapidly  
transforming the study of plant systematics The precision they offer enables researchers to classify plants that have not been  
subject to rigorous classification before and thus allows them to obtain a clearer picture of evolutionary relationships Plant  
Molecular Systematics is arranged both conceptually and phylogenetically to accommodate the interests not only of general  
systematists but also those of people interested in a particular plant family The first part discusses molecular sequencing the  
second reviews restriction site analysis and the sequencing of mitochondrial DNA A third section details the analysis of  
ribosomal DNA and chloroplast DNA The following section introduces model studies involving well studied families such as  
the Onagraceae Compositae and Leguminosae The book concludes with a section addressing theoretical topics such as data  
analysis and the question of morphological vs molecular data Monthly Catalog of United States Government Publications

,1982 **Monthly Catalogue, United States Public Documents** ,1982 *Medicinal and Aromatic Plants VI* Y.P.S

Bajaj, 2012-12-06 27 chapters cover the distribution economic importance conventional propagation micropropagation tissue  
culture studies and in vitro production of important medicinal and other pharmaceutical compounds in various species of  
Anchusa Brucea Catharanthus Chrysanthemum Coleus Corydalis Coreopsis Emilia Ginkgo Gloriosa Hypericum Inonotus  
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contains a wealth of useful information for advanced students and researchers in the field of plant biotechnology and  
chemical engineering pharmacy botany and tissue culture *Biochemical Systematics and Ecology* ,1992 **Grasses of**

**the Trans-Pecos and Adjacent Areas** A. Michael Powell, 1994-11-21 A work that describes 1231 species of woody plants  
with 1240 illustrations **Genetic Resources, Chromosome Engineering, and Crop Improvement** Ram J.

Singh, 2011-09-15 Medicinal Plants Volume 6 of the Genetic Resources Chromosome Engineering and Crop Improvement  
series summarizes landmark research and describes medicinal plants as nature s pharmacy HighlightsExamines the use of  
molecular technology for maintaining authenticity and quality of plant based productsDetails reports on individual medicinal

plants i      Systematics, Ecology, and Chromosomal Evolution of Melampodium (Asteraceae) Tod F. Stuessy, Hanna Weiss-Schneeweiss, Gerald M. Schneeweiss, José L. Villaseñor, 2025-03-26 Chromosomal change has been important in the evolution of flowering plants Cytogenetic modifications resulting in dysploid and polyploid alterations of plant genomes have often led to the formation of new species A genus that represents an excellent example of such changes during its evolutionary history is Melampodium Asteraceae occurring primarily in Mexico Central America and the southwestern United States This book is a detailed presentation of the diversity of species in Melampodium their ecological requirements and phylogenetic relationships the biogeographic patterns and migrational pathways chromosomal diversity and evolutionary origins of species especially the tetraploids and hexaploids through allopolyploidy It is an instructive case study of evolution through chromosomal change in a broadly distributed genus of importance in the ecosystems of Mexico and adjacent regions

**Taxonomy of Complaya, Elaphandra, Iogeton, Jefeá, Wamalchitamia, Wedelia, Zexmenia, and Zyzyxia (Compositae-Heliantheae-Ecliptinae)** John L. Strother, 1991      **Vascular Plant Taxonomy** Dirk R. Walters, 1996

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