

Article

A Nomenclatural and Taxonomic Revision of the *Senecio squalidus* Group (Asteraceae)

Giulio Barone ¹, Gianniantonio Domina ^{2,*}, Fabrizio Bartolucci ³, Gabriele Galasso ⁴ and Lorenzo Peruzzi ⁵

- ¹ Department of Architecture, University of Palermo, Viale delle Scienze, bldg. 14, I-90128 Palermo, Italy
- ² Department of Agricultural, Food and Forest Sciences, University of Palermo, Viale delle Scienze, bldg. 4, I-90128 Palermo, Italy
- ³ Floristic Research Center of the Apennines, University of Camerino—Gran Sasso and Monti della Laga National Park, San Colombino, Barisciano, I-67021 L'Aquila, Italy
- ⁴ Section of Botany, Natural History Museum of Milan, Corso Venezia 35, I-20121 Milano, Italy
- ⁵ PLANTSEED Lab, Department of Biology, University of Pisa, Via Luca Ghini 13, I-56126 Pisa, Italy

* Correspondence: gianniantonio.domina@unipa.it

Abstract: *Senecio squalidus* (Asteraceae) currently includes nine subspecies distributed in North and Central Europe and in the Mediterranean basin. Within this taxonomic aggregate, many species have been described, but research on their nomenclatural types is incomplete. A complete nomenclatural survey of 19 names belonging to this taxonomically critical group was carried out. Fourteen lectotypes are here designated. The nomenclatural analysis, complemented by field investigations in the type localities of the taxa described in the Central Mediterranean, allowed us to accept 10 species. Accordingly, we proposed here a new name and a new missing combination at a specific level: *S. albanensis* and *S. calabrus*.

Keywords: endemism; Mediterranean; nomenclature; taxonomy; typification

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1. Introduction

Senecio squalidus L. (Asteraceae) is a species recorded for North and Central Europe and the Mediterranean basin. Currently, nine subspecies are accepted as proposed by [1–3]. After [1], other contributions dealt with the nomenclature of this group [4–6], but many names still lack nomenclatural types.

In the study of this group, Sicily is a focal point because large part of the taxa have been described or reported from this island. For example, at Mount Etna, three taxa are found at different altitudinal belts. As reported by [7,8], *Senecio aethnensis* Jan ex DC. (= *S. squalidus* subsp. *aethnensis* (Jan ex DC.) Greuter) grows on recent lava in the upper belt, and *S. siculus* All. (= *S. squalidus* subsp. *chrysanthemifolius* (Poir.) Greuter) in the basal belt. At intermediate elevations, these two taxa currently hybridize, forming a hybrid swarm. About 300 years ago, seeds of these hybrid populations were brought to England. At the end of the 18th century, after a century of cultivation in botanic gardens, stabilized derivatives of this old hybridization escaped and spread rapidly to many parts of the British Isles [9,10]. Accordingly, a homoploid hybridogenous species originated, different from the parents but also from the original native hybrid [11–17]. Albeit homoploid hybrid speciation is relatively rare in Asteraceae [18], other examples of speciation due to hybridization are known from Europe, the Mediterranean, and the Americas in other genera of this family (*Bidens*, *Tragopogon*), but also in other lineages, such as *Oenothera* (Onagraceae), *Scabiosa* (Dipsacaceae), and *Vitis* (Vitaceae) [19–22].

Linnaeus [23] described *S. squalidus*, the oldest available name in this group, from cultivated plants possibly obtained by seeds received from Oxford [24], and thus this

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Taxonomic Revision Of The Humiriaceae:

A Taxonomic Revision of the Humiriaceae José Cuatrecasas, 1961 **A Taxonomic Revision of the Humiriaceae** Jose Cuatrecasas, 1961 **Humiriaceae** Ghilleen T. Prance, 2022-01-01 This book provides a comprehensive monograph of the family Humiraceae. It includes information on economic botany, conservation, phylogenetic relationships, taxonomic history, ecology, cytology, anatomy, and phytochemistry among other topics. This volume is illustrated with line drawings, black and white photographs, and distribution maps. It was written by the world leading authority on this plant group and contains a total of eight genera, 65 species, and 15 infraspecific taxa, with two new species described. This work is volume 123 in the Flora Neotropica book series. Lawrence M. Kelly, Editor in Chief. Flora Neotropica volumes provide taxonomic treatments of plant groups or families growing in the Americas between the Tropic of Cancer and the Tropic of Capricorn. *Woody Plants - Evolution and Distribution Since the Tertiary* Deutsche Akademie der Naturforscher Leopoldina, 1989-03-31 Paleobotany has enormously expanded the documentation of fossil plant groups, floras, and vegetation types, supporting its conclusions by technically much improved analyses of microfossils, pollen, and anatomical details. An increasing quantity and quality of all these informations from the geosciences is available when we follow the history of the biosphere up to the present. Simultaneously, research from the biosciences on the morphology, ecology, distribution, systematics, and evolution of extant vascular plants and on the ecogeographical differentiation of the vegetation cover of our planet has made enormous progress. Thus, a synthetic geo and bioscientific approach becomes more and more feasible and urgent for further advances in the many problems of common concern. A symposium organized by the Deutsche Akademie der Naturforscher LEOPOLDINA, attractive to paleo and neobotanists, stimulated the discussion between specialists of the two disciplines. The main results of the symposium are now presented in this volume. Sixteen international contributions outline the current knowledge about the historical differentiation and evolution of woody plant groups and forests covering the whole biosphere. This survey from the beginning of the Tertiary up to the present is a first synthesis of relevant data from the geo and biosciences. *Woody Plants - Evolution and Distribution Since the Tertiary* Friedrich Ehrendorfer, 2013-11-11 Paleobotany has enormously expanded the documentation of fossil plant groups, floras, and vegetation types, supporting its conclusions by technically much improved analyses of microfossils, pollen, and anatomical details. An increasing quantity and quality of all these informations from the geosciences is available when we follow the history of the biosphere up to the present. Simultaneously, research from the biosciences on the morphology, ecology, distribution, systematics, and evolution of extant vascular plants and on the ecogeographical differentiation of the vegetation cover of our planet has made enormous progress. Thus, a synthetic geo and bioscientific approach becomes more and more feasible and urgent for further advances in the many problems of common concern. A symposium organized by the Deutsche Akademie der Naturforscher LEOPOLDINA, attractive to paleo and neobotanists, stimulated the discussion between specialists of the two disciplines. The main results of the symposium are now

presented in this volume Sixteen international contributions outline the current knowledge about the historical differentiation and evolution of woody plant groups and forests covering the whole biosphere This survey from the beginning of the Tertiary up to the present is a first synthesis of relevant data from the geo and biosciences *Bulletin United States National Museum*,1971 **Chemotaxonomy of Flowering Plants** R. Darnley Gibbs,1974-01-01 **Smithsonian Research Opportunities** Smithsonian Institution. Office of Education and Training,1967 **Flowering Plants. Eudicots** Klaus Kubitzki,2013-11-27 This volume presents systematic treatments for the families and genera of the Malpighiales which more recently have been recognised as a new major group of the eudicots Apart from several herbaceous lineages already treated in Vol IX of this series the order consists mainly of rainforest trees particularly those of the understorey Accompanied by other early eudicot lineages this reflects the well documented origin of the group as invaders into the conifer cycad and seed fern dominated forests of the Cretaceous which at that time were transformed into the tropical rainforest biome In this volume 24 families with 429 genera comprising over 12 000 species are treated Many of these belong to the vast family of the Euphorbiaceae here conceived in a broader sense followed by the Violaceae whereas some of the remaining families are very small and even relictual The revised classification includes a complete inventory of the genera belonging to the families treated in this volume along with their diagnostic features and keys for their identification References to the latest taxonomic literature and links to many different disciplines important to modern plant systematics make the volume a valuable source of information on the manifold aspects of plant diversity **CRC World Dictionary of Plant Names** Umberto Quattrocchi,1999-11-17 This volume provides the origins and meanings of the names of genera and species of extant vascular plants with the genera arranged alphabetically from M to Q *Flora of Barro Colorado Island* Thomas B. Croat,1978 Florenwerke Panama **Catalog of the Library of the Academy of Natural Sciences of Philadelphia** Academy of Natural Sciences of Philadelphia. Library,1972 **Contributions from the United States National Herbarium...** United States national museum (Washington). National herbarium,1961 **The Flowering Plants Handbook** James W. Byng,2014-10-16 This plant book aims to help identify flowering plants to genus and family level anywhere in the world In 2014 there were very few available works which were both comprehensive and up to date for all the flowering plants families and genera of the world The Flowering Plants Handbook is an easy to use identification guide to the worlds flowering plants designed for both specialists and non specialists and from beginner to expert The book contains descriptions of all currently recognised flowering plant families morphological notes for 6656 genera all current genera for 398 413 families and over 3000 images and illustrations Flowering plants can be identified using the book to family and much of the world s generic diversity in four easy steps Some plants will be identified correctly quickly whilst others may require some retracing of steps and take a little more time The advantage of this book is that it helps the user learn about the classification system and plant diversity during the identification process This work was compiled and developed using the living library and herbarium

collections at the University of Aberdeen Royal Botanic Gardens Edinburgh and Royal Botanic Gardens Kew Families and Genera of Spermatophytes Recognized by the Agricultural Research Service Charles R. Gunn, 1992 **Annual Report**

United States National Museum, 1958 **Flowering Plants** Armen Takhtajan, 2009-07-06 Armen Takhtajan is among the greatest authorities in the world on the evolution of plants. This book culminates almost sixty years of the scientist's research of the origin and classification of the flowering plants. It presents a continuation of Dr. Takhtajan's earlier publications including *Systema Magnoliophytorum* 1987 in Russian and *Diversity and Classification of Flowering Plants* 1997 in English. In his latest book, the author presents a concise and significantly revised system of plant classification. Takhtajan's system based on the most recent studies in plant morphology, embryology, phytochemistry, cytology, molecular biology, and palynology. Flowering plants are divided into two classes: class Magnoliopsida or Dicotyledons includes 8 subclasses, 126 orders, c. 440 families, almost 10 500 genera, and no less than 195 000 species; and class Liliopsida or Monocotyledons includes 4 subclasses, 31 orders, 120 families, more than 3 000 genera, and about 65 000 species. This book contains a detailed description of plant orders and descriptive keys to plant families, providing characteristic features of the families and their differences.

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United States National Museum, 1958 **Plants of the World** Maarten J. M. Christenhusz, Michael F. Fay, Mark W. Chase, 2017-11-13 *Plants of the World* is the first book to systematically explore every vascular plant family on earth; more than four hundred and fifty of them organized in a modern phylogenetic order. Detailed entries for each family include descriptions, distribution, evolutionary relationships, and fascinating information on economic uses of plants and etymology of their names. All entries are also copiously illustrated in full color with more than 2 500 stunning photographs. A collaboration among three celebrated botanists at the Royal Botanic Gardens Kew, *Plants of the World* is authoritative, comprehensive, and beautiful. Covering everything from ferns to angiosperms, it will be an essential resource for practicing botanists, horticulturists, and nascent green thumbs alike. Wood structure in biological and technological research Baas, 2024-09-02

Adopting the Tune of Expression: An Emotional Symphony within **Taxonomic Revision Of The Humiriaceae**

In a global taken by screens and the ceaseless chatter of immediate transmission, the melodic elegance and psychological symphony created by the prepared term usually diminish into the background, eclipsed by the constant noise and disruptions that permeate our lives. However, situated within the pages of **Taxonomic Revision Of The Humiriaceae** a marvelous fictional treasure brimming with organic thoughts, lies an immersive symphony waiting to be embraced. Constructed by an outstanding musician of language, that interesting masterpiece conducts viewers on a mental trip, skillfully unraveling the hidden tunes and profound impact resonating within each cautiously constructed phrase. Within the depths with this poignant evaluation, we can examine the book is key harmonies, analyze its enthralling writing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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