



Sonchus esperanzae, nom. nov. (Compositae, Cichorieae)

Authors: Kilian, Norbert, and Greuter, Werner

Source: Willdenowia, 34(1) : 65-66

Published By: Botanic Garden and Botanical Museum Berlin (BGBM)

URL: <https://doi.org/10.3372/wi.34.34105>

BioOne Complete (complete.BioOne.org) is a full-text database of 200 subscribed and open-access titles in the biological, ecological, and environmental sciences published by nonprofit societies, associations, museums, institutions, and presses.

Your use of this PDF, the BioOne Complete website, and all posted and associated content indicates your acceptance of BioOne's Terms of Use, available at www.bioone.org/terms-of-use.

Usage of BioOne Complete content is strictly limited to personal, educational, and non - commercial use. Commercial inquiries or rights and permissions requests should be directed to the individual publisher as copyright holder.

BioOne sees sustainable scholarly publishing as an inherently collaborative enterprise connecting authors, nonprofit publishers, academic institutions, research libraries, and research funders in the common goal of maximizing access to critical research.

doi: 10.3372/wi34.34105 (available via <http://dx.doi.org/>)

Notulae ad floram euro-mediterraneam pertinentes No. 12

NORBERT KILIAN & WERNER GREUTER

Sonchus esperanzae, nom. nov. (*Compositae*, *Cichorieae*)

Abstract

Kilian, N. & Greuter, W.: *Sonchus esperanzae*, nom. nov. (*Compositae*, *Cichorieae*). – Willdenowia 34: 65-66. – ISSN 0511-9618; © 2004 BGBM Berlin-Dahlem.

A new name in *Sonchus* is validated for *Wildpretia beltraniae* (non *Sonchus xbeltraniae*). The typification of both names is discussed, as it reflects on their valid publication, which is confirmed.

Morphological, anatomical and molecular studies (Aldridge 1976, 1977, 1978, Kim & al. 1996a-b, 1999a-b) have shown that the “woody *Sonchus* alliance” of the “Macaronesian” islands descends from a common ancestor but is nested within *Sonchus*. By consequence, the former genera *Atalanthus* D. Don (\equiv *Taeckholmia* Boulos), *Babcockia* Boulos, *Lactucosonchus* (Sch. Bip.) Svent. (\equiv *Wildpretia* U. Reifemb. & A. Reifemb.) and *Sventenia* Font Quer are best included in *Sonchus*, along with *S.* subg. *Dendrosonchus* Sch. Bip. Such new combinations as were required have recently been validated by us (in Greuter 2003: 265) for use in the *Compositae* treatment of the Euro+Med Checklist (in preparation). However, when transferring *Wildpretia beltraniae* U. Reifemb. & A. Reifemb. to *Sonchus* we overlooked the existence of an older homonym, *Sonchus xbeltraniae* U. Reifemb. & A. Reifemb.

Katherine Challis (Kew), in writing, kindly pointed out this fact, and at the same time raised the question of valid publication of the names. Indeed, the type citation in the protologues of *Wildpretia beltraniae* and *Sonchus xbeltraniae* is puzzling. In both cases the holotype, while cited under a single TFC accession number, is said to consist of flowering and fruiting material collected on two different dates. If this were so, then the alleged holotype would consist of two gatherings and would not qualify as a specimen (ICBN, Art. 8.1-2). Under ICBN Art. 37.1-2, neither name would then be validly published, and the same would be true of our intended new combination.

Following an enquiry at TFC, Pedro Pérez de Paz and Juan Acebes kindly supplied the following information.

TFC 28290, the designated holotype of *Wildpretia beltraniae*, is a single sheet with a plant in flower and fruit, collected on 4 May 1989. The so-called isotypes are not in G and K as stated in

66 the protologue, having been retained in TFC. They were both collected on 30 May 1988, and neither bears a TFC number; they are actually paratypes (ICBN, Art. 8.5 and 9.8). Kilian & Greuter: *Sonchus esperanzae*, nom. nov. [Cro

TFC 28789, the designated holotype of *Sonchus xbeltraniae*, is a single specimen mounted on two sheets (ICBN Art. 8.3). One sheet bears the flowering and fruiting portion of a single plant, the other the vegetative basal portion of the same. According to the manuscript field label the specimen was collected on 20 January 1988. The second date mentioned in the protologue (28 April 1988) appears on the typed label, but is obviously erroneous. There exists no separate, fruiting specimen collected on the later date, as the protologue pretends.

Consequently, both *Wildpretia beltraniae* and *Sonchus xbeltraniae* are validly published names, and our new combination, while equally validly published, is an illegitimate junior homonym, for which a new name is required:

Sonchus esperanzae N. Kilian & Greuter, **nom. nov.** \equiv *Wildpretia beltraniae* U. Reifenb. & A. Reifenb. in *Vieraea* 25: 204. 1997 \equiv *Lactucosonchus beltraniae* (U. Reifenb. & A. Reifenb.) Bramwell in *Bot. Macaronés.* 24: 171. 2003 \equiv *Sonchus beltraniae* (U. Reifenb. & A. Reifenb.) N. Kilian & Greuter in *Willdenowia* 33: 237. 2003 [non *Sonchus xbeltraniae* U. Reifenb. & A. Reifenb. in *Vieraea* 25: 197. 1997]. – Holotype: La Palma, Bco. Briestas, 1250 m, 4.5.1989, *Reifenberger & Reifenberger* (TFC 28290).

The epithets *esperanzae* and *beltraniae* both honour Esperanza Beltrán Tejera, competent and charming botanist-mycologist at the Department of Plant Biology, University of La Laguna, Tenerife (TFC).

References

- Aldridge, A. E. 1976: A critical reappraisal of the Macaronesian *Sonchus* subgenus *Dendrosonchus* s.l. (*Compositae*, *Lactuceae*). – *Bot. Macaronés.* **2**: 25-58.
- , 1977: Anatomy and evolution in the Macaronesian *Sonchus* subgenus *Dendrosonchus* (*Compositae*, *Lactuceae*). Nodal and petiolar vascular patterns. – *Bot. Macaronés.* **3**: 41-59.
- 1978: Anatomy and evolution in the Macaronesian *Sonchus* subgenus *Dendrosonchus* (*Compositae*: *Lactuceae*). – *Bot. J. Linn. Soc.* **76**: 249-285.
- Greuter, W. 2003: The Euro+Med treatment of *Cichorieae* (*Compositae*) – generic concepts and required new names. – *Willdenowia* **33**: 229-238.
- Kim, S.-C., Crawford, D. J. & Jansen, R. K. 1996a: Phylogenetic relationships among the genera of the subtribe *Sonchinae* (*Asteraceae*): Evidence from ITS sequences. – *Syst. Bot.* **21**: 417-432. [CrossRef]
- , —, Francisco-Ortega, J. & Santos-Guerra, A. 1996b: A common origin for woody *Sonchus* and five related genera in the Macaronesian islands: Molecular evidence for extensive radiation. – *Proc. Natl. Acad. Sci. USA* **93**: 7743-7748. [CrossRef]
- , —, — & — 1999a: Adaptive radiation and genetic differentiation in the woody *Sonchus* alliance (*Asteraceae*: *Sonchinae*) in the Canary Islands. – *Pl. Syst. Evol.* **215**: 101-118. [CrossRef]
- , —, Jansen, R. K. & Santos-Guerra, A. 1999b: The use of a non-coding region of chloroplast DNA in phylogenetic studies of the subtribe *Sonchinae* (*Asteraceae*: *Lactuceae*). – *Pl. Syst. Evol.* **215**: 85-99. [CrossRef]
- Sennikov, A. N. & Illarionova, I. D. 1999: Reclassification of *Prenanthes pendula* (*Asteraceae*: *Lactuceae*). – *Compositae Newsl.* **34**: 53-57.

Address of the authors:

Dr Norbert Kilian and Prof. Dr Werner Greuter, Botanischer Garten und Botanisches Museum Berlin-Dahlem, Freie Universität Berlin, Königin-Luise-Str. 6-8, D-14191 Berlin, Germany; e-mails: n.kilian@bgbm.org, w.greuter@bgbm.org