

## **On the Correct Authorship of Three Combinations in *Xerochlamys* Baker (Sarcoilaenaceae)**

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## 6. HONG-WA, Cynthia & George E. SCHATZ: On the correct authorship of three combinations in *Xerochlamys* Baker (Sarcolaenaceae)

### Introduction

Within the endemic Malagasy family *Sarcolaenaceae*, a group of closely related genera have been treated by various authors as either three genera (*Leptolaena* Thouars, *Mediusella* (Cavaco) Hutch., and *Xerochlamys* Baker), or as a single broadly-defined genus under the name *Leptolaena*. Following an earlier revision of *Leptolaena* s.s. (SCHATZ & al., 2001), and in light of an ongoing molecular phylogenetic study of the family (Haevermans, pers. comm.), a recent revision recognizes both *Mediusella* and *Xerochlamys*, and clarifies species delimitation in the two genera (HONG-WA, 2009).

Until now, authorship of three combinations in *Xerochlamys* (*X. bojeriana*, *X. diospyroidea*, and *X. grandidieri*) for names originally described in the genus *Sarcolaena* Thouars by Baillon has been attributed to J. G. Baker. PERRIER DE LA BATHIE (1931) accepted the genus *Xerochlamys* and mistakenly cited Baker as the author of the three combinations, in each case incorrectly citing their place of publication as “Trim. J. of Bot. 1882: 4”. CAVACO (1952), in adopting *Leptolaena* s.l., similarly misattributed authorship of the combinations *Xerochlamys bojeriana* and *X. grandidieri* to Baker in the same incorrect reference, placing them in synonymy under *Leptolaena bojeriana* (Baill.) Cavaco and citing their place of publication as “*Journ. of Bot.* XX 1882: 4”; however, he did not mention the combination *Xerochlamys diospyroidea* in synonymy under *Leptolaena diospyroidea* (Baill.) Cavaco. In fact, the current full journal citation for Baker’s 1882 publication, which both Perrier and Cavaco incorrectly cited as occurring on page 4, is “*Journal of Botany, British and Foreign* 20: 45” (standard abbreviation “*J. Bot.*”; the journal was originally known as “*Trimen’s Journal of Botany, British and Foreign*”, hence Perrier’s abbreviation “*Trim. J. of Bot.*”), where Baker first described the genus *Xerochlamys* and the species *X. pilosa*, but made no mention whatsoever of *bojeriana*, *diospyroidea*, or *grandidieri*. These citation errors, both in authorship and

place of publication, were perpetuated, when recently HONG-WA (2009) also erroneously attributed the three combinations to Baker, incorrectly citing their place of publication as “*Journal of the Linnean Society, Botany* 25: 296. 1889”, where, in fact, Baker published *X. pubescens*, but again made no mention of *X. bojeriana*, *X. diospyroidea*, or *X. grandidieri*.

Despite describing these three species in the genus *Sarcolaena*, BAILLON (1886) nevertheless placed them in what he considered to be part of sect. *Xerochlamys* (Baker) Baill. SCHUMANN (1893) published a treatment of *Chlaenaceae* in Engler & Prantl’s “*Die Natürlichen Pflanzenfamilien*” in which he recognized the genus *Xerochlamys*, and associated Baillon’s three *Sarcolaena* names with *Xerochlamys*, but clearly stated that he did not know the three species and therefore could not pass judgment on their correct placement (“*Leider kenne ich jene Arten (Sarcochlaena [Xerochlamys] bojeriana Baill., grandidieri Baill., diospyroidea Baill.) nicht, und kann also über diese ein Urteil nicht abgeben*”. SCHUMANN, 1893: 174), thus not validly publishing the new combinations for the three names in *Xerochlamys* (Article 34.1 of the ICBN; McNEILL & al., 2006). Although *Xerochlamys* is also recognized as a separate genus from *Leptolaena* and *Sarcolaena* in “*Index Kewensis*” (Volume II, p. 1238; Suppl. i, vi, vii, ix), these epithets initially appeared under *Sarcolaena* in 1895 and 1906 (Volume II, p. 804; Suppl. i) and later under *Leptolaena* in 1958 (Suppl. xii), but never as combinations in *Xerochlamys*.

GÉRARD (1915) likewise recognized *Xerochlamys* as a distinct genus; he discussed Baker’s description of the genus and two species (*X. pilosa* and *X. pubescens*), and implied that Baker also recognized the three Baillon *Sarcolaena* species as belonging to *Xerochlamys* (“...le botaniste anglais détachait encore du genre *Sarcochlaena*, tel que l’avait créé du Petit-Thouars, trois espèces: *S. Bojeriana*, *S. diospyroidea* et *S. Grandidieri*, dont il fit des *Xerochlamys*”). (GÉRARD, 1915: 405). Then, on the following page, he goes on to state: “*Nous*

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admettons donc qu'il faut classer respectivement dans deux genres les espèces connues ci-après:" (GÉRARD, 1915: 406), listing species in two columns under either *Sarcochlaena* [sic] or *Xerochlamys*, clearly placing *bojeriana*, *diospyroidea*, and *grandidieri* in *Xerochlamys*, and thus effectively making the new combinations (Articles 33.1, 33.2 and 33.3 of the ICBN; MCNEILL & al., 2006).

Currently, among the three combinations discussed here, only *X. bojeriana* and *X. diospyroidea* are accepted taxa, with *X. grandidieri* considered to be a synonym of *X. bojeriana*. The following taxonomic citations serve as corrections for those that appeared in HONG-WA (2009).

### Nomenclature

*Xerochlamys bojeriana* (Baill.) F. Gérard in *Compt. Rend. Assoc. Franç. Avancem. Sci.* 1914 (sess. 43): 406. 1915.

- ≡ *Sarcolaena bojeriana* Baill. in *Adansonia* 10: 177. 1872. ≡ *Leptolaena bojeriana* (Baill.) Cavaco in *Mém. Inst. Sci. Madagascar, Sér. B, Biol. Vég.* 4: 64. 1952.

**Typus: MADAGASCAR:** Without precise locality, s.d., fl., *Bojer s.n.* (holo-: P [P00389113]!).

- = *Xerochlamys pilosa* Baker in *J. Bot.* 20: 45. 1882.

**Typus: MADAGASCAR:** On the top of a bleak stony hill in the west of the Betsileo-country, s.d., fl., *Baron 134* (holo-: K [K000240319]; iso-: P [P00490727]!).

- = *Sarcolaena grandidieri* Baill. in *Bull. Soc. Linn. Paris* 1: 565. 1886. ≡ *Xerochlamys grandidieri* (Baill.) F. Gérard in *Compt. Rend. Assoc. Franç. Avancem. Sci.* 1914 (sess. 43): 406. 1915. **Typus: MADAGASCAR. Prov. Fianarantsoa:** Ambatomenaloha, [20°37'S 46°33'E], 1876, fl., *Grandidier 63* (holo-: P [P00389114, P00389115, P00389116]!).

- = *Xerochlamys pubescens* Baker in *J. Linn. Soc., Bot.* 25: 296. 1889. **Typus: MADAGASCAR:** Imerina, Lahavohitra mountain, s.d., fr., *Baron 5112* (holo-: K [K000240317]; iso-: P [P00389111, P00389112]!).

*Xerochlamys diospyroidea* (Baill.) F. Gérard in *Compt. Rend. Assoc. Franç. Avancem. Sci.* 1914 (sess. 43): 406. 1915.

- ≡ *Sarcolaena diospyroidea* Baill. in *Bull. Soc. Linn. Paris* 1: 565. 1886.

- ≡ *Leptolaena diospyroidea* (Baill.) Cavaco in *Bull. Mus. Hist. Nat.* ser. 2, 23: 135. 1951.

**Typus: MADAGASCAR. Prov. Fianarantsoa:** Ambatomenaloha, [20°37'S 46°33'E], 1876, fl., *Grandidier 62* (holo-: P [P00047871]!).

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