On the Correct Authorship of Three Combinations in Xerochlamys Baker (Sarcolaenaceae)

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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 BÂTHIE (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 uber diese ein Urteil nicht abgeben". SCHUMANN, 1893: 174), thus not validely 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, [20º37'S 46º33'E], 1876, fl., *Grandidier 63* (holo-: P [P00389 114, 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 [K00 0240317]; 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, [20º37'S 46º33'E], 1876, fl., *Grandidier 62* (holo-: P [P00047871]!).

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