



## *Solanum perarmatum* A.R.Bean (Solanaceae), a new name to replace *S. horridum* Dunal

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### Abstract

*Solanum perarmatum* A.R.Bean is a new name coined to replace the illegitimate *S. horridum* Dunal, for a species endemic to Western Australia. It is compared to the similar *S. cleistogamum* Symon.

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### Introduction

*Solanum horridum* Dunal, published in 1814, is an illegitimate name as it is a later homonym of *Solanum horridum* Salisb., published on page 134 of 'Prodromus Stirpium in Horto ad Chapel Allerton vigentium' (Salisbury 1796). *Solanum horridum* Salisb. is itself a nomenclaturally superfluous and illegitimate replacement name for *Solanum aculeatissimum* Jacq. (see Turland et al. 2018, Art. 52.1). Despite its illegitimacy, the pre-existence of *S. horridum* Salisb. means that *S. horridum* Dunal is unavailable for use and a new name for the latter taxon is required (see Turland et al. 2018, Art. 53.1 and Art. 53 Note 2).

### Taxonomy

#### *Solanum perarmatum* A.R.Bean *nom. nov.*

*Solanum horridum* Dunal in Poir., *Encycl., Suppl.* 3: 763 (1814), *nom. illeg. non* Salisb. (1796). Type: [Western Australia] Côte occidentale de la Nouvelle Hollande, undated [Jul-Aug 1801?],

collector unknown (lecto: P 00256152, *fide* Symon (1981: 195–196)).

*S. horridum* var. *repandifolium* Dunal in DC., *Prodr.* 13: 297 (1852). Type: [Western Australia] Nova Hollandia, undated [Jul-Aug 1801?], *N. Baudin s.n.* (holo: BM 000846843).

**Diagnostic features.** *Solanum perarmatum* is distinctive by virtue of its prostrate habit, entire ovate leaves, and abundant long prickles on the stems and calyx. It is easily distinguished from all associated *Solanum* species except *S. cleistogamum* Symon. *S. perarmatum* and *S. cleistogamum* are very similar, but the corolla of *S. cleistogamum* is 6–9 mm long (vs. 13–16 mm long for *S. perarmatum*), and its fruits are 9–12 mm diameter at maturity (vs. 18–22 mm diameter for *S. perarmatum*).

**Distribution.** *Solanum perarmatum* is endemic to Western Australia, and is almost confined to the Pilbara bioregion, extending from the coast to about 400 km inland.

**Etymology.** The epithet is derived from the Latin *perarmatus*, meaning 'very thorny, heavily armed'.

*Notes.* The type of *Solanum horridum* Dunal was collected during the Baudin expedition, presumably in July or August of 1801, when the crew of the *Géographe* mapped the coastline north from Shark Bay *en route* to Timor.

### Disclosures

No conflict of interest

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