



## The reinstatement of *Latace* Phil. (Amaryllidaceae, Allioideae)

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### Abstract

The monotypic genus *Latace* has been formerly treated under its related genera *Leucocoryne* or *Nothoscordum*. The genus *Zoellnerallium*, on the other hand, was established to include the atypical *Nothoscordum andinum* (= *Ornithogalum andinum*) and, later another similar species, namely *Nothoscordum serenense*, was also placed in this genus. In this contribution we corroborate that *Latace* and *Zoellnerallium* are names applied to the same taxon, and different from *Nothoscordum* and *Leucocoryne*. According to the priority rule, *Latace* is the name to be used instead of *Zoellnerallium*. Consequently, the name *Latace* is reinstated, while *Zoellnerallium* is relegated to the synonymy, and three new combinations are proposed: *Latace andina* f. *andina*, *Latace andina* f. *lutea* and *Latace serenense*. In addition, the chromosome identity of *Latace* (= *Zoellnerallium*) and morphological features that support *Latace* as an independent unit are herein highlighted, and presented together with keys to related genera and to species of *Latace*; lectotypes, neotypes, a distribution map, and illustrations are also included.

**Keywords:** *Leucocoryne*, Leucocoryneae, *Nothoscordum*, *Zoellnerallium*

### Introduction

The genus *Latace* Philippi (1889: 369) was based on the single species *Latace volkmanni* Philippi (1889: 369), from the Andes of Central Chile. The original description indicates the presence of three staminodes and, for this reason, several authors treated *Latace* under *Leucocoryne* Lindley (1829: 1293) (Engler 1900, Krause 1930, Traub 1963, 1967, Rahn 1998). Since then, *Latace* was unnoticed as an independent genus not only in floristic lists and catalogues (Marticorena & Quesada 1985, Guaglianone 1996, 2009, Zuloaga *et al.* 2008), but also in taxonomic, phylogenetic, ecological and phenetic works (Guaglianone 1973, Crosa 1975, 2004, Fay *et al.* 2006, Escobar *et al.* 2012, Jara-Arancio *et al.* 2014, Sassone *et al.* 2013, 2014). *Latace volkmanni* was based on a specimen collected by H. Volckmann in “Andes de Santa Rosa” (IV Region of Coquimbo, Chile) (Philippi 1889). Fuentes (1929) indicated that the herbarium SGO keep a sample of *Latace volkmanni* collected by Volckmann, between 1861–1862. Muñoz Pizarro (1960) and Muñoz-Schick (former curator at SGO, email written communication) consider SGO-46839 as the type specimen of *Latace volkmanni* (Fig. 1A).

On the other hand, *Zoellnerallium* Crosa (1975: 331) was established to include the atypical *Nothoscordum andinum* (Poeppig 1833: 9) Kunth ex Fuentes (1921: 238), as *Zoellnerallium andinum* (Poepp.) Crosa (1975: 331) owing the presence of purplish-red inner bulb cataphylls, curved long embryo, depressed epidermic cells of seeds, and short chromosomes (2.5–10 µm), mostly acrocentric (A) (vs. short rect embryo, non-depressed epidermal cells of seeds, and long metacentric chromosomes (M) in *Nothoscordum* Kunth (1843: 457), Crosa 1972). *Ornithogalum andinum* Poepp. (1833: 9), the basionym of *Zoellnerallium andinum*, and *Nothoscordum andinum*, was described based on a specimen collected in Chile “Cr. in Chili bor. glareosis ad Las cruces, Andes de Santa Rosa” (Poeppig 1833). The original description, although very brief: “*O. escapo terete; pedunculis umbellatis erectis, valde inaequalibus; perianthii laciniis, apice revolutis, oblongis; filamentis linearibus*”, clearly indicates that the tepals’ apices are involute, which is probably one of the most distinctive features of this taxon.

Ravenna (2000) considered that the characters described by Crosa, were too weak to segregate *Nothoscordum andinum* as an independent genus. In the same work, Ravenna (2000: 15) placed *Latace*, together with *Zoellnerallium*,