

## Nomenclatural novelties in *Anthurium* (Araceae)

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**Abstract:** Replacement names *Anthurium gleasonii* R.Kr.Singh & Sanjeet Kumar, *A. shankarii* R.Kr.Singh & Sanjeet Kumar, *A. sodiroi* R.Kr.Singh & Sanjeet Kumar and *A. vishwanathii* R.Kr.Singh & Sanjeet Kumar are proposed for the illegitimate names *A. glaucophyllum* Gleason, *A. robustum* Sodiro, *A. cultrifolium* Sodiro and *A. grande* N.E.Br. ex Engl. respectively. Lectotypes are designated for the names *A. cultrifolium* Sodiro and *A. grande* N.E.Br. ex Engl. to fix the identity and to avoid the misapplication of names.

**Keywords:** Bolivia, Ecuador, Guyana, Illegitimate, Later homonym, Lectotype, Replacement name

### Introduction

The genus *Anthurium* Schott (Araceae) is represented by about 1330 species, distributed from Mexico to tropical America (POWO, 2024). In Guyana (Co-operative Republic of Guyana), the genus is represented by 23 species, namely *Anthurium bakeri* Hook.f., *A. bonplandii* G.S.Bunting, *A. guayanum* G.S.Bunting, *A. clavigerum* Poepp., *A. cowanii* Croat, *A. eminens* Schott, *A. expansum* Gleason, *A. glaucophyllum* Gleason, *A. gracile* (Rudge) Lindl., *A. hookeri* Kunth, *A. jenmanii* Engl., *A. kunthii* Poepp., *A. maguirei* A.D.Hawkes, *A. martianum* K.Koch & Kolb, *A. obtusum* (Engl.) Grayum, *A. pentaphyllum* (Aubl.) G.Don, *A. potarense* Gleason, *A. ptarianum* Steyerem., *A. roraimense* N.E.Br., *A. sagittatum* (Sims) G.Don, *A. scandens* (Aubl.) Engl., *A. sinuatum* Benth. ex Schott and *A. thrinax* Madison, of which *A. cowanii*, *A. glaucophyllum* and *A. potarense* are endemic (POWO, 2024). However, the name *A. glaucophyllum* Gleason (1929: 9) is illegitimate because it is a later homonym of *A. glaucophyllum* Sodiro (1905: 2) in accordance with Article 53.1 of the ICN (Turland et al., 2018). Therefore, a replacement name is herein proposed.

In Ecuador, the genus is represented by 388 species, of which 261 species are endemic (POWO, 2024). However, the names of two endemic species *Anthurium cultrifolium* Sodiro (1905: 284)

and *A. robustum* Sodiro (1906: 31) are illegitimate because these names are later homonym of *A. cultrifolium* Schott (1879: 10) and *A. robustum* Engl. (1905: 192) respectively according to Article 53.1 in Turland et al. (2018). Therefore, a new, replacement name is proposed here for each illegitimate name. Additionally, lectotype is designated for the name *A. cultrifolium* Schott, and the guidelines and recommendations of Article 9 of ICN (Turland et al., 2018) were followed.

In Bolivia, the genus is represented by 45 species, namely *Anthurium acebeyae* Croat, *A. amoenum* Kunth & C.D.Bouché, *A. arisaemoides* Madison, *A. atropurpureum* R.E.Schult. & Maguire, *A. beckii* Croat & Acebey, *A. besseae* Croat, *A. brevipedunculatum* Madison, *A. breviscapum* Kunth, *A. buchtienii* K.Krause, *A. clavigerum* Poepp., *A. conjunctum* K.Krause, *A. coripatense* N.E.Br. ex Engl., *A. croatii* Madison, *A. eminens* Schott, *A. ernesti* Engl., *A. flavescens* Poepp., *A. gracile* (Rudge) Lindl., *A. grande* N.E.Br. ex Engl., *A. grande* W.Bull, *A. harlingianum* Croat, *A. interruptum* Sodiro, *A. kunthii* Poepp., *A. lechlerianum* Schott, *A. lutescens* Engl., *A. macleanii* Schott, *A. microspadix* Schott, *A. monteagudoii* Croat & N.Altam., *A. obtusum* (Engl.) Grayum, *A. ottobuchtienii* Croat, *A. ottonis* K.Krause, *A. oxycarpum* Poepp., *A. paraguayense* Engl., *A. pentaphyllum* (Aubl.) G.Don, *A. plowmanii* Croat, *A. polydactylum* Madison, *A. polyschistum* R.E.Schult. & Idrobo, *A. scandens* (Aubl.) Engl., *A. solomonii* Croat, *A. soukupii* Croat, *A. stephanii* Croat & Acebey, *A. triphyllum* (Willd. ex Schult.) Brongn. ex Schott, *A. uleanum* Engl., *A. versicolor* Sodiro, *A. weberbaueri* Engl. and *A. yungasense* Croat & Acebey, of which *A. acebeyae*, *A. beckii*, *A. besseae*, *A. buchtienii*, *A. conjunctum*, *A. coripatense*, *A. grande* W.Bull, *A. ottobuchtienii*, *A. solomonii*, *A. stephanii* and *A. yungasense* are endemic (POWO, 2024). However, the name *A. grande* N.E.Br. ex Engl. (1905: 204) is illegitimate because it is a later homonym of *A. grande* W.Bull (1865: 934) in accordance with Article 53.1 of the ICN (Turland et al., 2018). Therefore, a replacement name is herein proposed. In addition, lectotype is designated here for the name *A. grande* N.E.Br. ex Engl. as per the guidelines and recommendations of Article 9 of ICN (Turland et al., 2018).

## Nomenclature

***Anthurium gleasonii*** R.Kr.Singh & Sanjeet Kumar, *nom. nov.*

≡ *Anthurium glaucophyllum* Gleason, Bull. Torrey Bot. Club 56: 9. 1929, *nom. illeg., non* Sodiro, Anales Univ. Centr. Ecuador 20(138): 2. 1905.

**Holotype:** British Guiana (Guyana), cultivated at Kew Gardens, October 1891, *Anon. s.n.* (K000974102!, Figure 1).

**Distribution:** Endemic to Co-operative Republic of Guyana.

**Etymology:** The new name is named after Henry Allan Gleason (1882–1975), American Botanist.

***Anthurium shankarii*** R.Kr.Singh & Sanjeet Kumar, *nom. nov.*

≡ *Anthurium robustum* Sodiro, Anales Univ. Centr. Ecuador 22(156): 31. 1906, *nom. illeg., non* *Anthurium x robustum* Engl., Pflanzenr. (Engler) IV, 23B: 192. 1905.

**Holotype:** Ecuador, June 1906, *L. Sodiro s.n.* (F0BN012064!, Figure 2).

**Distribution:** Endemic to Ecuador.

**Etymology:** The new name is named after late Shri Shankar Singh, great grandfather of the lead author.

**Notes:** The F0BN012064 is an image of the holotype specimen which was earlier held at Berlin herbarium, but destroyed during World War II.

***Anthurium sodiroi*** R.Kr.Singh & Sanjeet Kumar, *nom. nov.*

≡ *Anthurium cultrifolium* Sodiro, Anales Univ. Centr. Ecuador 19(136): 284. 1905, *nom. illeg., non* Schott, Aroideae Maximilianae [J. Peyritsch] 10. 1879.

**Lectotype** (designated here): Ecuador, Tungurahua, banks of the Pastaza River, December 1904, *L. Sodiro s.n.* (QPLS!, Figure 3); isolectotype F0BN011895! (Figure 4).

**Distribution:** Endemic to Ecuador.

**Etymology:** The new name is named after Luis Sodiro (1836–1909), Italian Botanist.

**Notes:** Sodiro (1905) mentioned type information for *Anthurium cultrifolium* as “Crece en los bosques subtrop. del volc. Tungurahua á la orilla del río Pastaza. (12/904)”. Two specimens were traced for the name *A. cultrifolium* Sodiro, one each at F (F0BN011895) and QPLS. The F0BN011895 is an image of the specimen which was earlier held at Berlin herbarium, but destroyed during World War II. The only extant specimen at QPLS, is designated here as the lectotype as it agrees well with the protologue.

***Anthurium vishwanathii*** R.Kr.Singh & Sanjeet Kumar, *nom. nov.*

≡ *Anthurium grande* N.E.Br. ex Engl., Pflanzenr. (Engler) IV, 23B: 204. 1905, *nom. illeg., non* W.Bull, Gard. Chron. 1865: 934. 1865 *et* Sodiro, Anales Univ. Centr. Ecuador 20(138): 27. 1905.

**Lectotype** (designated here): Bolivia, Yungas, September 1897, *M. Bang 2312* (K000434197!, Figure 5); isolectotypes K000434198! (Figure 6), K002086217! (Figure 7), K002086218! (Figure 8), K002086219! (Figure 9), NY00133766! (Figure 10).

**Distribution:** Bolivia and Peru.

**Etymology:** The new name is named after late Shri Vishwanath Singh, grandfather of the lead author.

**Notes:** Engler (1905) mentioned type information for *Anthurium grande* as “Bolivia: Yungas (Bang n. 2312 – Herb. Kew)”. Five specimens for the name *A. grande* N.E.Br. ex Engl. of collection number *M. Bang 2312* from Yungas, Bolivia were traced at K (K000434197, K000434198, K002086217, K002086218 and K002086219) and one at NY (NY00133766). The best preserved specimen K000434197, is designated here as the lectotype as it agrees well with the protologue.



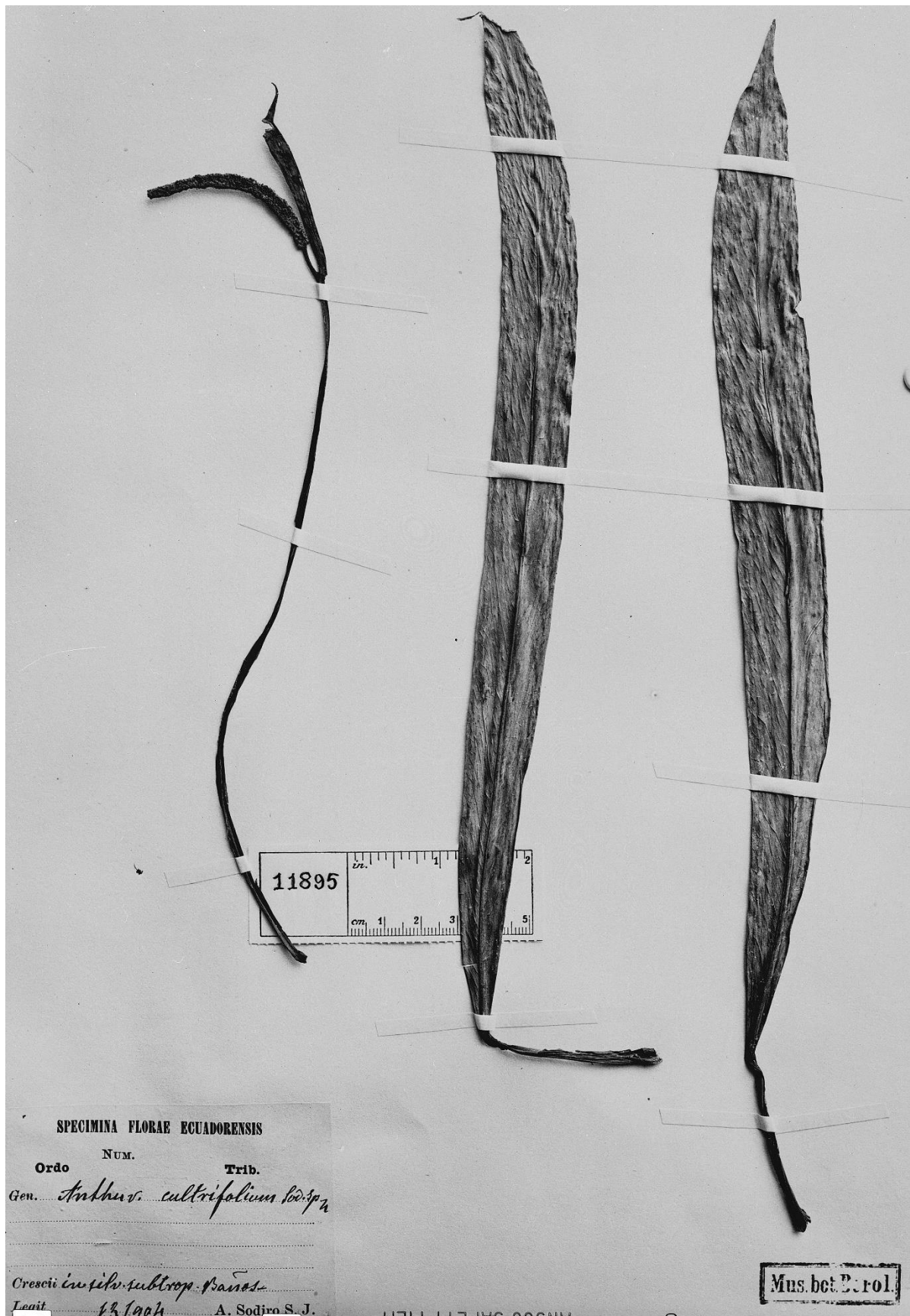
**Figure 1:** Holotype of *Anthurium glaucophyllum* Gleason (K000974102, © The Trustees of the Royal Botanic Gardens, Kew)



**Figure 2:** Holotype of *Anthurium robustum* Sodiro (FOBN012064, © Field Museum of Natural History, Chicago)



**Figure 3:** Lectotype of *Anthurium cultrifolium* Sodiro (QPLS, © Biblioteca Ecuatoriana Aurelio Espinosa Pólit)

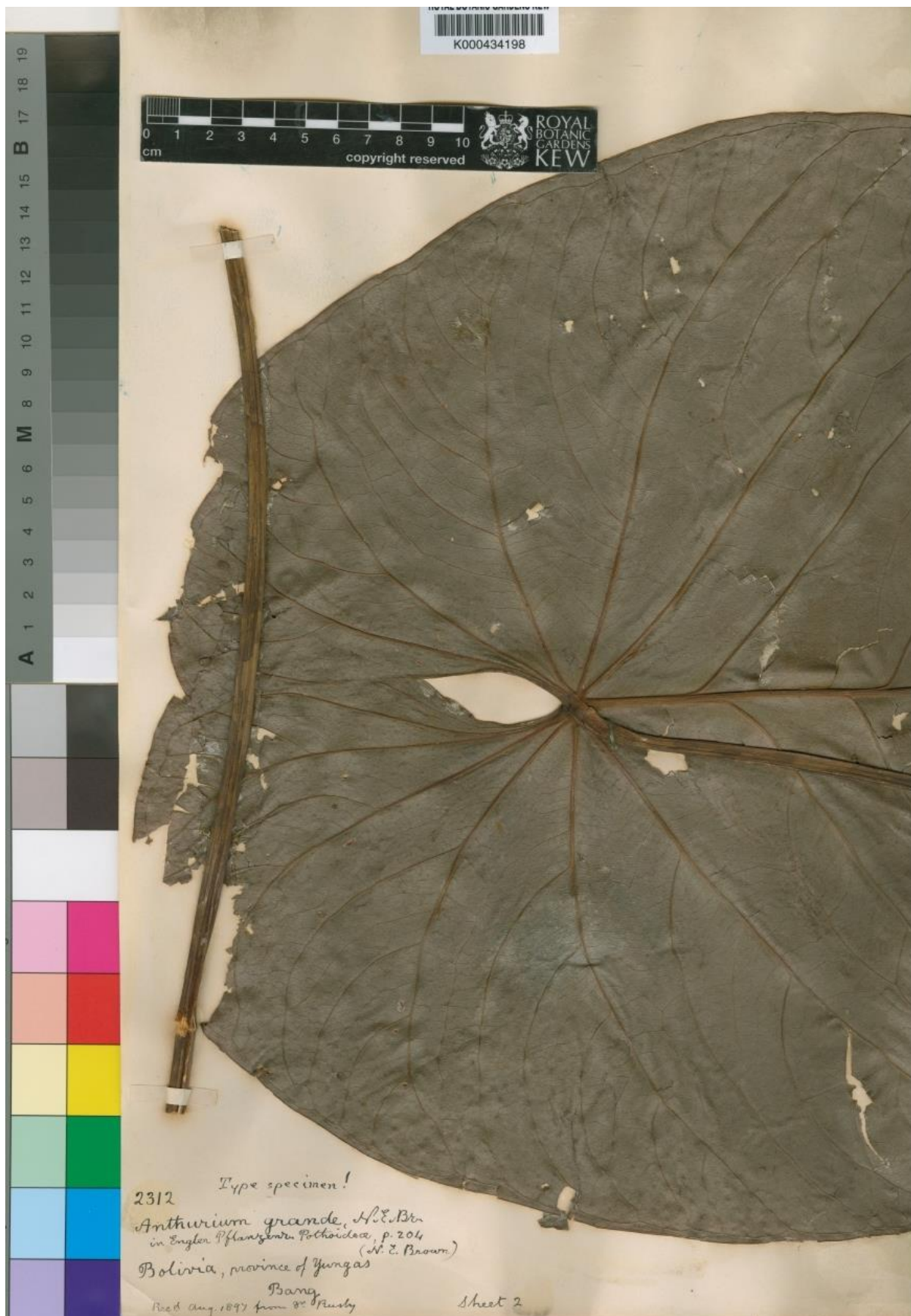


**Figure 4:** Isolectotype of *Anthurium cultrifolium* Sodiro (FOBN011895, © Field Museum of Natural History, Chicago)



**Figure 5:** Lectotype of *Anthurium grande* N.E.Br. ex Engl. (K000434197, © The Trustees of the Royal Botanic Gardens, Kew)





**Figure 6:** Isolectotype of *Anthurium grande* N.E.Br. ex Engl. (K000434198, © The Trustees of the Royal Botanic Gardens, Kew)



**Figure 7:** Isolectotype of *Anthurium grande* N.E.Br. ex Engl. (K002086217, © The Trustees of the Royal Botanic Gardens, Kew)



**Figure 8:** Isolectotype of *Anthurium grande* N.E.Br. ex Engl. (K002086218, © The Trustees of the Royal Botanic Gardens, Kew)



**Figure 9:** Isolectotype of *Anthurium grande* N.E.Br. ex Engl. (K002086219, © The Trustees of the Royal Botanic Gardens, Kew)



**Figure 10:** Isolectotype of *Anthurium grande* N.E.Br. ex Engl. (NY00133766, © Herbarium of the New York Botanical Garden)

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