

Research Article

Nomenclatural novelties in Acanthaceae and a new species of *Justicia* from Madagascar

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Abstract: A new species *Justicia benoistii* from Madagascar is described here by providing a direct reference to the description of invalid species name *Duvernoia curviflora* Benoist. Two new combinations *Isoglossa lancifolia* (Ridl.) R.Kr.Singh & Sanjeet Kumar and *Justicia roseana* (Leonard) R.Kr.Singh & Sanjeet Kumar are proposed here for *Leda lancifolia* Ridl. and *Jacobinia roseana* Leonard respectively. In addition, a new name *Justicia lallanii* R.Kr.Singh is proposed here for *J. lancifolia* (Nees) V.M.Badillo, being a later homonym of *J. lancifolia* (Ridl.) Ridl. ex S.Moore.

Keywords: *Amphiscopia lancifolia*, *Duvernoia curviflora*, Endemic, *Isoglossa*, *Jacobinia roseana*, *Justicia lancifolia*, *Leda lancifolia*, Madagascar, Malaysia, Mexico, Peru

Introduction

In current circumscription, *Amphiscopia* Nees, *Duvernoia* Nees and *Jacobinia* Moric. are synonymous to the genus *Justicia* L., and *Leda* C.B.Clarke is synonymous to the genus *Isoglossa* Oerst. (Manzitto-Tripp et al., 2022). The species name *Duvernoia curviflora* described by Benoist (1964) is invalid because in the protologue he cited two gatherings as types (*H. Humbert*, *L. Bégue* & *R. Capuron 29582* and *Randriamiera 6391*). The citation of types by Benoist is contrary to Article 40.2 Ex. 1 of Shenzhen Code (Turland et al., 2018). To accommodate and validate the invalid species name *Duvernoia curviflora* Benoist under the genus *Justicia*, a new species *Justicia benoistii* R.Kr.Singh is described here in accordance to Article 38.13. of Shenzhen Code (Turland et al., 2018) by providing a direct reference to the description of *Duvernoia curviflora* Benoist (1964). Two new combinations *Isoglossa*

lancifolia (Ridl.) R.Kr.Singh & Sanjeet Kumar and *Justicia roseana* (Leonard) R.Kr.Singh & Sanjeet Kumar are made for *Leda lancifolia* Ridl. and *Jacobinia roseana* Leonard respectively. Further, a new name *Justicia lallanii* R.Kr.Singh is proposed here for illegitimate name *J. lancifolia* (Nees) V.M.Badillo, being a later homonym of *J. lancifolia* (Ridl.) Ridl. ex S.Moore.

Nomenclature

Isoglossa lancifolia (Ridl.) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

Leda lancifolia Ridl., J. Linn. Soc., Bot. 41: 295. 1913. *Justicia lancifolia* (Ridl.) Ridl. ex S.Moore, J. Bot. 60: 358. 1922.

Holotype: Malaysia, Me Muang Gasing, Ulu Langat, Selangor, February 1912, C.B. Kloss s.n. (K000884186!, Figure 1).

Distribution: Endemic to Malaysia.

Justicia benoistii R.Kr.Singh, *sp. nov.*

Duvernoia curviflora Benoist, Bull. Soc. Bot. France 111: 428. 1964, *nom. inval.* [contrary to Article 40.2 Ex. 1 of Shenzhen Code (Turland et al., 2018)].

Holotype: Madagascar, Forêt de Zombitsy (Sakaraha), aux confins des bassins du Fiherenana et de l'Onilahy, Forêt tropophile sur sables siliceux de l'Isalo, 600–850 m, March 1955, H. Humbert, L. Bégue & R. Capuron 29582 (P00137128!, Figure 2).

Paratypes: Madagascar, Soalala, RN 8, 6 May 1954, *Randriamiera* 6391 (P00137129!, Figure 3 and K000419187!, Figure 4).

Distribution: Endemic to Madagascar.

Etymology: Named after Raymond Benoist (1881-1970), French Botanist.

Notes: While describing *Duvernoia curviflora*, Benoist (1964) cited the type information as “Forêt de Zombitsy (Sakaraha), aux confins des bassins du Fiherenana et de l'Onilahy, forêt tropophile sur sables siliceux de l'Isalo, alt. 600-850 mètres, HUMBERT, BÉGUÉ & CAPURON 29582; district de Soalala RANDRIAMIERA 6391”. The type citation given by Benoist is contrary to Article 40.2 Ex. 1 of Shenzhen Code (Turland et al., 2018) because he cited two gatherings as types (*H. Humbert, L. Bégue & R. Capuron 29582* and *Randriamiera 6391*). Thus, the species name *Duvernoia curviflora* Benoist is invalid. However, *Duvernoia* Nees is synonymous to the genus *Justicia* L. and therefore, a new species *Justicia benoistii* R.Kr.Singh is described here in accordance to Article 38.13. of Shenzhen Code (Turland et al., 2018) by providing a direct reference to the description given by Benoist (1964: 428).

Justicia lallanii R.Kr.Singh, *nom. nov.*

Amphiscopia lancifolia Nees, Prodr. [A. P. de Candolle] 11: 357. 1847. *Ecbolium lancifolium* (Nees)



Figure 2: Holotype of *Justicia benoistii* R.Kr.Singh (P00137128, © Muséum National d'Histoire Naturelle, Paris)



Figure 3: Paratype of *Justicia benoistii* R.Kr.Singh (P00137129, © Muséum National d'Histoire Naturelle, Paris)



Figure 4: Paratype of *Justicia benoistii* R.Kr.Singh (K000419187, © The Trustees of the Royal Botanic Gardens, Kew)



Figure 5: Isotype of *Amphiscopia lancifolia* Nees (MA00815523, © Herbarium of Real Jardín Botánico, Madrid)



Figure 6: Isotype of *Amphiscopia lancifolia* Nees (MA00815524, © Herbarium of Real Jardín Botánico, Madrid)

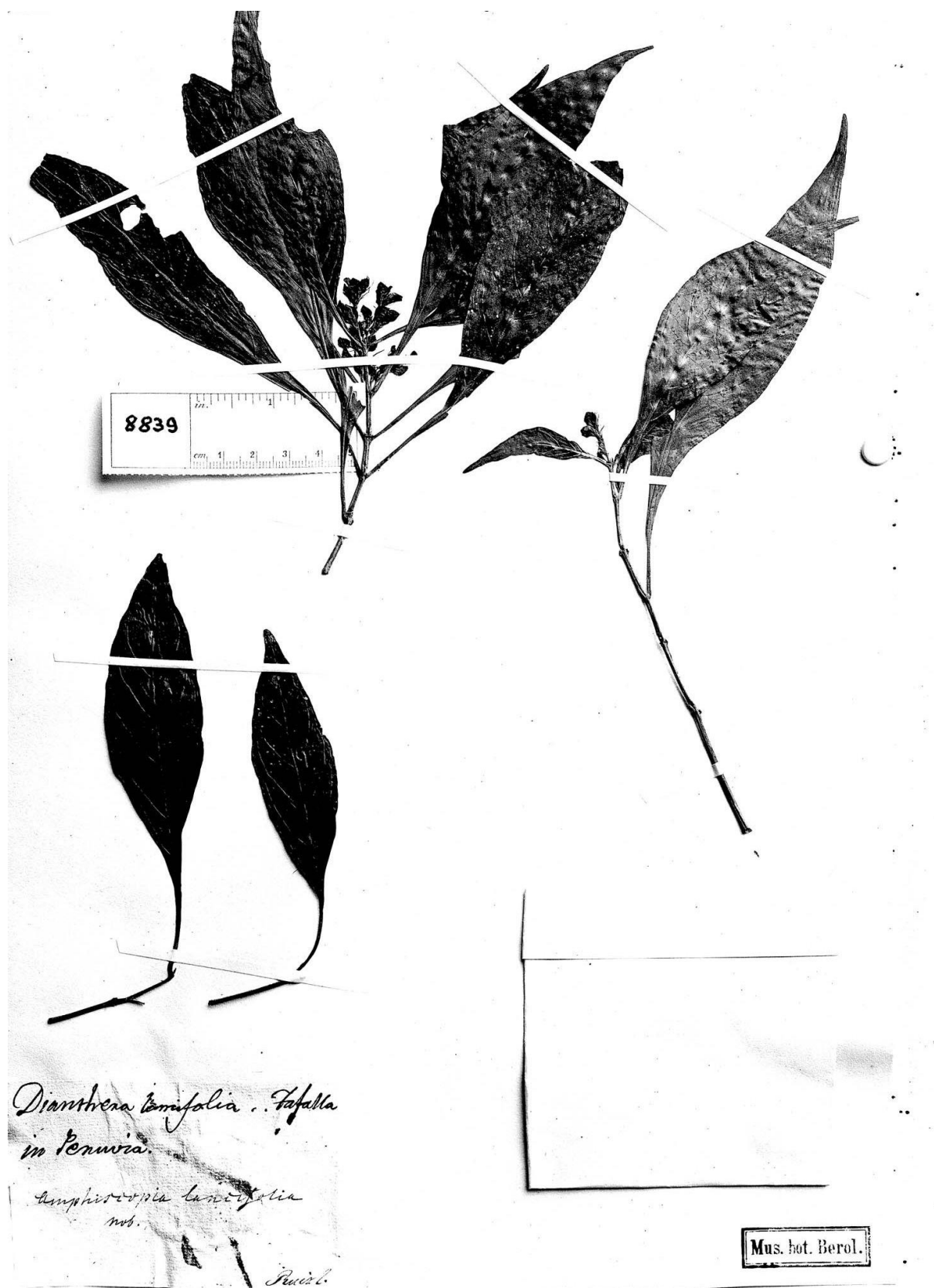


Figure 7: Image of holotype specimen of *Amphiscopia lancifolia* Nees (© Herbarium of Field Museum of Natural History, Chicago)



Figure 8: Holotype of *Jacobinia roseana* Leonard (US00137208, © National Museum of Natural History, Smithsonian Institution, Washington, D.C.)



Figure 9: Isotype of *Jacobinia roseana* Leonard (K000064728, © The Trustees of the Royal Botanic Gardens, Kew)

Kuntze, Revis. Gen. Pl. 2: 980. 1891. *Justicia lancifolia* (Nees) V.M.Badillo, Cat. Fl. Venez. [Pittier] 2: 419. 1947, *nom. illeg., non* (Ridl.) Ridl. ex S.Moore, J. Bot. 60: 358. 1922.

Holotype: Peru, *s.d.*, Ruiz *s.n.* (B, specimen not extant); isotype GZU000259675!, MA00815523! (Figure 5), MA00815524! (Figure 6).

Distribution: Endemic to Peru.

Etymology: Named after Shri Lallan Singh, father of the lead author.

Notes: Presently, holotype specimen of *Amphiscopeia lancifolia* Nees is not extant at B herbarium, but its image is housed at F herbarium (Figure 7).

Justicia roseana (Leonard) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

Jacobinia roseana Leonard, J. Wash. Acad. Sci. 32: 342. 1942.

Holotype: Mexico, Colima, Manzanillo, December 1890, *E. Palmer 946* (US00137208!, Figure 8); isotype K000064728! (Figure 9).

Distribution: Endemic to Mexico.

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