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One New Species and One New Subspecies of *Cissus* (Vitaceae) from Colombia

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**ABSTRACT.** *Cissus colombiensis* and *C. verticillata* subsp. *colombiana*, new taxa of Vitaceae, are described from Colombia. In addition to descriptions and illustrations, comments on their probable relationships and distributions are presented.

*Cissus* L. has approximately 55 species in South America and is the largest genus in the Vitaceae. Many of the species described by Baker (1871; placed in the genus *Vitis*), and Planchon (1887) were considered synonyms in a recent taxonomic survey by the author (Lombardi, 1995), while one new species and one new subspecies were found in Colombia: *Cissus colombiensis* and *C. verticillata* subsp. *colombiana*.

**Cissus colombiensis** Lombardi, sp. nov. TYPE:

Colombia: Antioquia: Frontino, Corregimiento Nuthara, Región Murí, camino hacia La Blanquita, 1440 m, 10 July 1986, Acvedo et al. 1204 (holotype, NY). Figure 1.

Frutex scandens, folis ternatis, hispidis. *C. ulmifoliae* (Baker) Planchon similis, sed infloroscentia hauud umbelliformi, calyce urceolato, fructibus 1.5 cm longis, 1 cm latis, seminibus raphe rugosa, differt.

Liana, stem hispid, terete. Trichomes chiefly multicellular and not secretory, mixed with sparse not secretory and unicellular trichomes, and secretory trichomes. Tendrils with several bifurcate branches, hispid, adhesive discs not seen; scales ca. 0.15 cm long, triangular, puberulent, ciliate. Stipules ca. 0.4 cm long, 0.3 cm wide, subfalcate, fleshy, glabrous, the base gibbous, caducous. Petioles 1.4–8.5 cm long, terete, hispid to villous. Leaf blades ternately compound, much reduced in reproductive shoots; central petiololes 0.35–2.7 cm long, lateral petiololes 0–1.8 cm long, hispid to villous; blades of central leaflets subelliptic, elliptic to ovobate, 4.3–18.8 cm long, 1.3–9.7 cm wide, blades of lateral leaflets subovate, subelliptic to elliptic, 3.6–14.35 cm long, 1.15–7.3 cm wide, central and lateral leaflets herbaceous, sparsely hispid to hispid chiefly along the prominent veins on the abaxial side, sparsely puberulent along the veins on the adaxial side, the base subreniform, oblique, cuneate to rounded, the apex acuminate to acute, the margin denticulate. Compound cymes elongated, the peduncle 1.8–3.5 cm long, puberulent; the bracts triangular, 0.1–0.2 cm long, the base gibbous, puberulent, ciliate. Flowers greenish; pedicels 0.25–0.3 cm long, puberulent; calyx truncate, 0.1–0.15 cm long, 0.2–0.3 cm diam., urceolate, fleshy, glabrous; corolla tetrurous, 0.15–0.25 cm long, 0.15–0.3 cm diam., petals coherent, the margin elevated in the junction, caducous, papillos; stamens 4, connective deltate, granular, drying slightly dark brown, anther dehiscence extrorse; disc apex concave with central depression; the style conic, the stigma slightly clavate. Fruit purple, subspherical, with sparse lenticels, 1.5 cm long, 1 cm wide. Seed 1, subobconic, 1.1 cm long, 0.9 cm wide, the hilum acute, the raphe prominent and crispate, the sides rugose.

This species is named after Colombia, the country with the most complete collections. It is distinctive among the South American trifoliate species by its large leaves and flowers, the hispid leaves prominently nerved, the elongate inflorescence, the urceolate calyx, and the peculiar seeds.

This species is similar to *Cissus ulmifoliae* (Baker) Planchon, but differs in the urceolate calyx, the elongate inflorescence (umbelliform in *Cissus ulmifoliae*), and in the seeds with a crispate raphe and rugose sides (raphe not crispate and sides deeply sulcate in *Cissus ulmifoliae*).

The apparent disjunct distribution of *Cissus colombiensis* probably can be explained by a lack of collections of this species, a large liana in the rainforests of the Amazon basin and adjacent areas.

**Paratypes.** COLOMBIA. Boyacá: upper Chapon, 100 mi. NW de Bogotá, 6500 ft., high forest fronts, 8 Aug, 1932, Lawrence 397 (A—2 sheets, F, S). BRAZIL. AMAZONAS: Novo Japurá, rio Japurá, margem direita, mata de várzea, 9 Nov. 1982, Amaral et al. 379 (NY); São Paulo NOVON 6: 191–194. 1996.
Figure 1. *Cissus colombiensis* Lombardi. —A. Reproductive branch. —B. Stamens, ventral, lateral, and dorsal views. —C. Vegetative leaf. —D. Flower bud. —E. Stipule. —F. Nectariferous disc and pistil. —G. Seed. A–F from Acededo et al. 1204; G from Laurance 397. Scales A, C = 1 cm, B, D–G = 1 mm. Drawn by the author.
Cissus verticillata subsp. colombiana Lombardi, subsp. nov. TYPE: Colombia. Magdalena: dry hills 12 km W of Codazzi, ca. 100 m, 26 May 1944, **Haught 4182** (holotype, F; isotype, S).

Figure 2.

**Cissus verticillata** subsp. **colombiana** Lombardi, has leaves that are subcircular on vegetative shoots, and depressed ovate, transversely elliptic to deltate on reproductive shoots (in subspecies **verticillata** they are ovate, triangular, lanceolate, elliptic, obovate, wide-ovate to subpanduriform on vegetative shoots, and ovate, oblong to triangular on reproductive shoots); stipules with margin and apex reflected (only apex reflected in subspecies **verticillata**); and smaller and pauciflorous inflorescences (3.5–7.4 cm long, 3.0–5.9 cm wide, and multiflorous in subspecies **verticillata**).

The peculiar leaf shape, and the restricted geographic occurrence of this variation, not encountered in the rest of the distribution area of **Cissus verticillata** (south Florida to North Argentina), justify the recognition of subspecies **colombiana** as a distinct entity.

**Paratypes.** COLOMBIA. Atlántico: Magdalena, Santa Marta, 100 ft., Aug. 1898–1901, H. H. Smith 570 (BM); Santa Marta, near seacoast, Sep. 1898–1901, H. H. Smith 1319 (BR); Santa Marta, 500 ft., July 1898–1901, H. H. Smith 2724 (BM, BR, E, F, I, S, U), VENEZUELA. Aragua: Maracay, Facultad de Agronomía, cerro con bosque caducifolio, detrás del Instituto de Botánica Agrícola, 29 Aug. 1974, **Guevara 1753** (F); Maracay, 1934, **Vogl 1294** (M). Carabobo: environs de El Palito, 50 m, 24 Sep. 1920, **Pittier 9084** (Z), **Distrito Federal**: bosque seco en las faldas costeñas frente el mar, entre Punto Pircue y Orico, 100–200 m, 1 July 1966, **Steyermark & Ariste- 115** (F). Falcón: Dto. Silva, bosque troppófilo por encima de la línea de penascos calcáreos, al S de la Punta Faustino, al SE de Chichiriviche, 15–25 m, 29 Aug. 1974, **Steyermark & Muñara 110404** (U). **Nueva Esparta**: Isla Margarita, 0–850 m, Aug. 1955, **Bernardi 2391** (NY); Island of Margarita, 1 Aug. 1901, Miller 244 (ARIZ, F).

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