

A NEW SPECIES, A NEW COMBINATION, AND  
NEW SYNONYMY FOR SOUTH AMERICAN  
*JALTOMATA* (SOLANACEAE)

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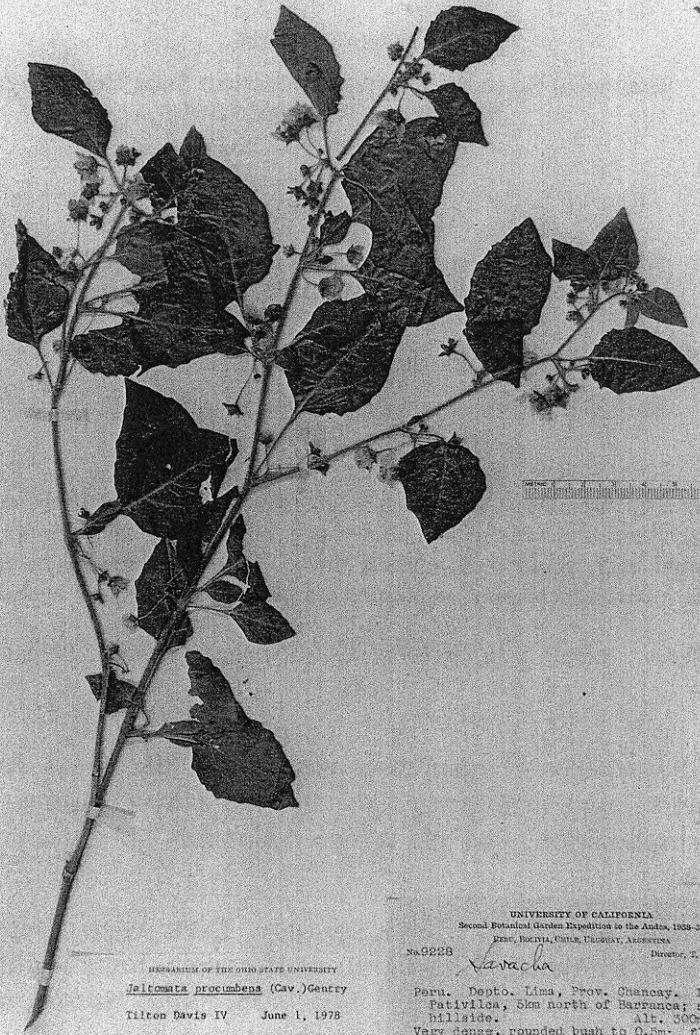
ABSTRACT. *Jaltomata hunzikeri*, a rare shrub of the coast of the department of Lima, Peru, is described and shown in a photograph. *Hebecladus sinuosus*, transferred as *J. sinuosa*, is a shrub that is widely distributed in the Andes. *Saracha lobata* and *S. sordideviolacea* are placed in synonymy with *J. dentata*.

Key Words: edible fruit, *Hebecladus*, *Jaltomata*, *Saracha*, Solanaceae

In the process of taxonomic revision of the genus *Jaltomata* we have found it necessary to describe a new species, make a new combination, and place two binomials in synonymy with another.

***Jaltomata hunzikeri*** Mione, *sp. nov.* TYPE: PERU. Dept. Lima: Prov. Barranca, 5 km north of Barranca, lomas of Pativilca, 300 m, sandy hillside, 18 Sep 1938, *Stork, Horton, and Vargas C. 9228* (HOLOTYPE: GH; ISOTYPE: G, K, MO). Figure 1.

Planta fruticosa ad 1 m altitudine; axes juvenes, petioli, pedunculi, pedicelli, facies abaxialis calycis villosa, pilis uniseriatis, non ramosis, erectis, apice glandiferentibus; inflorescentia floribus 10 ut maximum; corolla breviter tubulosa, limbo 16–17 mm diametro, quinque lobis triangularibus, alba, annulo azureo prope extremum tubi; stamina 4.8–7 mm longitudine, filamenta villosa secus proximales 45–60 partes per centum longitudinis; stylus 6.0–7.7 mm longitudine.



HERBARIUM OF THE OHIO STATE UNIVERSITY  
*Jaltomata procumbens* (Cav.) Genry  
 Tilton Davis IV June 1, 1978

*Jaltomata*  
 Determined by Tilton Davis IV  
 Missouri Botanical Garden 1978

UNIVERSITY OF CALIFORNIA  
 Second Botanical Garden Expedition to the Andes, 1928-29  
 Peru, Bolivia, Chile, Ecuador, Argentina  
 No. 9228  
 Director, T. H. Goveas

*Nevada*  
 Peru. Depto. Lima, Prov. Chancay. Lomas of  
 Pativilca, 5 km north of Barranca; sandy  
 hillside. Alt. 300m.  
 Very dense, rounded bush to 0.5m: fl. corolla  
 whitish with purple throat.  
 Sept. 13, 1938

H. S. Stork  
 O. B. Horton  
 C. Vargas O.

Figure 1. *Jaltomata hunzikeri* Mione, in flower, Stork, Horton, and Vargas 9228, (HOLOTYPE: GH). Photo by S. J. H.

Shrub to 1 m high. Young axes, petioles, peduncles, pedicels, and abaxial face of calyx villous, the hairs uniseriate, unbranched (finger-type), erect and gland-tipped. Young axes with raised longitudinal ridges (an artifact of drying?). Older axes to 1.5 cm in diameter, terete and glabrate. Leaves alternate, often geminate, the blades ovate, to  $8 \times 5.5$  cm, with 3–4 pairs of primary veins, the apex acute, the base somewhat truncate and often oblique, the younger blades densely pubescent, the older sparsely pubescent, the margin dentate or erose-dentate or repand and ciliate with gland-tipped hairs 0.12–0.42 mm long; petioles to 3 cm long. Inflorescences axillary or sometimes arising from branch dichotomies, umbellate, to 10-flowered including buds. Peduncle 4–9 mm long; pedicel 8.6–11.3 mm long. Calyx green at anthesis, stellate, the lobes triangular and 4.0–5.9 mm from pedicel to tip, 1.9–3.2 mm from pedicel to sinus, the margin ciliate with finger hairs 0.3–0.6 mm long, abaxially with both finger hairs 0.3–0.8 mm long and glands 55–70  $\mu\text{m}$  long having multicellular heads and unicellular stalks (illustrated in Mione and Serazo 1999); calyx 10 mm in diameter with fruit (mature?). Corolla short-tubular (the tube not evident after pressing, but mentioned by collectors on label), the limb crateriform or broadly infundibular or rotate, 16–17 mm in diameter, white with blue ring near end of tube, with 5 triangular lobes, 6.2–11.0 mm from flower center to tip of corolla lobe, 4.0–7.3 mm from center to sinus, the margin ciliate with finger hairs 0.1–0.5 mm long. Stamens 4.8–7.0 mm long, the filaments villous on proximal 45–60% of the length, the finger hairs 1.0–1.5 mm long; anthers  $1.3\text{--}1.5 \times 0.7\text{--}0.9$  mm, some basally sagittate. Pollen grains (stained 30 minutes in “cotton blue”) 26.25–31.25  $\mu\text{m}$  in diameter (average 28.5  $\mu\text{m}$ ,  $n = 24$ ). Style and ovary glabrous. Style 6.0–7.7 mm long, 0.1–0.2 mm wide at midlength; stigma capitate, not bilobed, 0.24–0.6 mm wide perpendicular to style, exserted 0–1 mm beyond dehisced anthers. Berry (mature?) 5 mm across, and very likely subspherical and orange or red at maturity.

PARATYPE: **Peru**. Dept. LIMA: Prov. Barranca, 5 km north of Barranca, talus slope of hill rising abruptly from low, narrow, coastal plain, 80 m, 5 Sep 1938, *Morrison and Beetle 9099* (GH).

The specimens (the type and paratype) of this species were treated as *Saracha villosa* (Zuccagni) G. Don by Macbride (1962). We do not agree, based on study of: 1) photos of the type

