

A MANUAL
OF THE
HIGHER PLANTS
OF OREGON

BY

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pubescent with hispid hairs above, mostly glabrous below; leaves linear, 3-5 of the lower pairs opposite, these usually glabrous or sparsely ciliate toward the base, 1-2.5 dm. long, the upper gradually reduced upward, pubescent with coarse, somewhat appressed but not strigose, pustulate hairs; racemes mostly geminate, very ferruginous, the pedicels very short; calyx in fruit 5-6 mm. long, very hirsute, the lobes somewhat spreading; corolla 8-14 mm. broad; nutlets ovate, about 2 mm. long, finely warted and rugose, the dorsal ridges tending to be transverse or reticulate, the dorsal keel well defined, the scar rather large and nearly basal.—Boggy ground in the Umpqua Valley (near Drain); very local.

13. *P. figuratus* (Piper) Johnst. FRAGRANT ALLOCARYA. Plant slender to moderately stout, erect, 1.5-4.5 dm. high, the stem simple to freely branched below the inflorescence, densely to rather sparsely strigose; leaves mostly narrowly linear, 6-15 mm. long, appressed-pubescent like the stem, or spreading-ciliate toward the base; some or all of the racemes geminate or occasionally partly ternate, often with flowers in the forks, the pedicels .5-2 mm. long; calyx densely somewhat spreading-villous, strongly or only slightly ferruginous, 3-5 mm. long, the lobes linear-lanceolate and little enlarged in fruit; corolla-tube shorter than the calyx, the limb 4-8 mm. wide; nutlets ovate, 1.5 mm. long or less, transversely rugose and coarsely warted, the dorsal keel often well defined, the scar small and just above the base.—Damp open ground west of the Cascades, to Vancouver Is., Wash. and Calif. (*Allocarya Scouleri* Greene).

14. *P. salsus* (Brandeg.) Johnst. DESERT ALLOCARYA. Stem branched from near the base, erect or somewhat spreading, 8-16 cm. high, glabrate or sparsely weak-bristly; leaves linear or narrowly oblong, 3-6 cm. long, bristly-ciliate and the faces sometimes sparingly bristly; racemes sparsely flowered, leafy-bracted, the flowers subsessile; calyx long-bristly, 4-5 mm. long, the lobes oblong or lanceolate, erect or somewhat spreading in fruit, often acute, the base obpyramidal and strongly ridged; corolla 4-5 mm. broad; nutlets lanceolate, 2-2.5 mm. long, low-rugulose dorsally on the upper half and granulose; scar basal.—Dry ground, southern Malheur and Harney Cos., to Nev. (*Allocarya Cusickii jucunda* Nels. & Macbr.)

15. *P. lamprocarpus* (Piper) Johnst. SHINY-FRUITED ALLOCARYA. Stem simple erect, slender, 1-3 dm. high, strigose; leaves linear, 1-2 cm. long, glabrous above, hispid beneath; racemes one-sided, bracted below, the pedicels very short; fruiting calyx somewhat thickened at base, the segments narrowly lanceolate, erect or ascending, 2 mm. long; corolla very small; nutlet 1 or 2, broadly ovate, 1.5 mm. long, incurved, shining, without minute roughening but dorsally with broad low transverse ridges and irregular prominences, the ventral keel strongly developed, the lower portion in a deep groove.—Grants Pass, Josephine Co.; not otherwise known.

16. *P. granulatus* (Piper) Johnst. OREGON ALLOCARYA. Stem branched from the base, erect to widely spreading, 1-3 dm. high; leaves linear, 2-5 cm. long, strigose or the hairs toward the base somewhat spreading; inflorescence long and loose, occasionally geminate, the tips rusty, some of the lower flowers short-pedicellate; fruiting calyx usually with some spreading bristles, the tube somewhat obpyramidal, the linear lobes moderately spreading or erect, 2-3 mm. long; corolla-tube shorter than the calyx-lobes, the limb 2.5-3 mm. wide; nutlets about 1.5 mm. long, granulate, sharply tuberculate, with a few mostly transverse ridges above, the small scar subbasal, ovate, slightly stipitate.—Damp ground, Willamette Valley to southern Wash. (*Allocarya granulata* Piper).

17. *P. cognatus* (Greene) Johnst. ALLIED ALLOCARYA. Stem slender, usually branched from the base, erect to widely spreading or even