274 CLEOMACEAE

Treatment revised to synonymize Peritoma within Cleomella based on phylogenetic studies.

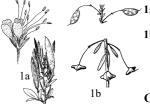
References: Patchell, M.J., E.H. Roalson and J.C. Hall. 2014. Resolved phylogeny of Cleomaceae based on all three genomes. Taxon 63(2): 315–328.

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CLEOMACEAE Spiderflower Family

Fls mostly \mathcal{Q} , often \pm zygomorphic, hypog, gen bracteate-racemose; sepals 4, distinct to \pm connate; petals 4, distinct; stamens (4–)6–32, gen > the petals, often borne on a thickened disclike area; style 1, unlobed; pistil 1(2)-carpellate, 2-locular, gen with short to elongate stipe, but sometimes sessile; fr (ours) a dehiscent 1-celled caps with 2 parietal placentae, but sometimes a schizocarp or nutlet; seeds 1– ∞ ; ann to per herbs (ours), with mostly alt, palmately 3–5-foliolate lvs, often malodorous.

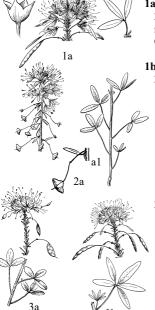


1a Stamens 10–20; fr stipe 0–2 mm; petals with white bl and slender purple claw; pls glandular-pubescent Polanisia

1b Stamens 6; fr stipe 3.5–18 mm; petals with yellow, pink, or purple bl (except albinos), sessile or clawed; pls glab to pilose or glandular-pubescent Cleomella

Cleomella DC. Stinkweed; Spiderflower; Beeplant

Fls radial to slightly zygomorphic, gen bracteate, gen racemose; sepals free or connate in lower half; petals yellow or pink to purplish; stamens 6; fr caps or 2 nutlets, caps gen rhomboidal, occ longer than wide, with valves laterally distended, ours stipitate; seeds 2–40 per capsule, often < 10, or 1(3) per nutlet; ours ann herbs with 3–5-foliolate lvs. (Diminutive of *Cleome*). (*Peritoma*).



- 1a Petals pink to purplish (occ albino), 8–11 mm; sepals connate 1/2–2/3 length; caps 2.5–7 cm, linear-elliptic, glab; lflets 3, mostly 2–6 cm; pl glab to sparsely pilose, mostly 3–15 dm; prairies and plains, dry woodl, roadsides; e Cas, s BC to Que, s to CA, TX, and midwest US; RM b., stinkweed (*P. l.*); native but occ cult and escaping 1 C. serrulata (Pursh) Roalson & J.C. Hall
- 1b Petals yellow; sepals connate 1/2 or less their length; caps glab or pubescent
 - 2a Caps rhomboidal, ca as long as wide, < 11 mm; pls glab, 5–40 cm; lower lf petioles 2–6 cm; lflets 0.8–2.4 cm, ± elliptic; sepals green; petals (3.5–)4–8 mm, oblong; stipe 3.5–15 mm; caps 3.5–6 × 4–10.5 mm; style 1–2 mm; dry alkaline flats and meadows; Lemhi Co, ID, and se OR and sw ID to CA, NV, and UT; 2 vars.
 - C. hillmanii A. Nelson
 - a1 Fr stipe 3.5–6.5 mm, ca = mature caps; fr peds 4.5–10 mm; near Salmon, Lemhi Co, ID, and ne UT (*C. macbrideana*)
 - var. **goodrichii** (S.L. Welsh) P.K. Holmgren > mature caps: fr peds (6.5–)9–17 mm; bordering our area
 - **a2** Fr stipe (6-)7-15 mm, > mature caps; fr peds (6.5-)9-17 mm; bordering our area in se OR and sw ID, s to CA and NV var. **hillmannii**
 - **2b** Caps much longer than wide, terete to \pm compressed, 13–60 mm
 - **3a** Pl glandular-pubescent, 1–7 dm; Iflets 3, ovate to obovate, obtuse, 1–3.5 cm; sepals distinct; caps 13–25 × 8–12 mm, ovate-oblong, compressed, pubescent; sandy to heavy soils, sagebr des; e OR and sw ID to NV and CA; golden s. or c. (*P. p.*) **2 P. platycarpa** (Torr.) H.H. Iltis
 - **3b** Pl glab to glabrate, (3–)5–15 dm; Iflets 3–5, linear-elliptic, ± acute, mostly 2–5 cm; sepals connate ca 1/4–1/2 length; caps 15–40 × 2–5 mm, linear, nearly terete, glab; sandy des and valleys, roadsides; scattered, e WA s to CA, e to MT, NB, and NM; yellow b., yellow s. (*P. l.*) **3 P. lutea** (Hook.) Raf.

BRASSICACEAE 275

Polanisia Raf. Clammyweed

Fls slightly zygomorphic, bracteate and racemose; sepals \pm distinct; petals gen clawed; stamens 8–32; caps sessile or short-stipitate, linear to oblong, terete to \pm compressed, ∞ -seeded; ours ann with 3-foliolate lvs. (Gr *polys*, many or much, and *anisos*, unequal, referring to the unequal stamens).



P. dodecandra (L.) DC. Viscid-pubescent, ill-scented ann 1–8 dm; lflets 1.5–4.5 cm, ovate-elliptic to oblanceolate; peds slender, ascending, 10–25 mm; sepals 3–4 mm, purplish, deciduous; petal bl white, obovate, notched at the tip, narrowed to a slender purple claw; style 5–17 mm; stipe 0–2 mm; caps 2–6 cm, glandular-pubescent; sandy plains and foothills, often in des washes; Wallowa Co, OR, to Lemhi Co, ID, and much of MT, s and e to most of US and s Can (*P. t.*); ours, with petals (6–)8–14(–17) mm and stamens much > corolla, are subsp. **trachysperma** (Torr. & A. Gray) H.H. Iltis.