

**47. NEOMARTINELLA** Pilger in Engler & Prantl, Nat. Pflanzenfam., Nachtr. 3: 134. 1906.

堇叶芥属 jin ye jie shu

*Martinella* H. Léveillé, Bull. Soc. Bot. France 60: 290. 1904, not Cooke & Masee (1889), nor Baillon (1891);  
*Esquirolia* H. Léveillé.

Herbs annual. Trichomes absent. Stems few to several from basal rosette, simple, leafy or leafless. Basal leaves long petiolate, rosulate, simple, palmately veined, margin crenate-repand or rarely subentire, with distinct apiculate callosities that terminate ultimate veins and occupy marginal notches. Cauline leaves absent or similar to basal. Racemes ebracteate, elongated in fruit. Fruiting pedicels slender, erect or divaricate. Sepals ovate or rarely oblong, spreading, base of lateral pair not saccate. Petals white, spreading; blade obcordate, apex emarginate; claw absent. Stamens 6, spreading, subequal in length; filaments strongly dilated at base; anthers ovate, obtuse at apex. Nectar glands confluent, subtending bases of all stamens; median glands present. Ovules 10–40 per ovary. Fruit dehiscent siliques, linear or oblong, terete or rarely slightly latiseptate, sessile; valves papery, with an obscure midvein, torulose; replum rounded; septum complete, membranous, translucent, veinless; style absent or distinct and to 1 mm, cylindrical or clavate; stigma capitate, entire. Seeds uniseriate, wingless, oblong or orbicular, slightly flattened; seed coat minutely reticulate, not mucilaginous when wetted; cotyledons accumbent.

• Three species.

- 1a. Stems leafy; style clavate ..... 1. *N. yungshunensis*
- 1b. Stems leafless; style absent or cylindrical.
  - 2a. Style absent or rarely to 0.2 mm; sepals 1.5–2 mm; petals 4–5.5 mm; ovules 10–20 per ovary; fruit oblong-linear or oblong, 5–12 mm; at least some flowers on solitary pedicels ..... 2. *N. violifolia*
  - 2b. Style cylindrical, to 1 mm; sepals ca. 3.5 mm; petals ca. 8 mm; ovules 30–40 per ovary; fruit linear, young ones longer; flowers in racemes ..... 3. *N. grandiflora*

**1. *Neomartinella yungshunensis*** (W. T. Wang) Al-Shehbaz, Novon 10: 338. 2000.

永顺堇叶芥 yong shun jin ye jie

*Cardamine yungshunensis* W. T. Wang, Keys Vascular Pl. Wuling Mts. 578. 1995.

Herbs 20–41 cm tall. Stems erect, simple, leafy, few to several from base. Basal leaves rosulate; petiole 3–11 cm; leaf blade ovate or broadly so, 2–6 × 1–5 cm, base subcordate or truncate, margin repand, with apiculate callosities to 0.5 mm, apex rounded or obtuse. Middle cauline leaves similar to basal but smaller, often subentire. Inflorescence lax raceme, ebracteate. Fruiting pedicels ascending, filiform, 1–2 cm. Sepals ovate, 1.5–2 × 1–1.2 mm. Petals white, obcordate, 4–5 × 2–2.5 mm. Filaments white, 1.5–2 mm; anthers ovate, 0.6–0.8 mm. Ovules (20–)30–40 per ovary. Fruit linear, (0.8–)1.5–3.5 × 1–1.5 mm, terete, torulose; valves with an obscure midvein; style 0.6–1 mm. Seeds oblong, slightly flattened, 0.8–1.1 × 0.6–0.7 mm. Fl. Apr, fr. May.

• 500–600 m. Hunan.

**2. *Neomartinella violifolia*** (H. Léveillé) Pilger in Engler & Prantl, Nat. Pflanzenfam., Nachtr. 3: 134. 1906.

堇叶芥 jin ye jie

*Martinella violifolia* H. Léveillé, Bull. Soc. Bot. France 60: 290. 1904; *Esquirolia violifolia* (H. Léveillé) H. Léveillé.

Herbs (4–)7–17(–20) cm tall, scapose. Stems erect, simple, leafless, few to several from base. Basal leaves

rosulate; petiole (1.5–)3–10(–14) cm; leaf blade cordate, reniform, or suborbicular, (0.8–)1.5–4(–5) × (0.6–)1–3.5(–4) cm, base cordate, margin crenate-repand or rarely subentire, with apiculate callosities to 1 mm, apex rounded or obtuse. Cauline leaves absent. Fruiting pedicels suberect or spreading, filiform, (1–)1.5–4(–7) cm, a few solitary and originate from center of rosette. Sepals ovate, 1.5–2 × 1–1.2 mm. Petals white, obcordate, 4–5.5 × 2–3 mm. Filaments white, 1.5–2 mm; anthers ovate, 0.4–0.5 mm. Ovules 10–20 per ovary. Fruit oblong-linear to oblong, 5–12 × 1–1.5 mm, slightly compressed, subtorulose; valves with an obscure midvein; style absent or rarely to 0.2 mm. Seeds suborbicular, slightly flattened, 0.6–0.9 mm in diam. Fl. Feb–Apr, fr. Mar–May.

• Rocky areas; 800–1600 m. Guizhou, Hubei, Hunan, Sichuan, Yunnan.

**3. *Neomartinella grandiflora*** Al-Shehbaz, Novon 10: 339. 2000.

大花堇叶芥 da hua jin ye jie

Herbs ca. 15 cm tall, scapose. Stems erect, simple, leafless, few from base. Basal leaves rosulate; petiole 4–12 cm; leaf blade broadly ovate or suborbicular, 2–6 × 1.5–3.5 cm, base subcordate or subtruncate, margin crenate-repand, with apiculate callosities to 0.5 mm, apex rounded. Cauline leaves absent. Fruiting pedicels suberect or ascending, 1–1.5 cm, all on raceme. Sepals oblong, ca. 3.5 × 1.5 mm. Petals white, narrowly obcordate, ca. 8 × 3 mm. Filaments white, ca. 3.5 mm; anthers ovate, ca. 0.6 mm. Ovules 30–40 per ovary.

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Immature fruit linear, ca. 2 cm × 1 mm, subtorulose;  
style slender, 1–1.2 mm. Mature seeds not seen. Fl. Apr.

- Damp places by streamsides; about 600 m. Hunan, Sichuan.

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