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紫堇科二新种

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摘要: 该文描述了紫堇科二新种:(1)自云南省发现的紫堇科紫堇属一新种,宽鳞紫堇。此新种与波密紫堇相近似,与后者的区别在于本新种的根状茎鳞片半透明,具三条脉,茎无叶,外花瓣无鸡冠状突起,雄蕊束具2花药,花丝条形,无脉,子房宽条形。(2)自黑龙江省发现的紫堇科紫堇属一新种,鹤岗延胡索。此种与新疆元胡相似,但本种叶的小叶多在顶端,具1~5牙齿,花序苞片有3~5小裂片,上花瓣及其瓣片和距均较小,蜜腺呈狭卵球形,弯曲,顶端尖锐而与新疆元胡相区别。

关键词: 紫堇科, 紫堇属, 新种, 中国

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Two new species of Fumariaceae

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Abstract: Two new species of Fumariaceae are described in this paper: (1) A species of the genus *Corydalis* (Fumariaceae), *C. latilepidota*, is described as new from Yunnan Province. It is related to *C. pseudoadoxa* C. Y. Wu & H. Chuang, differing in its semi-hyaline, trinerved scales of rhizome, leafless stem, uncrested outer petals, stamen bundle with two anthers, linear and nerveless filament, and broadly linear ovary. (2) A species of the genus *Corydalis* (Fumariaceae), *C. hegansensis*, is described as new from Heilongjiang Province. It is similar to *C. glaucescens* Regel, differing in its usually apically 1-5-dentate leaflets, 3-5-lobulate bracts, smaller upper petal with shorter limb and shorter spur, and narrowly and curvedly ovoid nectary.

Key words: Fumariaceae, *Corydalis*, new species, China

宽鳞紫堇 图 1

Fig. 1.

Corydalis latilepidota W. T. Wang, sp. nov.

(sect. *Fusifformes* C. Y. Wu & H. Chuang)

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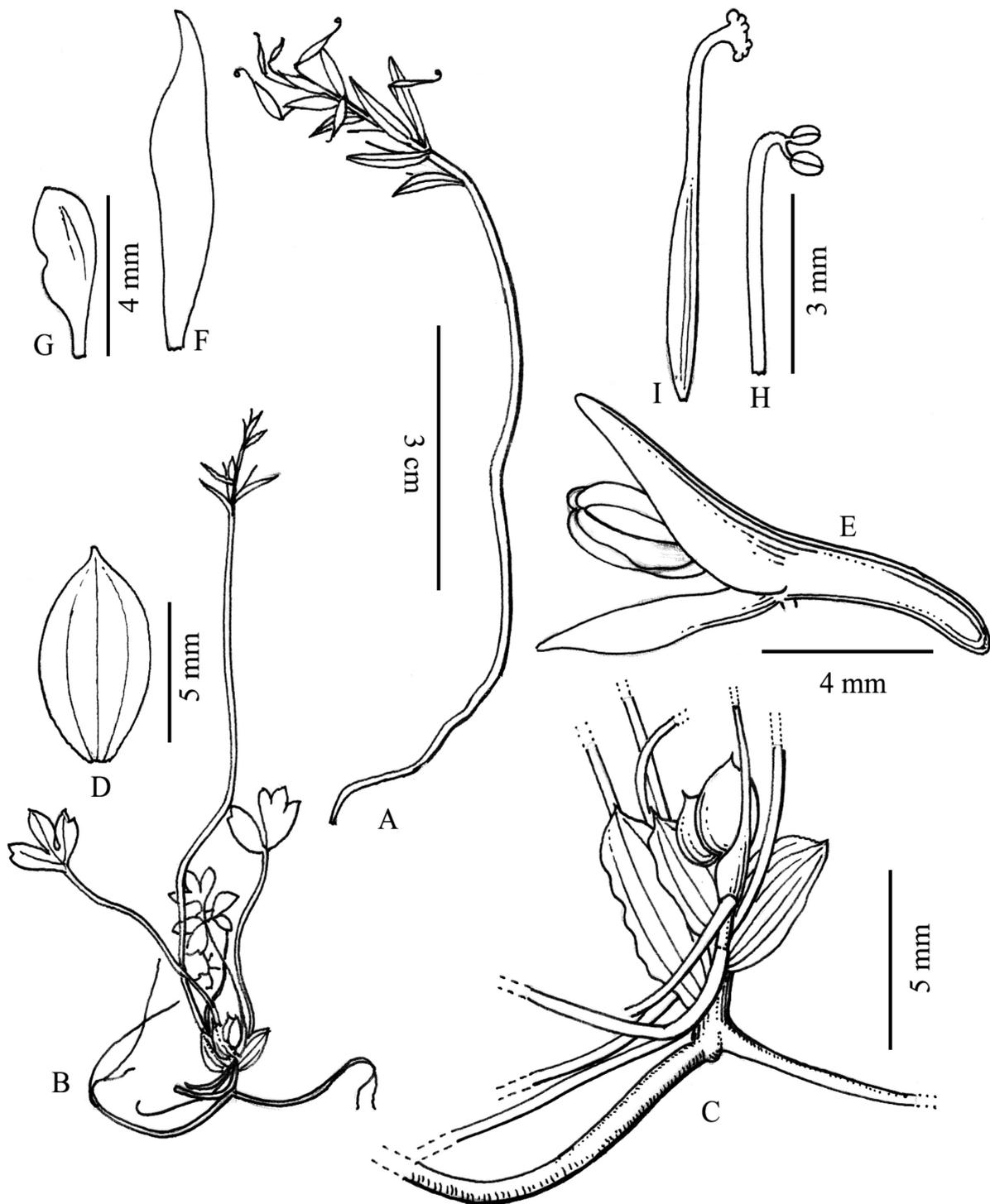


图 1 宽鳞紫堇 A. 结果茎; B. 结果植株; C. B 图的下部(放大); D. 鳞片; E. 花; F. 下花瓣; G. 内花瓣; H. 雄蕊束; I. 雌蕊。

Fig. 1 *Corydalis latilepidota* A. Fruiting stem; B. Fruiting plant; C. Lower part of B; D. Scale;

E. Flower; F. Lower petal; G. Inner petal; H. Stamen bundle; I. Pistil.

Obherbas perennes parvas glabras, rhizoma breve apice squamis aliquot praeditum, folia ternata, bracteas

plerumque lanceolato-lineares integras, petala caerulea, petali superni calcar tubulare limbo subaequilongum

species nova haec est affinis *C. pseudoadoxae* C. Y. Wu & H. Chuang, a qua rhizomatis squamis semi-hyalinis et longitudinaliter trinerviis, caule foliis carente, petalis externis dorso haud cristatis, fasciculo stamineo antheris duabus praedito, filamento lineari et nervis carente, ovario late lineari praeclare differt. In *C. pseudoadoxae*, rhizomatis squamae haud semi-hyalinae et nervis carentes, caulis plerumque 1-foliatus, petala externa dorso cristata, fasciculus stamineus antheris tribus praeditus, filamentum anguste ovatum et longitudinaliter trinerve, et ovarium ovatum est.

Small perennial, glabrous herbs. Rhizome very short, inconspicuous, with ca. 6 terete fibrous roots 0.6–2.5 cm long, 0.2 mm in diam., and on apex with ca. 4 scales and 2 bulbils; scales semi-hyaline, orbicular-elliptic, 6.8×4 mm, longitudinally trinerved, apex shortly and thickly apiculate, margin entire; bulbils white, broadly ovoid, ca. 3×2 mm, smooth, apex caudate-cuspidate. Basal leaf possibly singular, ternate, long(?) petiolate; blade papery, broadly ovate, ca. 6×7.5 mm, central leaflet shortly petioluate, subflabellate, ca. 4×6.5 mm, 3-parted, with lobes narrowly obovate, lateral leaflets sessile, obliquely broadly obovate, unequally 2-parted. Scapes ca. 2, 6–8.5 cm tall, 0.5–1 mm in diam., simple. Raceme terminal, 1–2.5 cm long, densely 3–8-flowered; bracts sessile, the lowermost one nearly to base 2-parted or undivided, others all undivided, linear or lanceolate-linear, rarely long elliptic, $6–10 \times 0.2–1$ (–3) mm, margin entire; pedicels slender, 6–10 mm long. Flower: Sepals caducous, unknown. Petals blue, not crested, margin entire; upper petal ca. 11 mm long, with limb navicular-ovate, 6.5×2.6 mm, at apex acute, and with spur tubular, 6.2×1.2 mm; lower petal unregularly oblong, ca. 8×2 mm, at both ends attenuate; inner petals with limb elliptic, ca. 3.6×1.8 mm, below the middle of lower margin constricted, dark-blue on upper part, abaxially longitudinally 1-ribbed, and with white claw ca. 1 mm long. Stamen bundle ca. 4 mm long; filament white, linear, ca. 3×0.3 mm, without nerves; anthers 2, yellowish, broadly oblong, ca. 0.5 mm long. Nectar filiform, straight, ca. 3.5 mm long. Pistil ca. 6 mm

long; ovary green, broadly linear, ca. 3.2×0.7 mm; style 2.6 mm long; stigma lunulate, ca. 1 mm broad, with 4 papillae. Young capsule broadly linear, ca. 6×1.2 mm, with persistent style ca. 3.5 mm long.

云南 (Yunnan): 德钦县, 永中村 (Deqin Xian, Yongzhong Cun), alt. 4 150–4 400 m, 灌丛草甸 (on scrub-meadow), 1981-08-24, 中国科学院植物研究所横断山队 (Hengduan Mountain Exped. from Inst. of Botany, CAS) 3557 (holotype, PE)。

本种为多年生无毛小草本植物, 根状茎很短, 在顶端具数枚鳞片, 叶为三出复叶, 花序苞片多呈披针状条形, 全缘, 花瓣蓝色, 上花瓣之距呈桶状, 与上花瓣瓣片近等长, 因此与也具有上述诸特征的波密紫堇 (*Corydalis pseudoadoxae* C. Y. Wu & H. Chuang) 在亲缘关系上相接近, 与后者的区别在于本种的根状茎鳞片半透明, 具 3 条纵脉, 茎无叶, 外花瓣背面无鸡冠状突起, 雄蕊束具 2 枚花药, 花丝呈条形, 无脉, 子房呈宽条形。在波密紫堇, 根状茎鳞片不半透明, 无脉, 茎多具 1 叶, 外花瓣背面具鸡冠状突起, 雄蕊束具 3 枚花药, 花丝呈狭卵形, 并具 3 条纵脉, 子房呈狭卵形 (Zhang et al, 2008)。

鹤岗延胡索 图 2

Corydalis hegangensis W. T. Wang, sp. nov.
Fig. 2.

(sect. *Corydalis*)

Ob plantam tubere globoso praeditam, caulem supra basin folio squamiformi unico praeditum, folia biternata, nectarem brevissimum 1–1.5 mm longum species nova haec est similis *C. glaucescenti* Regel, a qua foliolis plerumque apice 1–5-dentatis, racemi bracteis 3–5-lobulatis, petalo supero minore 18 mm longo cum limbo 11 mm longo et calcar 7 mm longo, nectare anguste et curvate ovoideo apice acuto differt. In *C. glaucescente*, foliola plerumque 3-fida vel 3-partita, racemi bractee indivisae, petalum superum majus 20–50 mm longum cum limbo 10–11 mm longo et calcar 10–14 mm longo, et nectar filioforme rectum apice obtusum est.

Herbs perennial, glabrous, tuber-bearing. Tuber globose, ca. 1.8 cm in diam. Stem ca. 12 cm tall, below scale-like leaf downwards thinning, with one scale-like leaf and three true leaves, from axil of the scale-like leaf

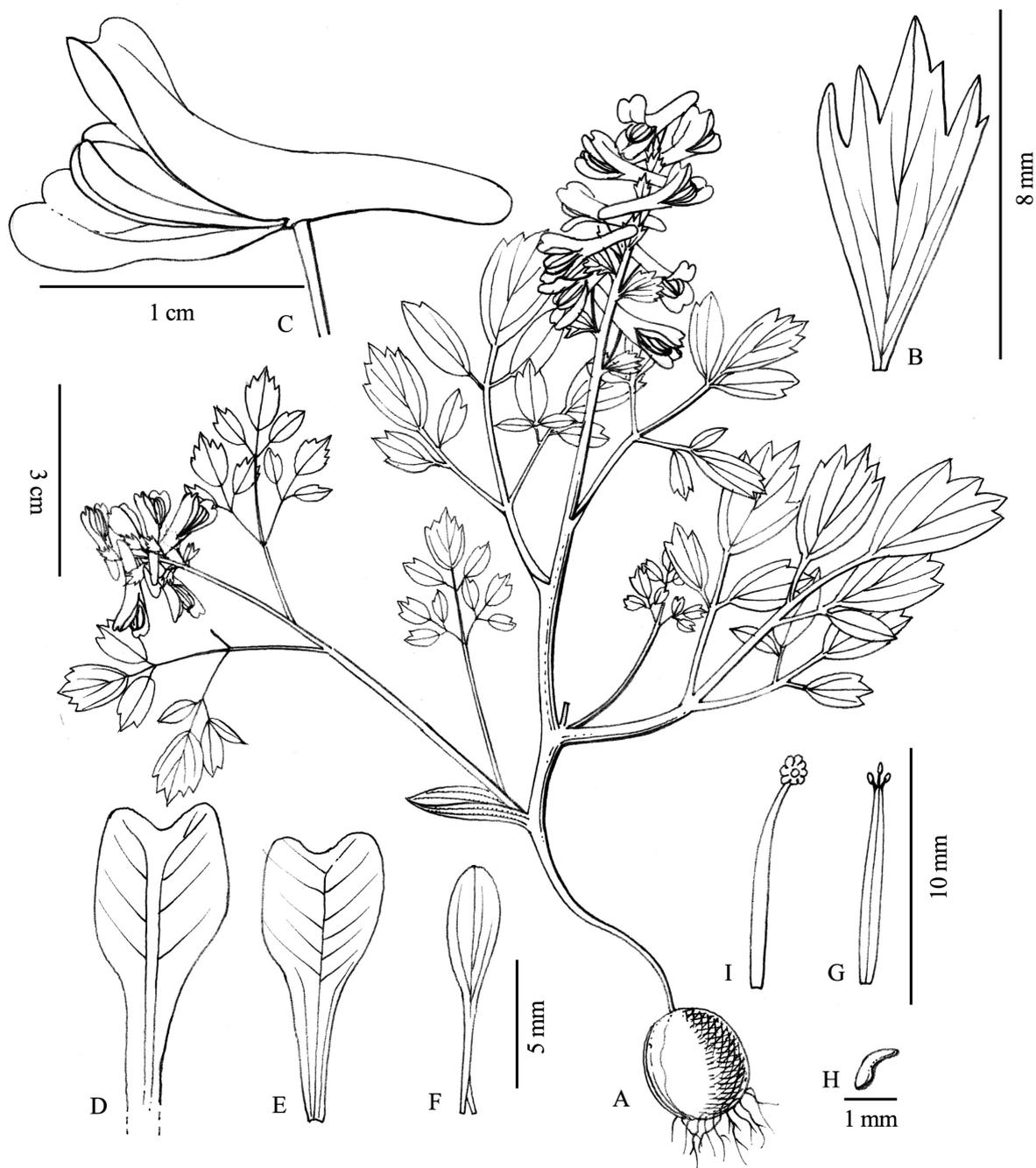


图 2 鹤岗延胡索 A. 植株全形; B. 苞片; C. 花; D. 上花瓣瓣片; E. 下花瓣; F. 内花瓣;
G. 雄蕊束; H. 蜜腺; I. 雌蕊。(来自模式标本)

Fig. 2 *Corydalis hegagensis* A. Habit; B. Bract; C. Flower; D. Limb of upper petal; E. Lower petal;
F. Inner petals; G. Stamen bundle; H. Nectary; I. Pistil. (from holotype)

with one flowering branch ca. 8 cm long. Scale-like leaf papery, narrowly ovate, ca. 2×0.85 cm, apex slightly acute, margin entire. Leaves bi-ternate, petiolate; blade broadly rhombic in outline, $3-6 \times 3.2-4.5$ cm; leaflets

long or shortly petiolulate, rarely sessile, obovate or cuneate-obovate, rarely elliptic, $0.64-2.4 \times 0.25-1.3$ cm, apex subtruncate and 1-5-dentate, rarely acute and entire, base cuneate, with petiolules 0.1-1.8 cm long;

petioles 1.2–2 cm long. Racemes terminal, that of stem 3.5 cm long, densely 8-flowered, that of branch 1 cm long, densely 4-flowered; bracts cuneate-obovate or broadly rhombic, 6–11 × 3–4.5 mm, apex with 3–5 narrowly triangular or linear lobules unequal in size; pedicels (2-) 4–7 mm long. Flower: Sepals caducous, unknown. Petals purple (?), not crested; upper petal ca. 18 mm long, with limb obtuse-trapeziform, 11 × 5 mm, at apex subtruncate and retuse, and spur tubular, ca. 7 mm long, 1.8–2 mm in diam., straight; lower petal similar to upper petal both in shape and size, above base slightly saccate; inner petals ca. 11 mm long, with limbs coherent apically, narrowly elliptic-obovate, 6 × 2.2 mm, and claws slender, ca. 5 mm long. Stamens with filaments thinly membranous, lanceolate-linear, ca. 8 × 0.8 mm, longitudinally 1-nerved and anthers yellowish, narrowly oblong, 0.6–0.8 mm long. Nectary black, narrowly ovoid, ca. 1.2 mm long, slightly curved, at apex acute. Pistil 8–9.5 mm long; ovary green, linear, 5–5.5 × 0.5–0.7 mm; style ca. 2.5 mm long; stigma orbicular, ca. 1.2 mm in diam., with 8 dense yellowish subglobose tubercles. Capsule unknown.

黑龙江 (**Heilongjiang**): 鹤岗市, 鹤北 (Hegang Shi, Hebei), 鹤北林业局, 北影场, 河岸草地 (Hebei Forestry Bureau, Beiyingchang, in grassy place on

river bank), 1995-07-15, 东北林学院植物调查队 (Pl. Exped. from N.-E Forest. Inst.) 9531023 (**holotype**, PE)。

本种的植株具球形块茎, 茎基部之上具一鳞片状叶, 蜜腺极短, 长在 1~1.5 mm 之间, 因此与也具有上述形态特征的新疆元胡 (*Corydalis glaucescens* Regel) 相似, 与后者的区别在于本种叶的小叶多在顶端具 1~5 枚牙齿, 花序苞片顶端有 3~5 枚小裂片, 上花瓣较小, 长 18 mm, 其瓣片长 11 mm, 其距长 7 mm, 蜜腺狭卵球形, 弯曲, 顶端尖锐。在新疆元胡, 叶的小叶多为三中裂或三深裂, 花序苞片不分裂, 上花瓣较大, 长 20~25 mm, 其瓣片长 10~11 mm, 其距长 10~14 mm, 蜜腺呈丝形, 直, 顶端钝 (吴征镒等, 1999)。

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