

圆盔乌头, 陕西毛茛科一新种

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摘要: 描述了自陕西省发现的毛茛科乌头属一新种, 圆盔乌头 (*Aconitum rotundocassideum*)。由于具有相似的体态和盔形上萼片, 此种与特产云南省的粗茎乌头在亲缘上很相近, 与后者的区别特征见正文。

关键词: 毛茛科; 乌头属; 新种; 陕西

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Aconitum rotundocassideum, a New Species of Ranunculaceae from Shaanxi

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Abstract: A new species of the genus *Aconitum* (Ranunculaceae), *Aconitum rotundocassideum*, is described here from Shaanxi Province. Having similar habit and galeiform upper sepals, this species is closely related to *A. crassicaule* W. T. Wang endemic to Gongshan County, Yunnan Province, though the latter differs by its flower arrangement in a panicle with three small 3-flowered racemes, usually arcuate pedicels, smaller rounded-galeiform or subglobose, conspicuously nerved, not beaked upper sepal and smaller lateral sepals, and 2-denticulate stamen filaments.

Key words: Ranunculaceae; *Aconitum*; New species; Shaanxi

圆盔乌头 新种(图 1)

Aconitum rotundocassideum W. T. Wang, sp. nov. Fig. 1 (Sect. *Aconitum* Ser. *Volubilia* Steinb.)

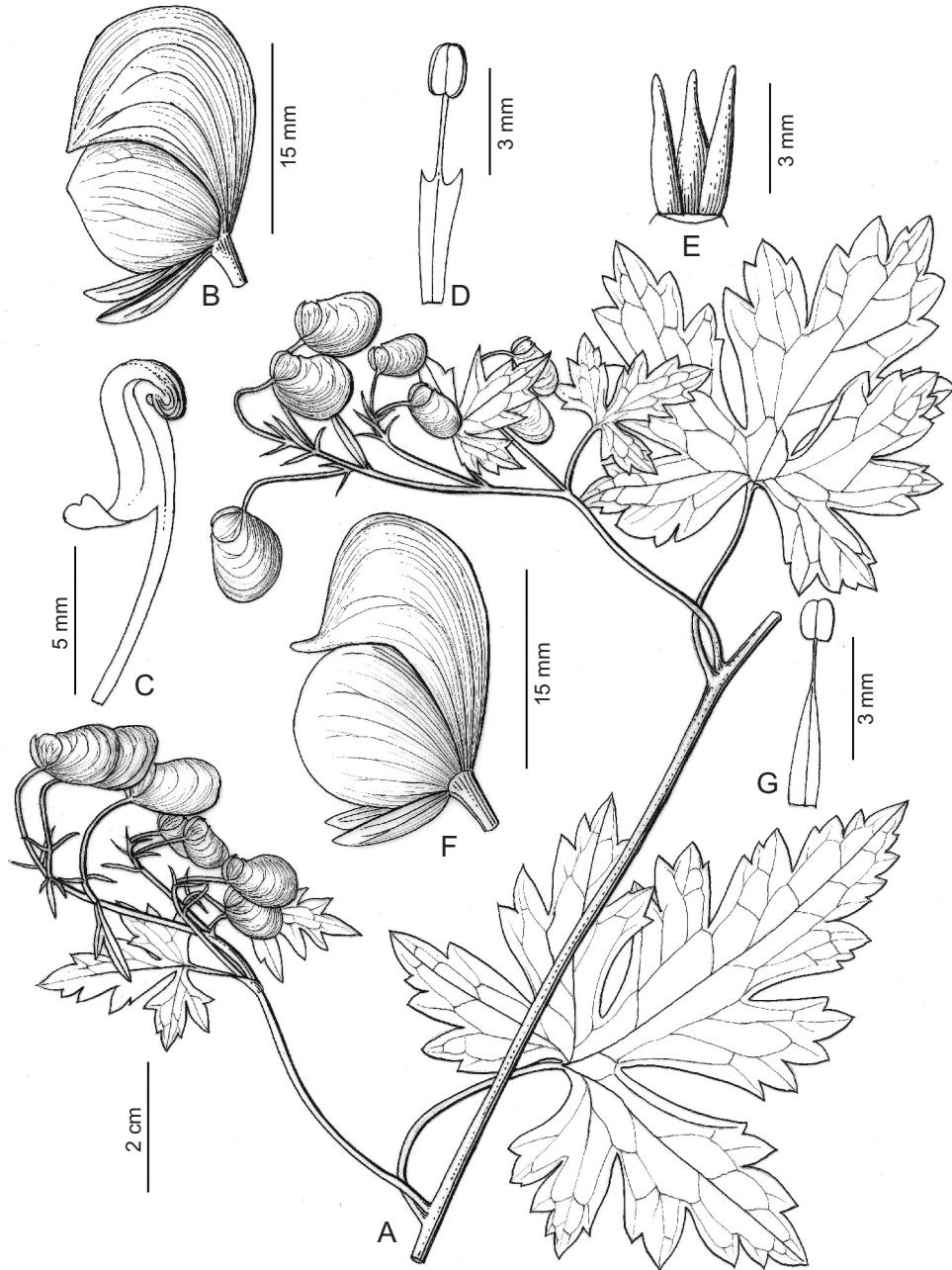
Ob habitum et sepalum superum galeiformem species nova haec est arcte affinis *A. crassicauli* W. T. Wang endemico in Gongshan, Provinciae Yunnan, quod floribus 5–10 in racemum dispositis, pedicellis rectis haud arcuatis, sepalo supero majore naviculari-galeiformi ca. 2 cm alto obscuro-nervi et conspicue rostrato, ejus margine infero ca. 1.6 cm longo, sepalis lateribus majoribus 1.5 cm longis 1.2 cm latis, sta-

minum filamentis haud 2-denticulatis facile differt. Habitu ea est etiam similis *A. hemsleyano* Pritz., quod floribus majoribus vulgo 2–6 in racemum dispositis, sepalo supero majore alte galeiformi 2–2.4 cm alto apice rotundato praecclare recedit.

Tubers obconic, ca. 1.5 cm long, 1 cm in diam. Stem twining, near base ca. 9 mm in diam., subglabrous, many-branched; branches slender, 30–45 cm long, ca. 2 mm in diam., sparsely appressed-puberulous, often purple-tinged. Leaves petiolate; blades papery, pentagonal, 4.5–6.8 cm long, 6.5–8 cm broad, at base cordate, to 5–7 mm above base

3-parted, central lobe rhombic, 2.8–4 cm broad, at apex acuminate, 3-fid, with margins incised-denticulate, lateral lobes obliquely broad-flabellate, unequally 2-fid; surfaces adaxially and abaxially sparsely appressed-puberulous; petioles 2.5–3.5 cm long, with peduncles retrorsely ap-

pressed-puberulous. Panicles axillary, ca. 8 cm long, usually consisting of 3 small racemes; peduncles 3.5–5 cm long; rachises glabrous; bracts foliaceous. Racemes 2–4 cm long, usually 3-flowered; bracts linear, 0.6–1.5 cm long, unequally 2-fid or undivided; pedicel slender,



A. 开花枝一部分; B. 花; C. 花瓣; D. 雄蕊; E. 雌蕊群, 由3心皮组成; F. 花; G. 雄蕊。

A. Part of flowering branch; B. Flower; C. Petal; D. Stamen; E. Gynoecium, consisting of three carpels (from holotype); F. Flower; G. Stamen. (K. M. Feng 6957)

图1 圆盔乌头(A~E)和粗茎乌头(F, G)

Fig. 1 *Aconitum rotundocassideum* (A-E) and *A. crassicaule* (F, G)

usually arcuate, 0.5–1.5 cm long, glabrous, near base 2-bracteolate; bracteoles narrow-linear, 3–5 mm long, glabrous. Sepals red, abaxially sparsely appressed-puberulous, conspicuously longitudinally nerved; upper sepal rounded-galeiform or subglobose, ca. 1.7 cm high, at apex truncate-rounded, shortly clawed, not beaked, adaxially glabrous, lower margin ca. 1.1 cm long, slightly concave; lateral sepals obliquely broad-obovate, ca. 1 cm long, 9 mm broad, adaxially sparsely and shortly sericeous, ciliate; lower sepals oblong-navicular, ca. 9 mm long, 2.2 mm broad, adaxially sparsely puberulous. Petals glabrous; claws ca. 8 mm long; limbs 7 mm long; lips 3.5 mm long, near apex reflexed, at apex emarginate; spurs incurved, 2 mm long. Stamens glabrous; filaments ca. 3.5 mm long, below winged, and 2-denticulate; anthers ca. 1 mm long. Carpels 3, ca. 3.5 mm long, glabrous.

块根倒圆锥形，长约1.5 cm，直径1 cm。茎缠绕，近基部直径约9 mm，近无毛，多分枝；枝纤细，长30~45 cm，直径约2 mm，疏被贴伏短柔毛，常带紫色。叶具柄；叶片纸质，五角形，长4.5~6.8 cm，宽6.5~8 cm，基部心形，3深裂至距基部5~7 cm处，中央裂片菱形，宽2.8~4 cm，顶端渐尖，3中裂，边缘具缺刻和小牙齿，侧裂片斜宽扇形，不等2中裂，两面疏被贴伏短柔毛；叶柄长2.5~3.5 cm，与花序梗均被反曲短柔毛。圆锥花序腋生，长约8 cm，通常具3小总状花序；花序梗长3.5~5 cm；轴无毛；苞片叶状。总状花序长2~4 cm，通常具3朵花；苞片条形，长0.6~1.5 cm，不等2中裂或不分裂；花梗纤细，通常弓状弯曲，长0.5~1.5 cm，无毛，近基部具2小苞片；小苞片狭条形，长3~5 mm，无毛。萼片红色，外面疏被贴伏短柔毛，有明显纵脉；上萼片圆盔形或近球形，高约1.7 cm，顶端

截状圆形，具短爪，内面无毛，下缘长约1.1 cm，稍凹；侧萼片斜宽倒卵形，长约1 cm，宽9 mm，内面疏被短绢毛，还具缘毛；下萼片长圆状船形，长约9 mm，宽2.2 mm，内面疏被短柔毛。花瓣无毛；爪长约8 mm；瓣片长7 mm；唇长3.5 mm，近顶端反折，顶端微凹；距向内弯曲，长2 mm。雄蕊无毛；花丝长约3.5 mm，下部具翅，并具2小齿；花药长约1 mm。心皮3，长约3.5 mm，无毛。

陕西(Shaanxi)：周至 Zhouzhi County, Houzhizi, south slope of Taibai Shan, alt. 2700 m, in forests, herb perennial, fls. red, 1999–09–10, Zhu, Chen, Xu & Wang no. 1992 (holotype, PE).

由于具有相似的体态和盔形上萼片，本种与特产云南贡山的粗茎乌头 *Aconitum crassicaule* W. T. Wang 在亲缘关系上很相近，与后者的区别在于本种的花组成由3个具3花的小总状花序形成的圆锥花序，花梗通常弓状弯曲，上萼片较小，呈圆盔形或近球形，具明显脉，无喙，其下缘长约1.1 cm，侧萼片较小，长1 cm，宽9 mm，雄蕊花丝具2小齿。粗茎乌头，花5~10朵组成总状花序，花梗直，上萼片较大，船状盔形，高约2 cm，有不明显脉和明显的喙，其下缘长1.6 cm，侧萼片也较大，长1.5 cm，宽1.2 cm，雄蕊花丝不具2小齿。在体态方面本种与瓜叶乌头 *A. hemsleyanum* Pritz. 相似，但本种的花较小，组成圆锥花序，上萼片较小，圆盔形，高约1.7 cm，顶端截状圆形而与后者相区别。瓜叶乌头，花较大，通常2~6朵组成总状花序，上萼片较大，高盔形，高2~2.4 cm，顶端圆形^[1]。

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