

# 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 lateralibus 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 praeclare recedit.

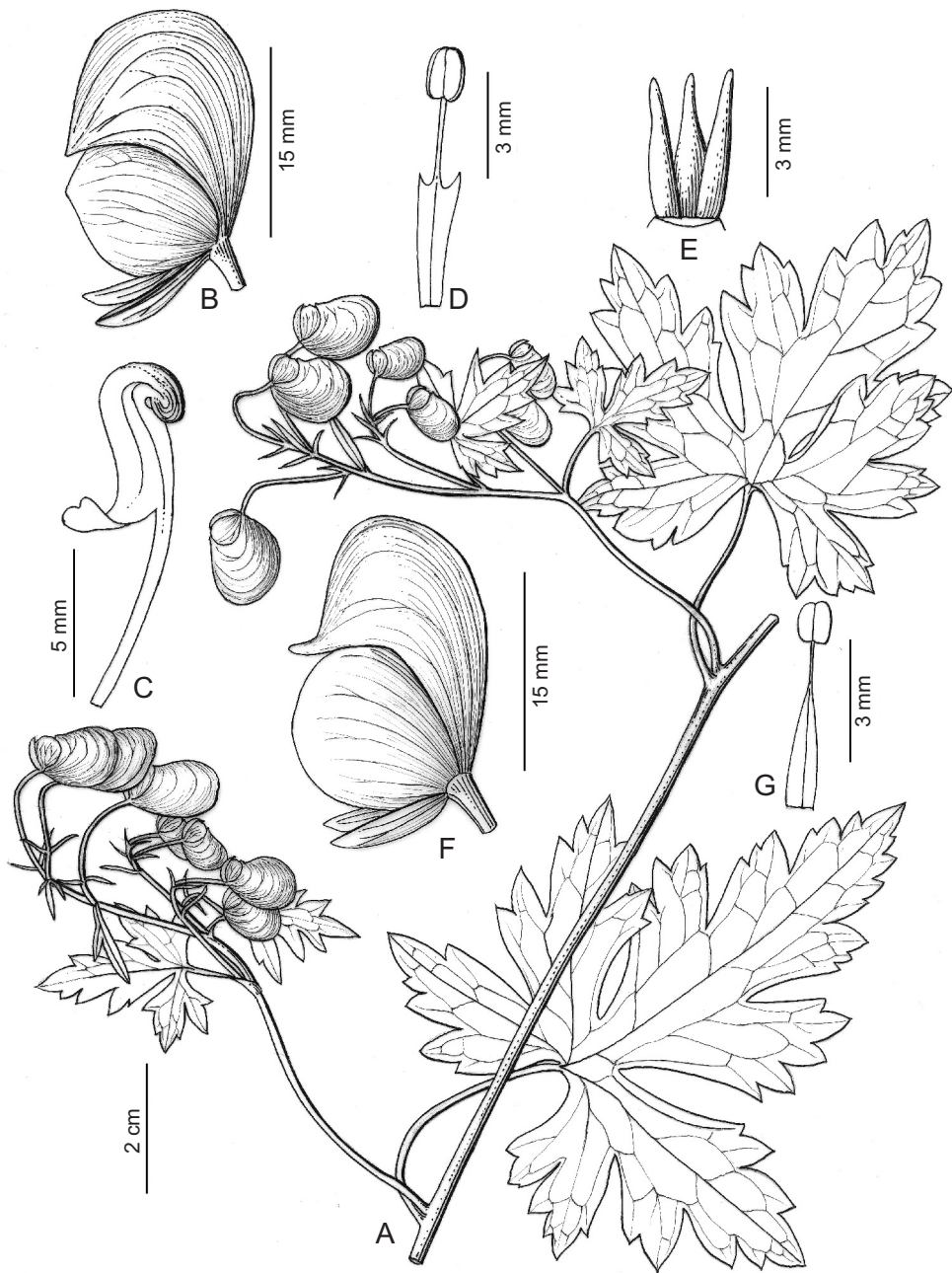
Tubers obconic, ca. 1.5 cm long, 1 cm in diam. Stem twining, near base ca. 9 mm in diam., subglabrous, many-branched; branches slender, 30–45 cm long, ca. 2 mm in diam., sparsely appressed-puberulous, often purple-tinged. Leaves petiolate; blades papery, pentagonal, 4.5–6.8 cm long, 6.5–8 cm broad, at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

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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. hemslayanum* 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<sup>[1]</sup>。

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