

甘肃乌头属二新种

王文采

(中国科学院植物研究所系统与进化植物学国家重点实验室, 北京 100093)

摘要 描述了自甘肃发现的毛茛科乌头属二新种, 合作乌头和莲花山乌头, 并分别给出二种与其等近缘种的形态区别特征。

关键词 毛茛科; 乌头属; 新种; 甘肃

中图分类号: Q949.746.5 文献标志码: A doi: 10.7525/j.issn.1673-5102.2015.04.001

Two New Species of the Genus *Aconitum* (Ranunculaceae) from Gansu

WANG Wen-Tsai

(State Key Laboratory of Systematic and Evolutionary Botany, Chinese Academy of Sciences, Beijing 100093)

Abstract Two species of the genus *Aconitum* (Ranunculaceae), *Aconitum hezuense* and *A. lianhuashanicum*, are described as new from Gansu Province. The morphological differences between them and their allies are given respectively.

Key words Ranunculaceae; *Aconitum*; new species; Gansu

合作乌头 图 1: A - D

Aconitum hezuense W. T. Wang, sp. nov.

Fig. 1: A - D

(Sect. *Aconitum* ser. *Brachypoda* W. T. Wang)

Ob folia dissecta, sepala flavida extus glabra et sepalum superum naviculare species nova haec est affinis *A. chilienshanico* W. T. Wang, quod caulibus racemi rhachidi pedicellis et petalis glabris, bracteolis linearibus indivisis, sepalo supero minore 1.5 - 1.9 cm longo, sepalis lateralibus et inferis glabris, gynoecio ex carpellis tribus constante statim differt.

Tubers unknown. Stem ca. 68 cm tall, at base 3 mm across, above appressed-puberulous, below subglabrous, simple. Leaves all cauline, middle leaves dense, shortly petiolate, upper leaves diminished in size, and between themselves separate, subsessile or sessile, glabrous; blades coriaceous, pentagonal in outline, 1.5 - 4 × 2.4 - 6.5 cm, 3-sect, segments 1 - 3 times dissected, ultimate lobes linear

or narrowly linear, 1 - 2.5 mm broad, apex slightly acute, margin entire; petioles up to 4 mm long. Raceme terminal, ca. 8 cm long, 9-flowered; lower bracts foliaceous, with vagina-shaped petioles, the other bracts smaller, sessile, 3-lobed; rachis with pedicels appressed-puberulous; pedicels 2 - 11 mm long, near apex 2-bracteolate; bracteoles narrowly obovate, 4 - 8 mm long, glabrous, 3-lobed, lobes ovate-linear. Sepals 5, yellowish, abaxially glabrous; upper sepal obliquely navicular, 1.6 - 2.2 cm long, at the middle 4 - 8 mm broad, adaxially glabrous; lateral sepals broadly obovate, 1.4 - 1.7 × 0.9 - 1.1 cm, adaxially sparsely puberulous; lower sepals obliquely long elliptic, 0.9 - 1.1 × 0.24 - 0.5 cm, adaxially sparsely puberulous. Petals 2, pilose; claws robust, 1.8 - 2 cm long; limbs ca. 5 mm long, spurs small, 1 mm long, lips 3 mm long, at apex 2-lobed. Stamens numerous, glabrous; filaments 4 - 6 mm long, below linear, 1-nerved, above filiform; anthers broadly oblong, 0.8 - 1 mm long.

作者简介: 王文采(1926—), 男, 研究员, 中国科学院院士, 从事有花植物分类学研究。

收稿日期: 2014 - 05 - 23

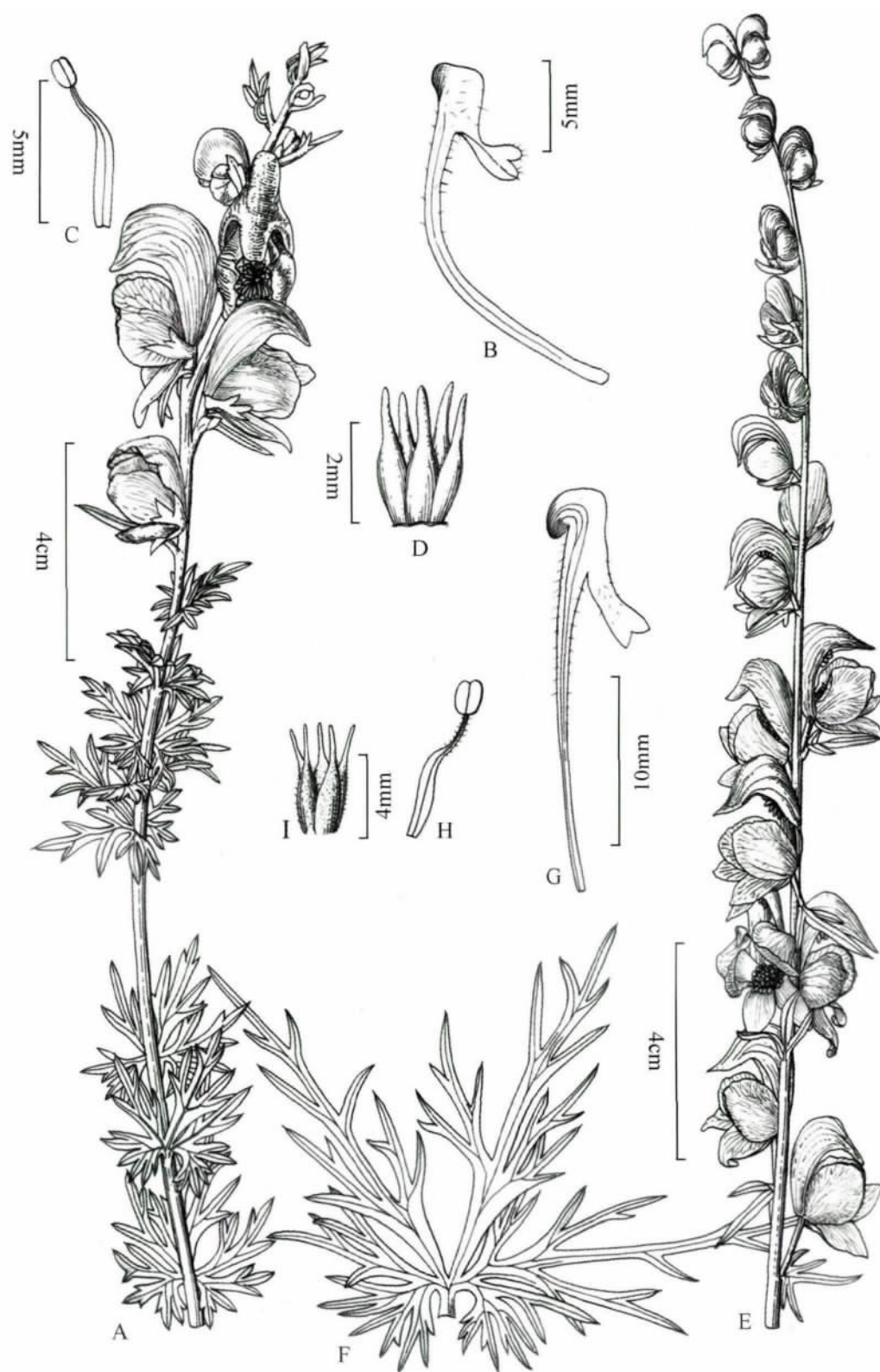


图1 A~D. 合作乌头: A. 开花茎上部; B. 花瓣; C. 雄蕊; D. 雌蕊群 E~I. 莲花山乌头: E. 总状花序; F. 茎中部叶; G. 花瓣; H. 雄蕊; I. 雌蕊群

Fig. 1 A~D. *Aconitum hezuense*: A. Upper part of flowering stem; B. Petal; C. Stamen; D. Gynoecium E~I. *A. lianhuashanicum*: E. Raceme; F. Middle cauline leaf; G. Petal; H. Stamen; I. Gynoecium

Carpels 5, glabrous; ovaries oblong-ovoid, ca. 1.5 mm long; styles 1–1.2 mm long.

甘肃(Gansu): 合作市, 卡加曼乡, 下卡加村(Hezuo Shi, Kajiaman Xiang, Xiakajia Village) 35°05'16"N, 102°55'11"E, alt. 2 850 m, 山坡灌木、草丛中(among shrubs and grasses on slope), 花淡黄色(fls. yellowish), 2008–09–05, 张彩飞(C. F. Zhang) 1135(holotype, PE)。

本种的叶细裂, 萼片淡黄色, 外面无毛, 上萼片呈船形, 因此与也具这些特征的祁连山乌头(*Aconitum chilienshanicum* W. T. Wang) 有相近的亲缘关系, 与后者的区别在于本种的茎、花序轴、花梗和花瓣均有毛, 小苞片3裂, 上萼片较大, 长1.6~2.2 cm, 侧萼片和下萼片内面均有毛, 雌蕊群具5心皮。在祁连山乌头, 茎、花序轴、花梗和花瓣均无毛, 小苞片条形, 不分裂, 上萼片较小, 长1.5~1.9 cm, 侧萼片和下萼片内面无毛, 雌蕊群具3心皮^[1]。

莲花山乌头 图 1: E–I

Aconitum lianhuashanicum W. T. Wang, sp. nov. Fig. 1: E–I

(Sect. *Aconitum* ser. *Brachypoda* W. T. Wang)

Species nova haec est arcte affinis *A. flavo* Hand. -Mazz., quod caulibus superne et racemorum rhachidibus appresso-puberulis, sepalis flavis vel caeruleis, sepalo supero haud vel breviter unguiculato et fronte haud vel breviter rostrato, ovariis glabris vel sparse puberulis recedit.

Tubers unknown. Stem ca. 135 cm tall, at base 4 mm across, glabrous, simple. Leaves all cauline, lower leaves withered at anthesis, middle and upper leaves more and less dense, shortly petiolate or sessile, glabrous; blades coriaceous, pentagonal in outline, 4.8–7.5 × 5–10 cm, 3-sect, segments 2–3 times dissected, ultimate lobes narrowly linear or linear, 0.4–1.2 mm broad, apex pungent, margin entire; petioles 2–20 mm long. Raceme terminal, elongate, ca. 48 cm long, ca. 32-flowered, at base with 1 short thin 4-flowered branch 5 cm long;

lower bracts foliaceous or 3-lobed, other upper bracts undivided, linear or linear-triangular, 0.2–2 cm long, glabrous; rachis glabrous, smooth; pedicels 0.3–1.5 cm long, sparsely appressed-puberulous, near apex 2-bracteolate; bracteoles linear or linear-triangular, 2–4.5 mm long, glabrous. Sepals 5, purplish, abaxially densely appressed-puberulous; upper sepal galeate-navicular, 1.5–2 cm high, clawed, at frontal side rostrate (rostrum ca. 3.5 mm long), adaxially sparsely puberulous; lateral sepals orbicular-obovate, 1.2 × 0.7 cm, adaxially sparsely pubescent; lower sepals obliquely elliptic, 9 × 5 mm, adaxially puberulous. Petals 2, pilose; claws ca. 1.9 cm long; limbs ca. 9 mm long, spurs incurved, 2 mm long, lips 4 mm long, at apex dilated and 2-lobed. Stamens numerous; filaments 4–6 mm long, below linear, 1-nerved, above filiform, sparsely ciliate; anthers broadly oblong, 0.8–1 mm long, glabrous. Carpels 5; ovaries oblong, 3.2–3.5 mm long, densely appressed-puberulous; styles 1.5–2 mm long, glabrous.

甘肃(Gansu): 莲花山, 近莲花山自然保护区管理局(Lianhua Shan, near Bureau of Lianhuashan Nature Reserve) (103°46'130"E 34°59'659"N) alt. 2 100 m, 田间沟中(in a ditch between fields), 花淡紫色(fls. purplish), 2008–09–08, 张彩飞(C. F. Zhang) 1226(holotype, PE)。

本种与伏毛铁棒锤(*Aconitum flavum* Hand. -Mazz.) 在亲缘关系上很相近, 与后者的区别在于本种的茎和花序轴无毛, 萼片淡紫色, 上萼片具较长爪, 前侧具喙, 子房密被短柔毛。伏毛铁棒锤茎上部及花序轴均被贴伏短柔毛, 萼片黄色或蓝色, 上萼片无或有短爪, 前侧无或有短喙, 子房无毛或疏被短柔毛^[1]。

致谢 诚挚感谢孙英宝先生为本文绘图。

参 考 文 献

1. 王文采. 中国植物志: 第 27 卷 [M]. 北京: 科学出版社, 1979 27: 113–326.