

四川产紫堇属四新种

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FOUR NEW SPECIES OF CORYDALIS FROM SICHUAN

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关键词 新分类群; 紫堇属; 四川

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椭圆果黄堇 新种 图 1

Corydalis ellipticarpa C. Y. Wu et Z. Y. Su sp. nov.

Affinis *C. hemsleyanae* Franch. et Prain, sed caulibus scapiformibus, floribus flavis, majoribus, petalo antico basi saccato facile differt.

Herba caespitosa circ. 30 cm longa. Rhizoma circ. 5—10 mm longum, 10 mm crassum, radicibus fibrosis, numerosis, fasciculatis. Caulis 1 usque numerosus, scapiformis, simplex, efoliolatus, interdum basi unifolius. Folia basalia numerosa, circ. 20 cm longa, petiolis circ. 15 cm longis basi marginato-expansis, plus minusve carnosulis, in sicco purpureo-brunneis, laminis circ. 5 cm longis 5—6 cm latis, viridibus, subtus glaucescentibus, biternatis, pinnis brevipetiolulatis, pinnulis sessilibus vel subsessilibus, 2.5—3.5 cm longis, 2—3 cm latis bitripartitis, segmentis lanceolatis, saepe trilobatis. Inflorescentia racemosa, floribus numerosis, laxis. Bractae infimae foliaceae circ. 3—3.5 cm longae, 3 cm latae, brevipetiolulatae, bitripartitae, ceterae cuneatae, circ. 2 cm longae, 1 cm latae, lobatae vel incisae. Pedicelli 1—2 cm longi. Sepala squamiformia, triangularia circ. 1 mm longa, plus minusve denticulata. Corolla flava, horizontalis. Petalum posticum 2.5—3 cm longum, 5 mm latum, ecristatum usque leviter cristatum, calcar circ. 1.6—2 cm longo, infundibulari, subrecto vel ad extremum leviter curvato, glande nectarifera circ. 6 mm longa. Petalum anticum postico simile, ungue lato, navicu-

lari basi in saccatum ut in dicentra decurrenti. Petala interiora cristata, ungue cuneato laminam subaequilongu. Stamina anguste elliptica. Stigma suborbiculare, papillis 8. Capsula elliptica 1.5—2 cm longa, 4—6 mm lata, seminibus numerosis biseriatis.

Sichuan, Jinchuan (金川), alt. 4000 m. 10 Jun. 1978, Aba Institutum Medico-gubernatum (阿坝州药检所) 458 (Typus in Herbarium of Sichuan Institute of Chinese Materia Medica); Barkam (马尔康), in sylvis usque ad 3200 m supra mere. 22 Maj. 1957 Li Xin (李馨) 71121 (KUN).

本种接近 *C. hemsleyana*, 但茎花葶状, 花黄色, 较大, 下花瓣基部囊状而易于区别。过去 Fedde 曾认为 *C. hemsleyana* 与 *C. incisa* 亲缘相近, 因为它们具有相似的花色和二回三出的叶, 但从柱头和果实形态看它们却有较大的差异。本种与 *C. hemsleyana* 可能代表了一个新的组, 间于 Sect. *Incisae* sensu Fedde 和 Sect. *Asterostigmata* Fedde 之间。

毛被黄堇 新种 图 2, 7—12.

Corydalis hebephylla C. Y. Wu et Z. Y. Su sp. nov. (Sect. *Capnogorium* (Bernh.) Endlicher).

Affinis *C. potaninii* Maxim., quae differt floribus majoribus, petalis exterioribus alte cristatis, capsula moniliformi.

Herba perennis caespitosa, 40—50 cm alta. Radix ignota. Caulis erectus striatus, foliatus superne ramosus. Folia caulina inferiora circ. 20 cm longa, laminis circ. 10 cm longis, 8 cm latis, viridibus, subtus glaucescentibus, paleaceis, pinnatisectis, pinnis 3—7, terminalibus majoribus circ. 6 cm longis, 5 cm latis, lateralibus paulo minoribus, circ. 5 cm longis, 4 cm latis, omnibus tripartitis vel inaequaliter crasso-serratis. Inflorescentia racemosa 4—7 cm longa, floribus

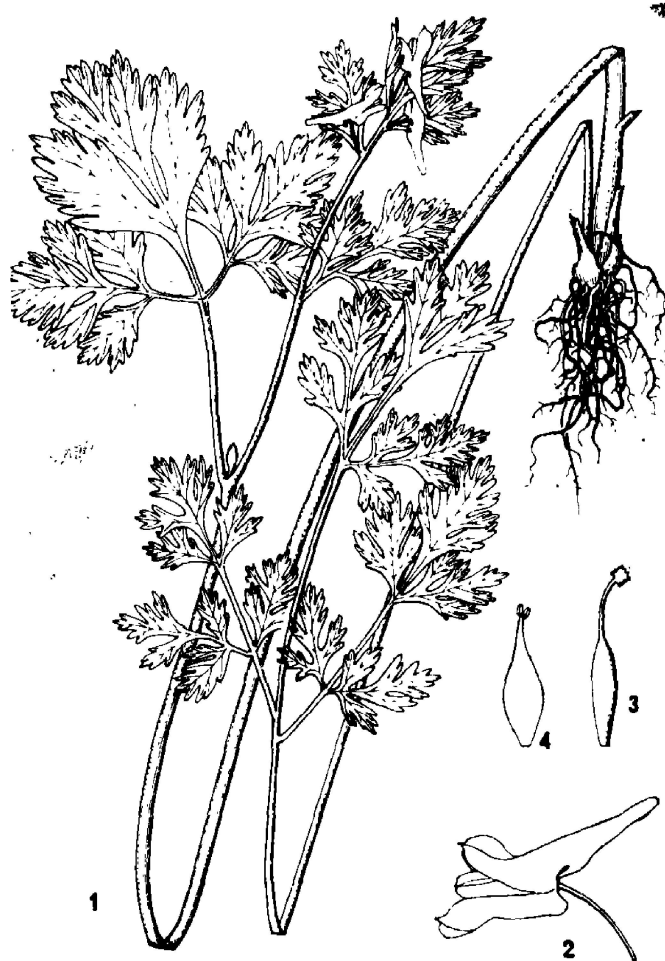


图 1 橐果黄堇 *Corydalis ellipticarpa* C. Y. Wu et Z. Y. Su 1. 植株; 2. 花; 3. 雌蕊和柱头; 4. 雄蕊。(杨建昆绘)

numerosis, congestis. Bracteae foliaceae, infimae circ. 2 cm longae, 2 cm latae tripartitae, sursum lanceolatas integras gradatim transientes. Pedicelli 1—1.5 cm longi. Sepala minuta, ovata, sparsim denticulata, apice caudata. Corolla flava apice purpurascens, horizontalis, circ. 1.9 cm longa. Petalum posticum ecristatum, calcar cylindrico laminam subaequilongum, glande nectarifera usque ad apicem subattingenti. Petalum anticum circ. 1.2 cm longum postico simile, ungue angusta. Petala interiora circ. 1.1 cm longa, ungue laminam subaequilongum. Stamina oblanceolata prope apicem filiformem abrupte transientia. Ovarium lineare vel oblongum, stylum subaequilongum; stigma suborbiculare, papillis 8. Capsula oblonga, circ. 1 cm longa 3 mm lata, seminibus 3—6, uniseriatis.

Sichuan: Jinchuan (金川), in pratis usque ad 4400 m supra mere. 8 Aug. 1958, Li Xin (李馨) 78342 (Typus SZ.)

本种接近 *C. potaninii*, 后者花较大, 外花瓣具高鸡冠突起, 蒴果串珠状, 而与本种不同。

假毛被黄堇 新变种 图 2, 1—6

var. *glabrescens* C. Y. Wu et Z. Y. Su var. nov.

A typo differt foliis glabris subtus non paleaceis, floribus roseo-purpurascens in sicco.

Sichuan: Maowen (茂汶), 1952, C. Ho (何铸) et T. L. Chow (周子林) 13760 (Typus JSBI)。

本变种叶光滑, 无糠秕状鳞片而与原变种不同。

川西黄堇 新种 图 3

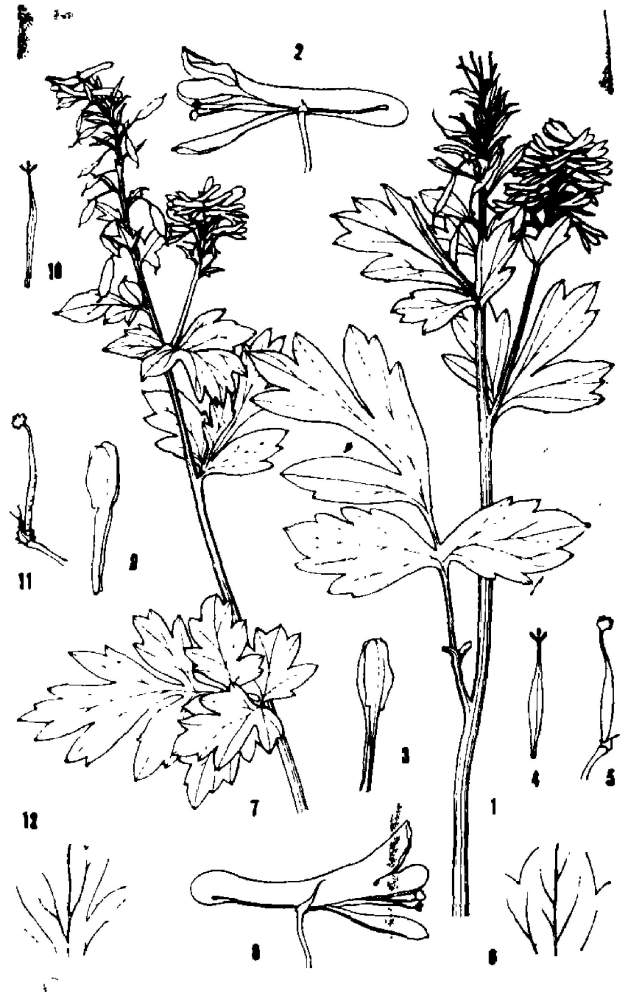


图 2 1—6 假毛被黄堇 *Corydalis hebeophylla* var. *glabrescens* C. Y. Wu et Z. Y. Su 1. 花果枝; 2. 花; 3. 内花瓣; 4. 雄蕊; 5. 雌蕊; 6. 叶背面 (放大)。7—12. 毛被黄堇 *Corydalis hebeophylla* C. Y. Wu et Z. Y. Su 7. 花果枝; 8. 花; 9. 内花瓣; 10. 雄蕊; 11. 雌蕊; 12. 叶背面 (放大)。(吴锡麟绘)

Corydalis grandiflora C. Y. Wu et Z. Y. Su sp. nov. (Sect. *Capnogorium* (Bernh.) Endlicher).

Affinis *C. potaninii* Maxim., quae difi-ert foliis majoribus, sub-
tus glaucescen-
tibus, floribus minoribus, calcaribus
gracilioribus longioribusque, ovariis
linearibus.

Herba perennis caespitosa carno-
sula caesio-viridis, 25—30 cm alta.
Radix phalaris circ. 10 cm longa,
1 cm crassa, in vetustate evacuata,
systematem vascularem reticulatum
tantum remanens. Caulis 1—4,
ab axillis foliorum basali-um enatus,
simplex, supra medium bi-vel trifol-
liatus. Folia basalia 2—5, cauli-
bus paulo breviora, petiolis lamina
brevi-oribus, laminis pinnatisectis,
pinnis 5—7, late ovatis, termina-
libus majoribus, 4—5 cm longis,
3—4 cm latis, brevi-petiolulatis,
lateralibus minoribus, sessilibus
circ. 3 cm longis, 2 cm latis,
omnibus tripartitis, segmentis bi-
vel trilobatis usque integris. Folia
caulina basalibus similia, sed minora.
Inflorescentia racemosa 4—6 cm
longa, floribus numerosis, congestis.
Bracteae magnae, inferiores late
ovatae, circ. 3 cm longae, 2—



图3 川西黄堇 *Corydalis grandiflora*

C. Y. Wu et Z. Y. Su 1.花枝; 2.花;

3.内花瓣; 4.雄蕊; 5.雌蕊。(张宝福绘)

2.5 cm latae, tripartitae usque trilobatae, superiores oblongae usque spathulatae
integrae, circ. 2 cm longae, 5 mm latae. Pedicelli circ. 1.5 cm longi. Flores
sordide flavi, horizontales. Sepala semiorbicularia circ. 4 mm longa, apice cau-
data, margine denticulata. Petalum posticum 2.5—3 cm longum, 4 mm latum,
crista alta, integra, apicem petali superanti, calcaris cylindrico circ. 8—10 mm
longo, 4 mm lato, glande nectarifera usque ad basin calcaris subattingenti. Peta-
lum anticum postico simile, sed superans, ungue basi subsaccata. Petala interiora
inconspicue cristata, ungue laminam subaequilonga. Stamina lanceolata tricostata.
Ovarium obovatum stylo paulo longius, stigma suborbiculare, papillis 8. Flores

mense Julio aperti.

Sichuan, Danba (丹巴), 17 Jul. 1930 Huang Zhi Ping et al, (黄治平等) 01438 (Typus KUN); Kangding (康定), in clivis et fissuris petrae, 5 Aug. 1940 K. L. Chu (曲桂龄) 7508.

本种接近 *C. potaninii*, 后者的叶较大, 下面苍白色, 花较小, 距较细长, 子房线形, 而与本种不同。

独活叶黄堇 新种 图 4

Corydalis heracleifolia C. Y. Wu et Z. Y. Su sp. nov. (Scet. *Bipapillata* Liden).

Affinis *C. semenovii* Regel, sed floribus minoribus sordide sanguineis, foliis majoribus heracleoidibus facile differt.

Herba erecta, robusta circ. 1 m alta. Radix phalaris brunnea, circ. 15 cm longa, 1 cm crassa, extus epidermibus laceratis saepe oblecta. Caulis cavernosus, striatus, circ. 5 mm crassus, foliatus ramosusque. Folia caulina heracleoida, inferiora longipetiolata, superiora brevipetiolata usque subsessilia, laminis bipinnatisectis viridibus, subtus glaucescentibus, pinnis 2—3-jugatis, alternatis usque oppositis, pinnulis 3—5, terminalibus majoribus circ. 6—14 cm longis, 5—7 cm latis, tripartitis, lateralibus minoribus circ. 4—7 cm longis, 3—4 cm latis, inaequaliter 2—3-partitis vel lanceolatis, omnibus crasse dentatis vel incisis. Inflorescentia 5—10 cm longa, floribus numerosis. Bractee lanceolatae circ. 6 mm longae, 2 mm latae, integrae vel apice plus minusve incisae.

Sepala anguste lanceolata circ. 4 mm longa, 1 mm lata, integra. Corolla sordide sanguinea, horizontalis, 8—10 mm longa. Petalum posticum acuminatum, ecristatum, calcaris saccato, circ. 2 mm longo, glande nectarifera circ. 1 mm longa,



图 4 独活叶黄堇 *Corydalis heracleifolia*

C. Y. Wu et Z. Y. Su 1.花果枝; 2.花; 3.内花瓣; 4.雄蕊; 5.雌蕊和柱头。(吴锡麟绘)

apice crassiuscula. Petalum anticum 7—8 mm longum postico simile. Petala interiora ovato-oblonga, leviter cristata, unguibus laminam subaequantibus. Stamina lanceolata. Ovarium lineare; stylus ovario brevior; stigma divaricatum, cruribus 2, inter quoque segmento solum papillato. Capsula linearis circ. 2—4 cm longa, 2—3 mm lata, leviter curvata, plus minusve noduliformis.

Sichuan: Heishui (黑水), alt. 3400 m, "fruit green with numerous seeds", 17 Aug. 1957, s. col. 23836 (KUN); Lixian (理县), "under forest, about 1 m high with flowers and fruits", 16 Sep. 1952, C. Ho (何铸) et T. L. Chow (周子林) 14024 (typus SZ); ibid. alt. 2960 m, "about 40—60 cm high, s. col. 5520 (Sichuan Institute of Chinese Materia Medica, Chongqing); Zoige (若尔盖), alt. 2800 m, "in valley beside forest, about 1.5 m high with fruits", 12 Aug. 1960, Sichuan expd. of Chinese Materia Medica 20539 (JSBI); Zamtang (壤塘), alt. 3400 m, "beside road, with dark-brown root and flowers", 3 Jul. 1979, Aba institute of Drug Control 645 (Sichuan Institute of Chinese Materia Medica, Chongqing)

本种亲缘近 *C. semenovii*, 区别是花较小, 污血红色, 叶较大, 独活叶状。