

叉角翠雀花, 四川毛茛科一新种

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摘要 描述了自四川发现的毛茛科翠雀属一新种, 叉角翠雀花。此新种的萼片具叉状角状突起而与弯距翠雀花有亲缘关系, 但其叶片3深裂, 下面无毛, 花3~5朵排列成伞房花序, 花梗被白色短柔毛, 无腺毛, 萼距稍向下弯曲, 花瓣不2裂, 而与弯距翠雀花相区别。

关键词 毛茛科; 翠雀花属; 新种; 四川

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Delphinium furcatocornutum A New Species of Ranunculaceae from Sichuan

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Abstract A species of the genus *Delphinium* (Ranunculaceae), *Delphinium furcatocornutum*, is described as new from Sichuan Province. In having sepals with furcate horn-like projections, this species is related to *D. campylocentrum* Maxim., in which the sepals also bear furcate horn-like projections, and from the latter differs in its 3-parted, abaxially glabrous leaf blades, 3-5 flowers arranged in corymbs, white-puberulous pedicels, slightly downward curved sepal spurs, and not 2-lobulate petals.

Key words Ranunculaceae; *Delphinium*; new species; Sichuan

叉角翠雀花 图 1

Delphinium furcatocornutum W. T. Wang, sp. nov. Fig. 1.

(Sect. *Delphinastrum* DC. subsect. *Pogonantha* W. T. Wang)

Ob sepala extus apice vel infra apicem cornibus furcatis praedita, species nova haec est affinis *Delphinio campylocentro* Maxim., quod foliorum laminis palmatim 3-sectis subtus puberulis, floribus multis in paniculam dispositis, pedicellis luteo-glanduloso-puberulis, calcaris sepalino u-forme deorsum curvato, petalis apice 2-lobulatis statim distinguitur.

Perennial herbs. Rhizome ca. 4.5 cm long, 6 mm across, putting forth dense thin and long black roots. Stem ca. 1 m tall, branched, glabrous. Upper cauline leaves long petiolate; blades thinly papery,

pentagonal, 3-8.5 cm long, 5-17 cm broad, at base cordate, to 3-5-(10) mm above base 3-parted, central lobe rhombic, 2.5-7.5 cm long, 1.2-5 cm broad, at apex long acuminate, 3-fid, with margins incised-dentate, lateral lobes larger, obliquely broad-flabellate, unequally 2-parted; surfaces adaxially sparsely appressed-puberulous, abaxially glabrous; petioles 3-9 cm long, glabrous. Terminal corymb ca. 8 cm broad, 1-branched, 5-flowered, lateral axillary corymbs ca. 3.5 cm broad, 3-flowered; peduncles ca. 14 cm long, glabrous; basal bract foliaceous, ca. 4.5 cm broad, upper bracts linear or narrow-ovate, 2-3 mm long; pedicels slender, 2.5-5.7 cm long, densely white-puberulous, at or above the middle 2-bracteolate; bracteoles linear or subulate, 2-5 mm long, glabrous. Sepals blue, 1.1-1.3 cm long, adaxially glabrous, abaxially puberulous;

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图1 叉角翠雀花 A. 上部茎生叶和腋生伞房花序; B. 顶生伞房花序; C. 上萼片; D. 侧萼片; E. 下萼片; F. 退化雄蕊; G. 雄蕊; H. 雌蕊群, 由3心皮组成

Fig.1 *Delphinium furcatocornutum* A. Upper culine leaf and axillary corymb; B. Terminal corymb; C. Upper sepal; D. Lateral sepal; E. Lower sepal; F. Staminode; G. Stamen; H. Gynoecium, consisting of three carpels

upper sepal oblong-ovate, 6–7 mm broad, at apex corniculate, with furcate projection ca. 1.4 mm long, spur subulate, ca. 2.8 cm long, at base ca. 4.2 mm across, slightly downward curved; lateral sepals elliptic or elliptic-obovate, 6–6.5 mm broad, abaxially below apex corniculate, with furcate projec-

tions ca. 1.6 mm long; lower sepals slightly unequal in size, narrowly ovate-oblong, 2–3.5 mm broad, abaxially below apex corniculate, with projections ca. 1.5 mm long, furcate or undivided. Petals glabrous, at apex slightly obtuse, not 2-lobulate. Staminodes blue, ca. 1.1 cm long; claws slightly shorter

than limbs; limbs 5.5–6 mm long, 2.7 mm broad, 2-parted into 2 lanceolate ciliate lobes, above base sparsely yellow-barbate. Stamens glabrous; filaments 5–6 mm long, below winged; anthers 1 mm long. Carpels 3, ca. 4 mm long, glabrous. Fruit unknown.

多年生草本。根状茎长约 4.5 cm, 粗 6 mm, 生出密集的细长黑色根。茎高约 1 m, 分枝, 无毛。上部茎生叶具长柄; 叶片薄纸质, 五角形, 长 3~8.5 cm, 宽 5~17 cm, 基部心形, 3 深裂至距基部 3~5 (~10) mm 处, 顶端长渐尖, 3 中裂, 边缘具缺刻和牙齿, 侧裂片较大, 斜宽扇形, 不等 2 深裂, 上面疏被贴伏短柔毛, 下面无毛; 叶柄长 3~9 cm, 无毛。顶生伞房花序宽约 8 cm, 有 1 分枝, 具 5 花, 侧面腋生伞房花序宽约 3.5 cm, 具 3 花; 花序梗长约 14 cm, 无毛; 基生苞片叶状, 宽约 4.5 cm, 上部苞片条形或狭卵形, 长 2~3 mm; 花梗纤细, 长 2.5~7.5 cm, 密被白色短柔毛, 在中部或中部之上具 2 小苞片; 小苞片条形或钻形, 长 2~5 mm, 无毛。萼片蓝色, 长 1.1~1.3 cm, 内面无毛, 外面被短柔毛; 上萼片长圆状卵形, 宽 6~7 mm, 顶端的角状突起, 长约 1.4 mm, 叉状分裂, 萼距钻形, 长约 2.8 cm, 在基部粗约 4.2 mm, 稍向下弯曲; 侧萼片椭圆形或椭圆状倒卵形, 宽 6~6.5 mm, 外面顶端之下具长约 1.6 mm 的叉状角状突起; 下萼片稍不等大, 狭卵状长圆形, 宽 2~3.5 mm, 外面顶端之下具长约 1.5 mm 的叉状角状突起, 突起有时不分裂。

花瓣无毛, 顶端微钝, 不 2 裂。退化雄蕊蓝色, 长约 1.1 cm; 爪比瓣片稍短; 瓣片长 5.5~6 mm, 宽 2.7 mm, 2 深裂成 2 披针形, 被缘毛的裂片, 在基部之上疏被黄色髯毛。雄蕊无毛; 花丝长 5~6 mm, 下部具翅; 花药长 1 mm。心皮 3, 长约 4 mm, 无毛。果未见。

四川(Sichuan): 木里(Muli), 913 林场(913 Tree Farm), 向梁沟(Xianglianggou), alt. 3300m, 山坡云杉林下(under Picea forest on slope), herbs 1 m tall, fls. blue, sepals at apex with two small projections, 1983-08-27, 青藏考察队(Qinghai-Xizang Exped.) 13501 (holotype, PE)

由于萼片具叉状角状突起, 本种与萼片也具叉状角状突起的弯距翠雀花(*Delphinium campylo-centrum* Maxim.) 有亲缘关系, 与后者的区别是: 本种的叶片 3 深裂, 下面无毛, 花 3~5 朵排列成伞房花序, 花梗被白色短柔毛, 萼距稍向下弯曲, 花瓣不分裂。在弯距翠雀花, 叶片掌状 3 全裂, 下面被短柔毛, 花多数排列成圆锥花序, 花梗被黄色短腺毛, 萼距呈 U 字形弯曲, 花瓣顶端 2 浅裂^[1]。

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