

中国四川凤仙花属 (凤仙花科) ——新种——凉山凤仙花

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摘要: 描述了四川凤仙花属一新种, 凉山凤仙花。新种与黄麻叶凤仙花近缘, 主要区别: 花序 2~6 花, 均垂于叶片下, 囊状的唇瓣肿胀, 在中部明显弯曲, 翼瓣基部裂片先端长渐尖或尾尖, 上部裂片背腹约 120°~180°扭转。

关键词: 凉山凤仙花; 凤仙花属; 凤仙花科; 新种; 凉山; 四川; 中国

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Impatiens liangshanensis Q. Luo, a new species of *Impatiens* (Balsaminaceae) from Sichuan, China

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Abstract: *Impatiens liangshanensis* Q. Luo, a new species of *Impatiens* from Liangshan, Sichuan, China, is described. The new species is closely related to *I. corchorifolia* Franch., but distincts from in its inflorescence entirely hanging below leaves, 2-6 flowers, its saccate labellum turgid, distinctly curved in the centre, the apex long-acuminate or caudate of the basal lobe of the ala, the upper lobe dorsal and ventral part being twisted 120° to 180°.

Key words: *Impatiens liangshanensis* Q. Luo; *Impatiens*; Balsaminaceae; new species; Liangshan; Sichuan; China.

2008年9月、2010年8月作者在四川西昌市螺髻山及德昌县的大湾乡、德州镇等地先后发现了一凤仙花类群, 经多次调查、详细地研究、参阅了相关专家(陈艺林等, 2001, 2007)对我国分布的凤仙花属植物系统研究的文献后发现, 该类群在外形上与黄麻叶凤仙花(*Impatiens corchorifolia* Franch.)近缘, 但区别明显, 确认为一新种。现报道如下:

凉山凤仙花 新种 图 1

Impatiens liangshanensis Q. Luo, sp. nov. Fig. 1.

Species nova haec est affinis *I. corchorifoliae* Franch., quod inflorescentia omnino sub foliis pendentibus mucronulatis, inferiora elliptica vel anguste elliptica, 10-17 cm longa, 3.5-6.5 cm lata, apice acu-

te, floribus 2-6 quorum, labello saccato turgidum, media parte plane curvato, alae lobo basali apice longo-acuminato vel caudato, lobi superioris parte dorsali et ventrali 120°-180° tortuosus differt.

Herba annua, 30-150 cm alta, glaberrima. Caulis crassus, succulentus, nodis incrassatis, ramosus vel simplex. Folia membranacea, superiora breviter petiolata vel subsessilia, ovato-oblonga vel ovato-lanceolata, 3.5-14 cm longa, 1.5-5 cm lata, apice acuminato-caudata, basi leviter cordata vel rotundata, margine crenata vel serrata, serraturis

minato-caudata, basi cuneata, margine crenata, nervis lateralibus 6-14-jugis, margine basali glan-

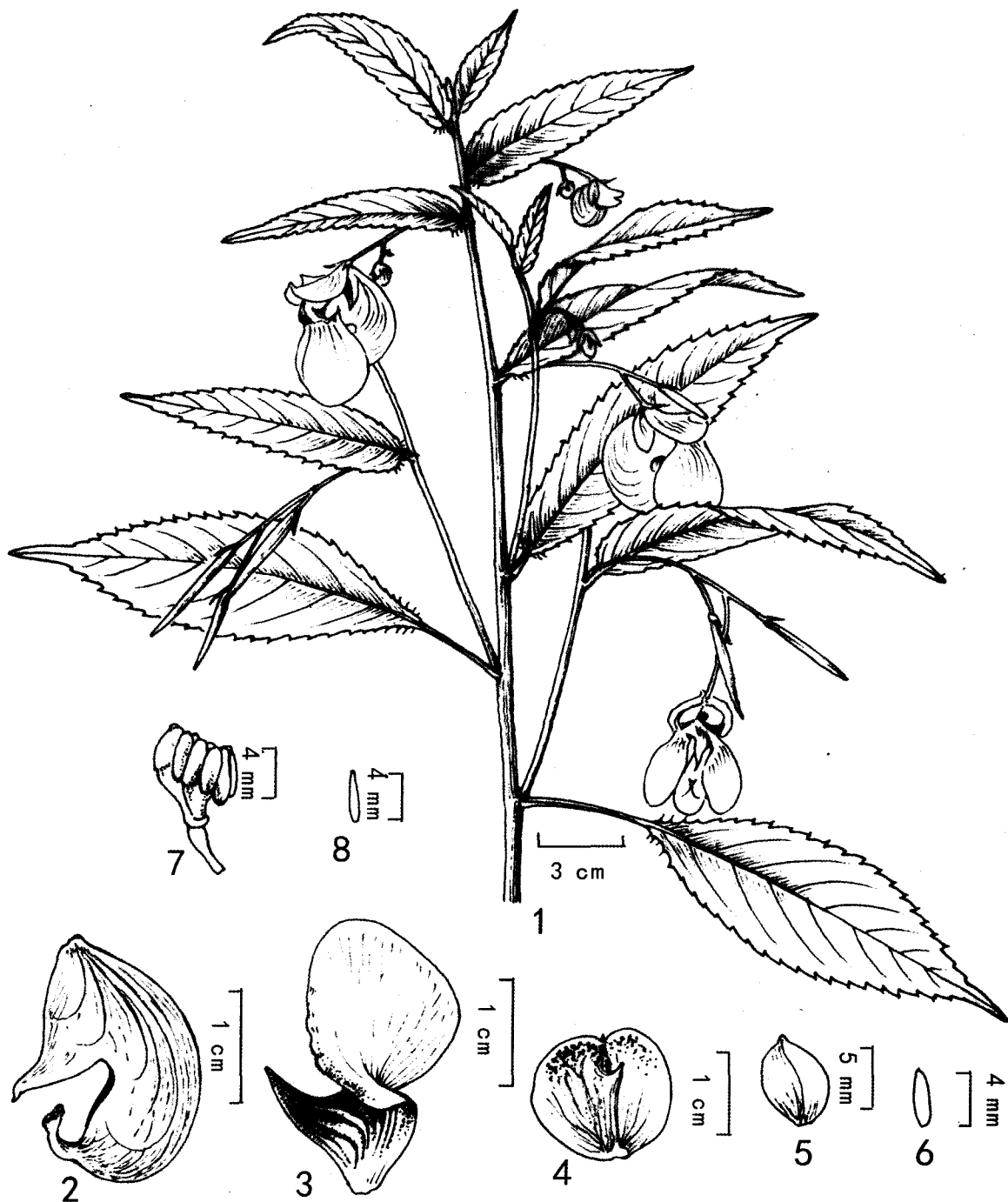


图 1 凉山凤仙花 1. 植株; 2. 唇瓣; 3. 翼瓣; 4. 旗瓣; 5. 外侧萼片; 6. 内侧萼片; 7. 花药和花丝; 8. 苞片。(林文宏 根据主模式标本绘)

Fig. 1 *Impatiens liangshanensis* Q. Luo 1. plant; 2. label; 3. ala; 4. vexillum; 5. outer sepals; 6. inner sepals; 7. anther and filament; 8. bract. (Drawn by LIN Wen-Hong based on holotype)

dulis stipitatis petiolata. Cyma scorpioides pedunculo axillari, gracilis, patula, sub foliis omnino pendens, 1 - 4 cm longa, 2 - 6-flora, flore uno plerumque sterili; pedicelli graciles, 0.5 - 3 cm, basi

bracteati; bractea spiciformis vel lanceolata, 4 - 5 mm longa, persistentes. Flores lutei, 2.5 - 3.5 cm longi, 2.5 - 3.5 cm expansi, sepala lateralia 4, membranacea, exteriora oblique rotunda vel oblique

elliptica, inaequilateralis, 8–9 mm longa, 7–8 mm lata, venis 6–7, costa incrassata, apice rostrata, interiora oblongo-ovata vel oblongo-elliptica, apice rotunda, circ. 4 mm longa, 1.5–2 mm lata. Vexillum orbiculatum vel oblatum, 1.5–1.8 cm diam., purpureo-striatum et purpureo-maculatum, costa dorsali parte media et superiore plane cristata, apice acuminata, mucronata. Ala 2.5–3.5 cm longa, subsessilis, biloba; lobus basalis leviter parvus, semiorbiculatus, apice longo-acuminatus vel caudata, intra purpureo-striatis, extra purpureis, distalibus late dolabriformis vel orbiculatus, dorsali et ventrali 120° – 180° tortuosus, 1.3–2 cm diam., margine media et superiore intra erosa. Labellum saccatum, 2.5–3.3 cm longum, turgidum, medio incurvatum, rubro-maculatum vel rubro-striatum, ore horizontali ca. 1 cm lato, apice rostrato, basi rubro-reticulatum, in calcar parvum ca. 5 mm longum planum incurvatum abrupte constrictum, apice unguatum, leviter bilobum. Antherae luteae circ. 4 mm longae, ovatae, apice obtusae; filamentis brevibus curvatis. ovarium clavatum apice subrostratum. Capsula lineari-cylindrica, 2.5–5.5 cm longa, apice rostrata. Semina multa, nigra, obovatoidea, 2.3–5 mm longa, verrucosa. Fl. Aug.–Oct, fr. Sep.–Nov.

一年生草本, 高 30~150 cm, 全株无毛。茎粗壮, 肉质, 节膨大, 分枝或不分枝。叶膜质, 上部叶具短柄或近无柄, 长卵形或卵状披针形, 长 3.5~14 cm, 宽 1.5~5 cm, 顶端渐尖至尾尖, 基部微心形或圆钝, 边缘具圆钝齿或锯齿, 齿端具尖头, 下部叶具 2.5~5 cm 的长柄, 椭圆形或狭椭圆形, 长 10~17 cm, 宽 3.5~6.5 cm, 先端渐尖至尾尖, 基部楔形, 边缘具圆钝齿, 侧脉 6~14 对, 叶缘基部具长柄的小腺体。蝎尾状聚伞花序, 总花梗叶腋生, 纤细, 开展, 均垂于叶片之下, 长 1~4 cm, 2~6 花, 1 朵常败育; 花梗细, 长 0.5~3 cm; 花基部具 1 披针形或钻状苞片, 长 4~5 mm, 宿存。花黄色, 长 2.5~3.5 cm, 宽 2.5~3.5 cm; 侧生萼片 4, 膜质, 外侧两片斜圆形或斜椭圆形, 两边不等侧, 长 8~9 mm, 宽 7~8 mm, 有肋 6~7, 中肋增厚突起, 顶端喙尖, 内侧 2 片长卵

形或长椭圆形, 顶端圆钝, 长约 4 mm, 宽 1.5~2 mm; 旗瓣圆形或扁圆形, 先端微凹, 径 1.5~1.8 cm, 具紫色条纹和斑点, 背面中肋中上部具鸡冠状突起, 突尖斜向前, 先端具小尖头; 翼瓣长 2.5~3.5 cm, 近无柄, 2 裂, 基部裂片稍小, 半圆形, 顶端长渐尖或尾尖, 内侧具紫红色条纹, 外侧紫色, 上部裂片圆形或宽斧形, 背腹约 120° ~ 180° 扭转, 径 1.3~2 cm, 内侧中上部边缘啮蚀状; 唇瓣囊状, 肿胀, 长 2.5~3.3 cm, 中部明显内弯, 具红色的斑纹或条纹, 口部近平展, 先端具喙尖, 口宽约 1 cm, 基部急收成扁而内弯的短距, 长约 5 mm, 顶端蹄状 2 浅裂。花药黄色, 长约 4 mm, 卵形, 顶端钝, 花丝短, 弯曲; 子房棒状具小喙尖。蒴果线状圆柱形, 长 2.5~5.5 cm, 具喙尖。种子多数, 黑色, 倒卵形, 长 2~3.5 mm, 表面具瘤状突起。花期 8~10 月, 果期 9~11 月。

新种与黄麻叶凤仙花近缘, 但花序 2~6 花, 均垂于叶片之下; 唇瓣肿胀, 在中部明显弯曲, 翼瓣基部裂片先端长渐尖或尾尖, 上部裂片背腹约 120° ~ 180° 扭转。

China(中国). Sichuan(四川), Liangshanzhou(凉山州), Xichangcity(西昌市), Luojishan(螺髻山), alt. 2 560 m, in the valley, 2010-09-18, Q. Luo & T. J. Wang(罗强, 王同军), 10901(paratype, HXCH); the same locality, alt. 2 460 m, 2010-09-18, Q. Luo & T. J. Wang(罗强, 王同军) 10902(paratype, HXCH); Dechang county(德昌县), Dawangxiang(大湾乡), crevice under the forest, alt. 2 360 m, 2010-09-22, Q. Luo & T. J. Wang(罗强, 王同军) 10906(holotype, HXCH = Herbarium of Xichang College); the same locality, alt. 2 360 m, 2010-09-22, Q. Luo & T. J. Wang(罗强, 王同军) 10905(paratype, HXCH); Dezhouzheng(德州镇), near road, alt. 2 100 m, 2010-09-22, Q. Luo & T. J. Wang(罗强, 王同军), 10903(paratype, HXCH), 10904(paratype, HXCH).

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