

“云南凤仙花属新类群”的更正^{*}

黄素华¹, 税玉民², 陈文红²

(1 云南大学生物系, 云南 昆明 650091; 2 中国科学院昆明植物研究所, 云南 昆明 650204)

摘要: 作者去年在准备本文时, 对手稿曾有过几次修改。遗憾的是当我们在匆忙中送去发表时, 选出了一份未改好的手稿。我们的疏忽不可避免地带来了如下的错误, 即有些出现在摘要中的种名和描述中相应的种名不一致; 描述中还或多或少地存在一些错误。因此为改正这些错误, 除图版外, 不得不重新发表此文。本文中采用的所有名称应视为合格发表的正确名称。

关键词: 凤仙花属; 新类群; 种名; 描述; 改正

中图分类号: Q 949 文献标识码: A 文章编号: 0253 - 2700(2004)05 - 0569 - 12

Correction of “New Taxa of *Impatiens* L. from Yunnan”

HUANG Su-Hua¹, SHUI Yu-Min², CHEN Wen-Hong²

(1 Department of Biology, Yunnan University, Kunming 650091, China;

2 Kunming Institute of Botany, Chinese Academy of Sciences, Kunming 650204, China)

Abstract: In the course of preparing this paper last year, the manuscript had been corrected several times. Regrettably when we sent it for publication in a hurry, one of unavailable manuscripts had been picked out. Our negligence unavoidably bring about following mistakes, viz. some specific names appeared in the Abstract not conformed with those in the descriptions and there more or less remained some errors in the descriptions. It stands to reason that it might be in time to correct the mistakes to republish this paper except the illustrations. All specific names being used in the present paper should be regarded as correct name for the valid publication.

Key words: *Impatiens*; New taxa; Specific names; Description; Correction

1 长喙凤仙花 (云南植物研究)

Impatiens longirostris S. H. Huang in Acta Bot. Yunnanica 25 (3): 261 - 263, Fig. 1: 1 - 8 (2003).

Species haec habitu *I. drepanophorae* Hook. f. valde affinis, sed a qua bracteis majoribus, ovatis, apice longirostribus, floribus rubellis vel aurantiaco-rubris; vexillo costato dorso semiorbiculari-cristato; labello antice longirostri facile differt.

Herba annua, circ. 60 cm alta. Caulis erectus, ramosus, angulatus, glaber. Folia alterna, apicem caulis versus conferta, membranacea, ovata vel ovato-oblonga, 3 - 7 cm longa, 1.5 - 2.5 cm lata, apice acuminata vel cauda-

* 基金项目: 云南省自然科学基金、中科院生命科学和生物技术局资助的云南植物志编研重点项目 93C001Z, 云南省自然科学基金 (2001C22Q)

收稿日期: 2004 - 06 - 10

作者简介: 黄素华 (1938 -) 女, 教授, 主要从事植物分类学的研究。

ta, basi late cuneata, glandulis clavatis instructa, margine crenata, crenis mucronatis praeditis, supra viridia, parce albidopuberula, subtus virella, subglabra, nervis lateralibus 5 - 7-paribus; petiolus 4 - 5 cm longus. Pedunculi ex axillis foliorum superiorum edentes, 3 - 5 cm longi, 4 - 5-flori, apicem versus conferti; pedicelli 0.8 - 1.2 cm longi, graciles, glabri, basi bracteati; bractee ovatae, rubellae vel aurantiaco-rubrae, 7 - 7.5 mm longae, 5 - 5.5 mm latae, apice rostratae, rostro 2.5 - 3 mm longo. Flores rubelli vel aurantiaco-rubri; sepala lateralia 2, ovato-oblonga, 7 mm longa, 4 mm lata, apice rostrata, rostro 2.5 - 3 mm longa, basi obtusa; vexillum ovatum, 8 - 9 mm longum et latum, apice mucronatum, basi leviter attenuatum, costa dorso semiorbiculari-cristata; alae subsessiles, bilobatae, circ. 2 cm longae, lobo basali ovato, distali oblongo, eo basali 2-plo longiore, apice acuto; labellum anguste infundibulare, limbo obliquo, 5 - 6 mm longo, 1 cm lato, antice longirostri, rostro 0.8 - 1 cm longo, calcar circ. 1.2 cm longo attenuato; stamina 6 mm longa, filamentis filiformibus, antheris leviter acutis; ovarium lineare, 2.5 mm longum, apice acutum, glabrum. Capsulae immaturae, lineares.

Yunnan (云南): Lushui (泸水), Yaojiaping (姚家坪), alt. 2 700 m, 26 Oct. 1996, Gaoligongshan Exped. (高黎贡山考察队) 8104 (Holotype in KUN); Lushui (泸水), Pianma (片马), alt. 2 700 m, in forest Aug. 1964, Wu Shu-Kung (武素功) 8112 (KUN); Tengchong (腾冲), Qushi (曲石), Jiangju (江苴), alt. 2 000 ~ 2 300 m, 14 Sept. 1960, Yin Wen-Qing (尹文清) 60 - 1080 (KUN).

本种近具镰瓣仙花 (*I. drepanophora* Hook. f.) 但本种苞片较大, 卵形, 先端有长喙, 花淡红色或橙红色, 旗瓣背面中肋有半圆形鸡冠状突起, 唇瓣前端有长喙而异。

2 怒江凤仙花 (云南植物研究)

Impatiens salwinensis S. H. Huang in Acta Bot. Yunnanica 25 (3): 263, fig. 3: 8 - 13, (2003)

Species haec habitu *I. yui* S. H. Huang similis, sed a qua floribus albis; sepalis lateralibus 2, minoribus, ovato-triangularis, 5 mm longis, 2.5 mm latis; vexillo costato leviter carinato-incrassato; labello saccato, rubro-striato, calcar 5 mm longo incurvo subito constricto facile differt.

Herba annua, 25 cm alta. Caulis erectus, ramosus, gracilis, angulatus, glaber. Folia alterna, chartacea, ovata usque elliptica, (1) - 1.5 - 4 cm longa, (0.8) - 1.5 - 2 cm lata, apice acuta, mucronata, basi cuneata, margine parce crenata, supra viridia, subtus virella, utrinque glabra, costa supra prominula, nervis lateralibus inconspicuis; petiolus 3 - 5 cm longus. Pedunculi solitarii ex axillis foliorum superiorum edentes, 1.8 - 2 cm longi, uniflori; pedicelli 1 cm longi, in medio bracteati; bractee lineares, 4 mm longae, apice acutae. Flores albi; sepala lateralia 2, ovato-triangularia, 5 mm longa, 2.5 mm lata, apice acuta, basi oblique leviter cordata; vexillum orbiculare, circ. 1 cm diam., apice emarginatum, mucronatum, basi cordatum, costa leviter carinato-incrassata; alae circ. 2 cm longae, sessiles, bilobatae, lobo basali ovato-oblongo, apice acuto, distali oblongo, eo basali 2.5 - plo longiore, circ. 5 mm lato; labellum saccatum, limbo 2 cm longo, 1.5 cm lato, rubro-striato, antice rostro 4 mm longo praedito, calcar 5 mm longo incurvo subito constricto; ovarium fusiforme, 4 mm longum. Capsulae immaturae.

Yunnan (云南): Fugong (福贡), Salwin-kiukiang Divide (怒江傈江分水岭), alt. 3 200 ~ 3 400 m, near bamboo thickets, 14 Sept. 1938, Yü Te-Tsun (俞德浚) 20249 (Holotype in KUN).

本种近德浚凤仙花 (*I. yui* S. H. Huang), 但本种花白色, 侧生萼片 2, 较小, 卵状三角形, 长 5 mm, 宽 2.5 mm, 旗瓣中肋稍龙骨状增粗, 唇瓣囊状, 有红色条纹, 具突然缢缩成长 5 mm 内弯的距, 易区别。

3 德钦凤仙花 (云南植物研究)

Impatiens deqinensis S. H. Huang in Acta Bot. Yunnanica 25 (3): 263 - 264, fig. 2: 8 - 15 (2003).

Species haec habitu *I. delavayi* Franch. similis, sed a qua foliis ovatis usque ovato-ellipticis, margine serratis,

petiolis brevioribus. Pedunculis brevioribus, 2 - 3 floribus; bracteis persistentibus; labello anguste infundibulari, calcaris breviori, ad extremum sagittato facile differt.

Herba succulenta, 50 - 60 cm alta. Caulis robustus, ramosus, basi 1 cm diam., glaber. Folia alterna, chartacea, ovata usque ovato-elliptica, 2 - 5.5 cm longa, 0.8 - 2.5 cm lata, apice acuminata, basi late cuneata vel obtusa, glandulis stipitatis 1 - 2-paribus instructa, margine serrata, dentis glandulosomucronatis praeditis, supra viridia, subtus virella, utrinque subglabra, nervis lateralibus 5 - 7-paribus; petiolus brevis, 2.5 mm longus. Pedunculi ex axillis foliorum edentes, 1 - 1.5 cm longi, 2 - 3-flori (rare 4 - 5-flori); pedicelli 1 - 1.2 cm longi, ad fructus leviter elongati, apice bracteati; bractee ovatae, 2.5 mm longae, apice mucronatae, persistentes. Flores flavi, purpureo-maculati; sepalalateralia 2, oblique ovata, 4 - 5 mm longa et lata, 3 - 5 nervia, apice mucronata; vexillum oblatum, 8 mm longum, 11 mm latum, apice obtusum, basi emarginatum, costa leviter incrassata; alae bilobatae, circ. 1.7 cm longae, lobo basali ovato, purpureo, apice rotundato, distali dolabriformi, eo basali 2.5-plo longiore, apice obtuso, basi purpureo, dorsaliter inconspicuo-auriculato; labellum infundibulare, limbo 1.2 cm longo, 1.2 cm lato, calcaris 5 - 6 mm longo incurvo attenuato, ad extremum sagittato; stamina 6.5 mm longa, filamentis filiformibus, antheris obtusis; ovarium lineare, circ. 6 mm longum, glabrum. Capsulae immaturae, linearicylindricae, circ. 2 cm longae.

Yunnan (云南): Deqin (德钦), alt. 3 680 m, 12 Sept. 1983, Chu Wei-Ming *et al.* (朱维明等) 17333 (Holotype in YUKU); Zhongdian (中甸), Dongbazi (东坝子) 4 Sept. 1939, Feng Kuo-Mei (冯国楣) 2297 (KUN).

本种近耳叶凤仙花 (*I. delavayi* Franch.), 但叶卵形至卵状椭圆形, 边缘具锯齿, 叶柄较短; 总花梗较短, 具 2~3 花, 苞片宿存, 唇瓣狭漏斗形, 距较短, 先端箭头状易区别。

4 德浚凤仙花 (云南植物研究)

Impatiens yui S. H. Huang in *Acta Bot. Yunnanica* **25** (3): 266 - 267, fig. 4: 1 - 7, (2003).

Species haec habitu *I. sabwinensis* S. H. Huang similis, sed a qua floribus roseolis vel purpurascensibus; sepalis lateralibus 2, oblique late ovatis, 1 cm longis, 0.8 cm latis, extus et margine pilosis; vexillo oblato, apice rostrato, costato leviter carinato-incrassato; labello saccato-infundibulari cum calcaris 3.5 - 4 cm longo facile differt.

Herba annua, 25 - 50 cm alta. Caulis erectus, robustus, 1 cm diam., ramosus, angulatus, puberulus, basi radicibus fibrosis numerosis praeditus. Folia alterna, chartacea, ovato-oblonga vel ovato-elliptica, 9 - 14 cm longa, 2.5 - 5 cm lata, apice acuminata, basi attenuata, margine crenis parvis mucronatis praedita, supra viridia, glabra, subtus virella, secus nervos puberula, nervis lateralibus 5 - 7-paribus; petiolus 0.5 - 3 cm longus. Pedunculi ex axillis foliorum superiorum edentes, 1 cm longi, 2-flori; pedicelli 1.2 - 1.5 cm longi, prope apicem bracteati; bractee ovato-lanceolatae, circ. 3.5 mm longae, puberulae, caducae. Flores roseoli vel purpurascens; sepalalateralia 2, oblique late ovata, circ. 1 cm longa, 0.8 cm lata, apice mucronata, basi leviter angusta, extus et margine pilosa; vexillum oblatum, 7 mm longum, 11 mm latum, apice rostratum, costa leviter carinato-incrassata; alae sessiles, bilobatae, lobo basali ovato, apice obtuso, distali dolabriformi, apice acuto, dorsaliter auricula minore; labellum saccato-infundibulare cum calcaris 3.5 - 4 cm longum, limbo obliquo, 2.7 - 3 cm longo, 1.5 cm lato, antice mucronato, calcaris 0.8 - 1 cm longo incurvo attenuato, ad extremum acuto.; stamina 6 mm longa, filamentis filiformibus, antheris obtusis; ovarium lineare, 4 - 5 mm longum. Capsulae linearicylindricae, 3 - 4 cm longae, apice acutae.

Yunnan (云南): Gongshan (贡山), Dulongjiang (独龙江), alt. 1 800 m, in mixed forest 27 Aug. 1938, YüTe-Tsun (俞德浚) 19964 (Holotype in KUN); Cikai (茨开), Heipushan (黑普山) 6 Oct. 1940, Feng Kuo-Mei (冯国楣) 8216 (KUN).

本种近怒江凤仙花 (*I. sabwinensis* S. H. Huang) 但花粉红色或淡紫色, 侧生萼片 2, 偏斜宽卵形,

长 1 cm, 宽 0.8 cm, 外面及边缘被疏柔毛; 旗瓣扁圆形, 先端具喙, 中肋稍龙骨状增粗, 唇瓣囊状漏斗形, 连距长 3.5~4 cm, 易区别。

Specific epithet "yui" has been accepted in honour of the collector, late professor YŪTe-Tsun who served the Institute of Botany, Academia Sinica all his life.

5 片马凤仙花 (云南植物研究)

Impatiens pianmaensis S. H. Huang in Acta Bot. Yunnanica 25 (3): 267, fig. 4: 8-14 (2003).

Species haec habitu *I. begonifoliae* S. Akiyamae et H. Ohba similis, sed a qua floribus viridi-albis, minoribus; vexillo oblato, viridi, apice mucronato; lobo distali alae oblongo, dorsaliter exauriculato facile differt.

Herba annua, 60 cm alta. Caulis erectus, ramosus, angulatus, glaber, basi radicibus fibrosis numerosis instructus. Folia alterna, chartacea, ovato-oblonga vel elliptica, 6-11 cm longa, 2-4.5 cm lata, apice caudata, basi cuneata, leviter obliqua, interdum glandulis globosis 2 praedita, margine crenata, inter crenas mucronata praedita, supra viridia, parce albo-puberula, vel glabra, subtus virella, glabra, costa subtus prominens, nervis lateralibus multijugis; petiolus 0.2-1.2 cm longus, superus subsessilis. Pedunculi ex axillis foliorum superiorum edentes, graciles, 2-4 cm longi, 1-2-flori; pedicelli graciles, 2-5 cm longi, prope apicem bracteati; bractee lineares, 2 mm longae, virides. Flores minores, viridi-albi, 1.5 cm expansi; sepala lateralalia 2, ovato-lanceolata, leviter obliqua, viridia, 3-3.5 mm longa, 1.5-2 mm lata; vexillum oblatum, viride, 5 mm longum, 7 mm latum, apice mucronatum, costa dorso leviter anguste cristata; alae bilobatae, stipitatae, 1.8 cm longae, lobo basali ovato, apice obtuso, distali oblongo, eo basali 2.5-plo longiore, apice attenuato, leviter acuto, dorsaliter exauriculato; labellum cymbiforme, limbo 3.5 mm longo, 6 mm lato, antice rostro viridi 2.5 mm longo praedito, inferne in calcar 1.8 cm longum attenuatum, ad extremum obtusum; stamina 4 mm longa, filamentis filiformibus, antheris obtusis; ovarium oblongum, 3 mm longum, apice acutum. Capsulae immaturae lineares.

Yunnan (云南): Lushui (泸水), Pianma (片马), alt. 2300 m, 15 Jul. 1964, Wu Shu-Kung (武素功) 8060 (Holotype in KUN).

本种近秋海棠叶凤仙花 (*I. begonifolia* S. Akiyama et H. Ohba) 但花较小, 绿白色, 旗瓣扁圆形, 绿色, 先端具小尖头, 翼瓣上裂片长圆形。背面无耳易区别。

6 文山凤仙花 (云南植物研究)

Impatiens wenshanensis S. H. Huang in Acta Bot. Yunnanica 25 (3): 267-268, fig. 3: 1-7 (2003).

Species haec habitu *I. argutae* Hook. f. et Thoms. similis, sed a qua floribus flavis, sepalis exterioribus 2, oblique late ovatis, margine 2-3 aristato-dentatis; vexillo flabelliformi; labello profunde saccato, calcaris breviori facile differt.

Herba annua, 20-100 cm alta. Caulis erectus, circ. 4 mm diam., glaber, angulatus. Folia alterna, chartacea, elliptica vel oblongo-elliptica, 9-15 cm longa, 2.5-4.5 cm lata, apice acuminata vel caudata, basi cuneata, glandulis stipitatis 1-2-paribus instructa, margine crenata, supra parce puberula, subtus glabra, nervis lateralibus 6-7-paribus, arcuatis; petiolus 2-5.5 (-7) cm longus, glaber. Pedunculi ex axillis foliorum superiorum edentes, 4-5 cm longi, 1-2-flori; pedicelli 2.5-3 cm longi, basi bracteati: bractee ovato-lanceolatae, 3 mm longae. Flores cum calcaris 4-5 cm longi, flavi; sepala lateralalia 4, quarum 2 exteriora late ovata, obliqua, 1.2 cm longa, 0.8 cm lata, apice apiculata, basi cordata, margine 2-3 aristato-dentata vel subintegra, costa prominens, 2 interiora linearia, 1.8 cm longa, 1.5 mm lata, apice acuminata; vexillum flabelliforme, 2 cm longum, superne 2.5 cm latum, apice emarginatum, costa carinato-incrassata; alae 2.5-3 cm longae, bilobatae, lobo basali late ovato, apice

obtusum vel emarginatum, distali lobuliformi, apice obtuso, emarginato, eo basali 1.5-plo longiore, 1.4 cm lato, dorsaliter inconspicuo-auriculato; labellum profunde saccatum, flavum, purpureo-striatum, 2.5 - 3 cm longum, 2 cm latum, antice rostratum, inferne in calcar 5 - 6 mm longum incurvum attenuatum; stamina 7.5 mm longa, filamentis linearibus, 6 mm longis, antheris ovoideis, apice acutis; ovarium fusiforme, leviter recurvum, 6 mm longum, apice acutum. Capsulae immaturae.

Yunnan (云南): Wenshan (文山), Laojunshan (老君山), alt. 1 820 m, 23 Sept. 1992, Shui Yu-Min (税玉民) 0254 (Holotype in YUKU); ibid. alt. 2 200 m, Shui Yu-Min (税玉民) 0238, 3294, 3220. (YUKU).

本种近锐齿凤仙花 (*I. arguta* Hook. f.) 但本种花淡黄色, 外萼片 2, 宽卵形, 偏斜, 边缘常具 2~3 个芒状齿, 旗瓣扇形, 唇瓣深囊状, 距较短易区别。

7 老君山凤仙花 (云南植物研究)

Impatiens laojunshanensis S. H. Huang in Acta Bot. Yunnanica **25** (3): 268 - 269, fig. 5: 1 - 7 (2003).

Species haec habitu *I. cuonaensis* Y. L. Chen similis, sed a qua floribus majoribus; vexillo costato dorso leviter prominenti, lobo basali alae ovato, apice acuto, non capillari; labello infundibulari, calcar breviori incurvo attenuato facile differt.

Herba annua, 30 - 100 cm alta. Caulis erectus, ramosus, angulatus, glaber, basi radicibus fibrosis numerosis praeditus. Folia alterna, membranacea, elliptica vel ovato-elliptica, 4 - 10 cm longa, 2 - 3.5 cm lata, apice caudato-acuminata, basi late cuneata, glandulis stipitatis 1 - 2-paribus instructa, margine crenato-serrata, crenis mucronatis praeditis, supra viridia, parce albo-puberula vel glabra, subtus virella, secus nervos parce puberula vel glabra, nervis lateralibus 4 - 6-paribus; petiolus (0.5 -) 1.5 - 4 cm longus. Pedunculi solitarii ex axillis foliorum edentes, 1-flori; pedicelli graciles, 1 - 1.5 cm longi, in medio bracteati; bractea lineares, interdum deciduae. Flores flavi vel viridiflavi, 2 - 2.5 cm longi; sepala lateralalia 2, late ovata, circ. 8 mm longa, 6 mm lata, apice mucronata, basi subcordata, nervis numerosis; vexillum ellipticum, 1 cm longum, 0.6 cm latum, apice acutum, basi attenuatum, costa leviter incrassata; alae sessiles, 1.1 cm longae, bilobatae, lobo basali ovato, apice acuto, distali anguste oblongo, apice obtuso; labellum infundibulare, 1.4 cm longum, 1.2 cm latum, inferne in calcar breve, circ. 4 mm longum incurvum attenuatum; stamina 6 mm longa, filamentis linearibus, 3.5 - 4 mm longis, antheris ovoideis, apice obtusis; ovarium lineare, 4 - 5 mm longum, apice rostellatum. Capsulae immaturae lineares, 2 - 2.5 cm longae.

Yunnan (云南): Wenshan (文山), Laojunshan (老君山), alt. 1 830 m, 25 Sept. 1992, Shui Yu-Min (税玉民) 3115 (Holotype in YUKU); ibid. Shui Yu-Min (税玉民) 296; 0360 (YUKU).

本种近错那凤仙花 (*I. cuonaensis* Y. L. Chen) 但本种花较大, 旗瓣中肋稍增粗, 翼瓣基裂片卵形, 先端锐尖而非毛发状, 唇瓣漏斗形, 具内弯的较短的距而异。

8 麻栗坡凤仙花 (云南植物研究)

Impatiens malipoensis S. H. Huang in Acta Bot. Yunnanica **25** (3): 269 - 271, fig. 6: 8 - 15 (2003).

Species haec habitu *I. apalophyllae* Hook. f. affinis, sed a qua floribus albis; sepalis lateralibus 4, quarum 2 exterioribus ovato-lanceolatis, 2 interioribus linearibus; vexillo costato dorso ad medium leviter carinato-incrassato; labello saccato-infundibulari, calcar breviori; antheris leviter acutis, facile differt.

Herba annua, 70 cm alta. Caulis erectus, ramosus, angulatus, glaber. Folia alterna, chartacea, ovata usque elliptica vel oblonga, 4.5 - 11.5 cm longa, 2.5 - 4.5 cm lata, apice acuminata, basi late cuneata vel obtusa, margine crenata, crenis mucronatis praeditis, supra intense viridia, subtus virella, subglabra, nervis lateralibus 5 - 9-par-

ribus; petiolus 2 - 3.5 cm longus, circ. 1.5 mm diam. Pedunculi ex axillis foliorum superiorum edentes, 3 - 3.5 cm longi, 2 - 3-flori; pedicelli 1.5 - 2.5 cm longi, prope basin bracteati; bractea ovato-lanceolatae, 5 mm longae, basi 2 mm latae. Flores majores, albi, 3 - 3.5 cm longi; sepala lateralia 4, quarum 2 exteriora ovato-lanceolata, leviter obliqua, viridia, 8 mm longa, 4 mm lata, apice mucronata, costa prominula, basi obtusa, 2 interiora linearia, 13 mm longa, 2 mm lata, apice acuta, basi obtusa, alba, uninervia; vexillum obcordatum, 2 cm longum, 1.5 cm latum, apice mucronatum, basi attenuatum, costa ad medium leviter carinato-incrassata; alae sessiles, bilobatae, 2.5 - 3 cm longae, lobo basali ovato-oblongo, apice acuto, distali oblongo, apice leviter acuto, dorsaliter lunato-auriculato reflexo; labellum saccato-infundibulare, limbo 3 cm longo, 2.5 cm lato, obliquo, antice mucronato, calcar 0.8 - 1 cm longo incurvo attenuato, ad extremum acuto; stamina 7.5 mm longa, filamentis filiformibus, antheris leviter acutis; ovarium fusiforme, 5 mm longum, apice acutum, basi attenuatum. Capsulae clavatae, circ. 1.2 cm longae, apice 4 mm latae, basin versus attenuatae, seminibus 1 - 2.

Yunnan (云南): Malipo (麻栗坡), Yunling gongshe (云岭公社), alt. 1 400 m, in forest, 24 Jan. 1964, Wu Quarr An (武全安) 9883 (Holotype in KUN).

本种近大叶凤仙花 (*I. apalophylla* Hook. f.) 但本种花白色, 侧生萼片 4, 外萼片 2, 卵状披针形, 内萼片 2, 线形, 旗瓣中肋中部稍龙骨状增粗, 唇瓣囊状漏斗形, 距较短, 花药稍尖易区别。

9 版纳凤仙花 (云南植物研究)

Impatiens xishuangbannaensis S. H. Huang nom. nov. — *I. bannaensis* S. H. Huang sphaelmate in Acta Bot. Yunnanica 25 (3): 271, fig. 6: 1 - 7 (2003).

Species haec habitu *I. mengtzeanae* Hook. f. similis, sed a qua pedunculis brevioribus, 2 - 3-floribus; labello cymbiformi; vexillo costato, costa dorso anguste cristata, apice uncatro-rostrato facile differt.

Herba succulenta, 30 - 80 cm alta. Caulis erectus, robustus, circ. 5 mm diam., ramosus, leviter angulatus, glaber. Folia alterna, elliptica usque oblonga, 6.5 - 16.5 cm longa, 3 - 6.5 cm lata, apice acuminata, basi cuneata, glandulis stipitatis 1-paribus instructa, margine crenata, inter crenas setiformiter mucronata, supra viridia, glabra, subtus virella, parce albo-puberula vel subglabra, nervis lateralibus 9 - 11-paribus; petiolus 2 - 4 cm longus, superus brevis, circ. 0.5 mm longus, prope apicem glandulis conicis praeditus. Pedunculi ex axillis foliorum edentes, circ. 8 mm longi, 2 - 3-flori; pedicelli 1 - 1.5 cm longi, basi bracteati; bractea lineari-lanceolatae, 3.5 mm longae, apice acutae. Flores roseoli; sepala lateralia 2, ovato-oblonga, 0.8 - 1 cm longa, 5 - 6 mm lata, apice acuta, aristata, basi obtusa, margine 2 - 3 glandulo-serrata; vexillum ellipticum, 1.5 cm longum, 1 cm latum, apice uncatro-rostratum, costa dorso anguste cristata; labellum cymbiforme, limbo circ. 5 mm longo, 1.8 cm lato, calcar 3 cm longo leviter incurvo attenuato, ad extremum acuto; stamina 7.5 mm longa, filamentis filiformibus, antheris acutis; ovarium falcatum, circ. 8 mm longum, apice rostratum. Capsulae lineari-cylindricae, 1.2 cm longae, dense albo-puberulae.

Yunnan (云南): Xishuangbanna (西双版纳), Menglun (勐仑), Kongmingshan (孔明山), alt. 1 300 m, 15 Sept. 1959, Pei Sheng-Ji (裴盛基) 59 - 10175 (Holotype in KUN).

本种近蒙自凤仙花 (*I. mengtzeana* Hook. f.) 但本种总花梗较短, 具 2~3 花, 唇瓣舟状, 旗瓣背面上肋有狭鸡冠状突起, 先端具钩状的喙而异。

Note: Epithet "bannaensis" is a wrong spelling of "Xishuangbannaensis".

10 杏黄凤仙花 (云南植物研究)

Impatiens armeniaca S. H. Huang in Acta Bot. Yunnanica 25 (3): 271 - 273, fig. 7: 1 - 7 (2003).

Species haec habitu *I. erubescenti* Dunn similis, sed a qua floribus intense armeniicis, inferne purpureis; sepalis

lateralibus 2, late ovatis. Foliis late ovatis vel ovato-ellipticis facile differt.

Herba succulenta, 35 - 50 cm alta. Caulis erectus, robustus, angulatus, 8 - 10 mm diam., puberulus, basi radicibus fibrosis numerosis praeditus. Folia alterna, ovato-elliptica vel late ovata, 4.5 - 17.5 cm longa, 2.5 - 11 cm lata, apice acuta, basi cuneata vel obtusa, margine crenata, inter crenas interdum setulosa, supra viridia, puberula vel subglabra, subtus virella, secus nervos puberula, nervis lateralibus 7 - 9-paribus; petiolus 1 - 5 cm longus, prope apicem glandulis stipitatis 1-paribus praeditus. Pedunculi ex axillis foliorum superiorum edentes, 3.5 - 10 cm longi, 2 - 3-flori; pedicelli 1.6 - 1.8 cm longi, basi bracteati; bractea lineares, 3 mm longae. Flores intense armeniaci, inferne purpurei; sepala lateralia 2, late ovata, obliqua, 1 - 1.2 cm longa, 8 - 9 mm lata, apice mucronata, nervosa; vexillum orbiculare, apice emarginatum. 1.2 - 1.3 cm diam., costa dorso ad medium leviter cristata; alae 3 cm longae, bilobatae, lobo basali ovato, apice obtuso, distali oblongo-dolabriformi, apice obtuso, eo basali 2-plo longiore, dorsaliter reflexo suborbiculari-auriculato; labellum infundibulare, limbo 1.2 cm longo, 2 cm lato, antice mucronato, calcar 2.5 - 3 cm longo incurvo attenuato; stamina 7.5 mm longa, filamentis filiformibus, antheris obtusis; ovarium fusiforme, leviter incurvum, 6 mm longum, apice acutum. Capsulae immaturae.

Yunnan (云南): Yingjiang (盈江), Xima (昔马), alt. 950 ~ 1 220 m, Aug. 1985, Chu Wei-Ming *et al.* (朱维明等) 10554 (Holotype in YUKU).

本种近变红凤仙花 (*I. erubescens* Dunn) 但本种花深杏黄色, 下部紫色, 侧生萼片 2, 宽卵形。叶片宽卵形或卵状椭圆形, 易区别。

11 孙氏凤仙花 (云南植物研究)

Impatiens sunii S. H. Huang in *Acta Bot. Yunnanica* **25** (3): 273, fig. 5: 8 - 14 (2003).

Species haec habitu *I. piufanensis* Hook. f. similis, sed a qua foliis crasso-chartaceis, margine grosse triangulari-serratis; sepalis lateralibus ovato-oblongis, leviter crassis, apice acuminatis; vexillo orbiculari, apice uncatro-rostrato, costa dorso angusto-alata facile differt.

Herba annua, 30 - 50 cm alta. Caulis erectus, ramosus, angulatus, glaber. Folia alterna, crasso-chartacea, elliptica, 9.5 - 15 cm longa, 3.3 - 7.5 cm lata, apice acuminata vel caudata, basi late cuneata, margine parce grosse triangulari-serrata, supra intense viridia, subtus virella, utrinque glabra, nervis lateralibus 5 - 7 - (9)-paribus; petiolus 0.7 - 3 cm longus, inferus longior, superus subsessilis. Pedunculi ex axillis foliorum superiorum edentes, solitarii vel 2 - 3 fasciculati, 5 - 6 cm longi, graciles, (1) - 2 - 3-flori; pedicelli 1.5 - 3 cm longi, basi bracteati; bractea lanceolatae, 6 mm longae, apice acuminatae, glabrae. Flores flavi, 2.5 - 3 cm longi; sepala lateralia 2, ovato-oblonga, leviter crassa, 12 mm longa, 5 mm lata, apice acuminata, basi obtusa, nervis 7; vexillum orbiculare vel oblatum, 13 - 14 mm diam., apice uncatro-rostratum, basi leviter cordatum, costa dorso anguste alata; alae 2.3 cm longae, lobo basali orbiculari, apice rotundato, mucronato, distali dolabriformi, eo basali 2-plo longiore, dorsaliter lunato-auriculato; labellum infundibulare, limbo 12 mm longo, 17 mm lato, antice rostrato, calcar 14 mm longo incurvo subito constricto, ad extremum emarginato; stamina 7 mm longa, filamentis linearibus, 5.5 mm longis, antheris acutis; ovarium lineare, 5 mm longum, apice acutum. Capsulae immaturae lineares, 2 cm longae.

Yunnan (云南): Dagan (大关), Sanjiangkou (三江口), alt. 900 m, 10 Jun. 1973, Sun Bi-Sin (孙必兴) 0036958 (Holotype in YUKU).

本种近节块凤仙花 (*I. piufanensis* Hook. f.) 但本种叶厚纸质, 边缘具三角状粗齿, 侧生萼片卵状长圆形, 稍厚, 先端渐尖, 旗瓣圆形, 先端有钩状的喙, 背面中肋具狭翅易区别。

Specific epithet “Sunii” has been accepted in honour of the collector, late professor Sun Bi-Sin (1922 - 2002), who served the Department of Biology, Yunnan University all his life.

12 大关凤仙花 (云南植物研究)

Impatiens dagueanensis S. H. Huang in *Acta Bot Yunnanica* **25** (3): 273 - 274, fig. 2: 1 - 7 (2003).

Specis haec habitu I. nobilis Hook. f. similis, sed a qua floribus roseolis; sepalis lateralibus oblique late ovatis vel suborbicularibus, cucullato-incurvatis, vexillo costato dorso bicorniformiter prominenti; alis longioribus facile differt.

Herba annua, 50 - 60 cm alta. Caulis erectus, ramosus, angulatus, glaber. Folia alterna, saepe apicem caulis versus conferta, membranacea, oblongo-lanceolata, 7 - 12.5 cm longa, 2.5 - 3.5 cm lata, apice acuminata vel caudata, basi cuneata attenuata, margine crenis mucronatis praedita, supra viridia, parce albo-puberula, subtus virella, subglabra; petiolus valde brevis vel subsessilis. Pedunculi ex axillis foliorum superiorum edentes, 6.5 - 10 cm longi, graciles, glabri, 2-flori; pedicelli 5 - 10 mm longi, ad fructus elongati, basi bracteati; bractee ovato-lanceolatae, 2 mm longae, apice mucronatae. Flores majores, roseoli; sepalia lateralalia 2, valde oblique late ovata vel suborbicularia, cucullato-incurvata, 7 - 8 mm longa et lata, apice mucronata, basi obtusa, nervis numerosis, purpureo-viridia; vexillum orbiculare, 1.5 cm diam., apice emarginatum, costa carinato-incrassata, bicorniformiter prominenti; alae subsessiles, 2.5 cm longae, lobo basali ovato, apice leviter acuto, distali oblongo, eo basali 2-plo longiore, dorsalter sublunato-auriculato; labellum saccatum, limbo 1.7 cm longo, 1.5 cm lato, antice mucronato, calcar 1 cm longo incurvo attenuato, ad extremum bifido; stamina 6.5 mm longa, filamentis linearibus, antheris acutis; ovarium lineare, 4 mm longum. Capsulae lineari-cylindricae, 2 cm longae.

Yunnan (云南): Daguean (大关), Mogan (木杆), Sanjiangkou forestry (三江口林场), alt. 1 700 m, Sept. 1991, Wu Shu-kung (武素功) 0832 (Holotype in KUN); *ibid.* alt. 1 750 m, 13 Sept. 1987, Perfume Exped. (香料考察队) 870673 (KUN).

本种近高贵凤仙花 (*I. nobilis* Hook. f.) 但本种花粉红色, 侧生萼片偏斜宽卵形, 或近圆形, 兜状内折, 旗瓣背面中肋有 2 角状突起, 翼瓣较长而异。

13 永善凤仙花 (云南植物研究)

Impatiens yongshanensis S. H. Huang in *Acta Bot. Yunnanica* **25** (3): 274, fig. 7: 8 - 14 (2003).

Species haec habitu I. thiochroae Hand.-Mazz. similis, sed a qua foliis minoribus, ovatis, subsessilibus, racemis 2 - 3-floribus; sepalis lateralibus late ovatis vel suborbicularibus, leviter obliquis; vexillo costato dorso cristato facile differt.

Herba annua, 60 cm alta. Caulis erectus, ramosus, angulatus, glaber. Folia alterna, membranacea, ovata, 1 - 2.5 cm longa, 0.8 - 1.5 cm lata, apice leviter acuta vel obtusa, basi late cuneata vel leviter oblique cordata, margine crenata, supra viridia, subtus virella, utrinque glabra, nervis lateralibus inconspicuis; petiolus 1 cm longus, superus subsessilis. Pedunculi ex axillis foliorum edentes, 1.5 cm longi, graciles, glabri, 2 - 3-flori; pedicelli graciles, 0.8 - 1 cm longi, prope apicem bracteati; bractee lineares, 2 mm longae, glabrae. Flores minores, flavi; sepalia lateralalia 2, late ovata vel suborbicularia, leviter obliqua, 2.5 - 3 mm longa et lata, apice leviter acuta, basi leviter obtusa, costa dorso prominula; vexillum suborbiculare, 4.5 mm diam., costa dorso ad medium cristata; alae sessiles, 1 cm longae, bilobatae, lobo basali ovato-oblongo, apice leviter acuto, distali lineari-oblongo, eo basali 2-plo longiore, apice acuto, dorsalter parvo-auriculato; labellum cymbiforme, limbo 5 mm lato, calcar 1.7 cm longo leviter incurvo; stamina 4 mm longa, filamentis linearibus, antheris leviter acutis; ovarium lineare, 3.5 - 4 mm longum. Capsulae lineares vel subfusiformes, apice acuminatae, basi leviter angustae, 2 cm longae, ad medium 2.5 mm latae, seminibus 2 - 3.

Yunnan (云南): Yongshan (永善), Manan (马楠), alt. 2 450 m, Aug. 1960. Exped. of NE Yunnan

(滇东北考察队) 661 (Holotype in KUN).

本种近疏色凤仙花 (*I. thiochroa* H.-M.) 但叶较小, 卵圆形, 近无柄。总状花序 2~3 花, 侧生萼片宽卵形, 或近圆形, 稍偏斜, 旗瓣背面中肋有鸡冠状突起, 易区别。

14 绥江凤仙花 (云南植物研究)

Impatiens suijiangensis S. H. Huang in Acta Bot. Yunnanica **25** (3): 274-276, fig. 8: 1-7 (2003).

Species haec habitu *I. tenuibracteatae* Y. L. Chen similis, sed a qua floribus minoribus; vexillo subquadrato vel orbiculari, cucullato, costa leviter incrassata; labello anguste infundibulari, calcar 6 mm longo et stricto facile differt.

Herba annua, 50-80 cm alta. Caulis erectus, ramosus, angulatus. Folia alterna, chartacea, oblonga vel elliptica, 5.5-11 cm longa, 2.5-5.5 cm lata, apice caudato-acuminata, basi cuneata attenuata, glandulis stipitatis 1-2-paribus instructa, margine crenato-serrata, inter dentes setulosa, supra viridia, subtus virella, utrinque glabra; petiolus (1.5-) 2.5-5 cm longus. Pedunculi ex axillis foliorum superiorum edentes, 1.5-4.5 cm longi. 3-5-florini. Flores minores, purpurei; pedicelli 3-5 mm longi; bracteae lineari-lanceolatae, deciduae; sepal lateralialia 2, ovata, 4 mm longa, apice mucronata; vexillum subquadratum vel orbiculare, cucullatum, 4.5 mm longum, 4 mm latum, apice rotundatum, mucronatum, basi leviter cordatum, costa leviter incrassata; alae 8 mm longae, sessiles, bilobatae, lobo basali suborbiculari, apice acuto vel obtuso, distali lineari, apice acuto, eo basali subaequali; labellum anguste infundibulare cum calcar 1.2 cm longum, limbo 6 mm longo, 4 mm lato, antice rostrato, calcar 6 mm longo stricto; stamina 3.5 mm longa, filamentis filiformibus, antheris obtusis; ovarium fusiforme, 2.5 mm longum, apice acutum. Capsulae immaturae.

Yunnan (云南): Suijiang (绥江), Ershisigan (二十四杆), alt. 800 m, May 1973, Sun Bi-Sin (孙必兴) 0040518 (Holotype in YUKU).

本种近膜苞凤仙花 (*I. tenuibracteata* Y. L. Chen) 但花较小, 旗瓣近方形或圆形, 兜状, 中肋稍增粗, 唇瓣狭漏斗形, 距长 6 mm 而直, 易区别。

15 紫溪凤仙花 (云南植物研究)

Impatiens zixishanensis S. H. Huang in Acta Bot. Yunnanica **25** (3): 276, fig. 8: 8-15 (2003).

Species haec habitu *I. rubrorstriatae* Hook. f. similis, sed a qua floribus flavis, purpureis striatis; sepalis lateralibus 2, oblique anguste ovatis, costis dorso lunato-cristatis; vexillo orbiculari, apice triangulato-bilobato facile differt.

Herba annua, 40-60 cm alta. Caulis erectus, rare ramosus, angulatus, glaber. Folia alterna, saepe apicem caulis versus conferta, chartacea, ovata usque ovato-oblonga, 3.5-7.5 cm longa, 2-3 cm lata, apice acuminata vel caudata, basi cuneata attenuata, glandulis clavatis 1-2-paribus instructa, margine crenis mucronatis praedita, supra intense viridia, parce albo-puberula, subtus virella, glabra, nervis lateralibus 4-5-paribus, subtus proninulis; petiolus 1.5-2 cm longus, superus subsessilis. Pedunculi ex axillis foliorum superiorum edentes, 2-5.5 cm longi, graciles, glabri, 2 vel multiflori; pedicelli 0.5-1 cm longi, graciles, glabri, ad fructus elongati circ. 1.5 cm longi, prope apicem bracteati; bracteae lineares, 2.5 mm longae, caducae. Flores majores, flavi, purpureo-striati; sepal lateralialia 2, obliqua, anguste ovata, flavida, 0.9-1 cm longa, 0.6 cm lata, apice mucronata, basi attenuata, multinervia, costa dorso lunato-cristata; vexillum orbiculare, 1.5 cm diam., apice triangulato-bilobatum, ad medium purpureo-striatum; alae 2.5 cm longae, bilobatae, lobo basali suborbiculari, apice leviter acuto, purpureo-striato, distali late dolabriformi, eo basali 2.5-plo longiore, apice obtuso, prope basin purpureo-striato, dorsaliter parvo-auculato; labellum saccatum, limbo 2.5 cm longo, 1.5 cm lato, flavo, purpureo-striato, antice mucronato, calcar 1 cm longo incurvo subito constricto, ad extremum sagitato; stamina 6.5 mm longa, filamentis filiformibus, antheris obtusis;

ovarium lineare, 3 mm longum. Capsulae lineari-cylindricae, circ. 2 cm longae. Semina elliptica, 2.5 mm longa, fusca, tuberculata.

Yunnan (云南): Chuxiong (楚雄), Zixishan (紫溪山), alt. 2 000 m, Oct. 1998, Chen Weir Hong (陈文红) 0008 (Holotype in KUN).

本种近红纹凤仙花 (*I. rubro-striata* Hook. f.) 但本种花黄色, 有紫色条纹, 侧生萼片偏斜狭卵形, 背面中肋有新月形鸡冠状突起, 旗瓣圆形, 先端三角状二裂易区别。

16 滇南凤仙花 (云南植物研究)

Impatiens austroyunnanensis S. H. Huang in Acta Bot. Yunnanica **25** (3): 276 - 277, fig. 1: 9 - 15 (2003).

Species haec habitu *I. holocentrae* Hand.-Mazz. similis, sed a qua sepalis lateralibus 2, minoribus, ovato-deltoidis, leviter obliquis; labello anguste infundibulari, leviter obliquo facile differt.

Herba succulenta, 1.2 m alta. Caulis erectus, circ. 0.8 diam., ramosus, angulatus, glaber. Folia alterna, apicem caulis versus leviter conferta, membranacea, ovato-elliptica vel oblonga, 3 - 7 cm longa, 1.6 - 3 cm lata, apice caudato-acuminata, basi cuneata, glandulis stipitatis 2-paribus instructa, margine crenata, inter crenas setulosa, supra viridia, parce albo-puberula vel glabra, subtus virella, subglabra, nervis lateralibus 5 - 7-paribus; petiolus 0.7 - 1.5 cm longus, glaber. Pedunculi ex axillis foliorum superiorum edentes, 3 - 4 cm longi, glabri, 2 - 5-flori. Flores flavi; pedicelli 0.5 - 1 cm longi, glabri, basi bracteati; bractee lineari-lanceolatae, circ. 3 mm longae, apice acutae; sepalia lateralalia 2, ovato-deltoidia, 4 mm longae, basi 2.5 mm lata, leviter inaequilateralia, apice mucronata, nervis 3 - 5, costis leviter incrassatis; vexillum late ovatum usque orbiculare, 0.8 - 1 cm longum, 0.6 - 0.8 cm latum, apice mucronatum, basi rotundatum, costa carinato-incrassata; alae sessiles, bilobatae, 2 cm longae, lobo basali ovato, apice obtuso, distali lineari-lanceolato, eo basali 2.5-plo longiore, apice acuminato, dorsaliter inconspicuo-auriculato; labellum anguste infundibulare cum calcaribus circ. 2 cm longum, limbo 0.8 cm lato, antice apiculato, calcaribus stricto attenuato, ad extremum obtuso; stamina 4 mm longa, filamentis filiformibus, circ. 3 mm longis, antheris obtusis; ovarium lineare, circ. 3 mm longum, apice acutum, glabrum. Capsulae immaturae lineari-cylindricae, circ. 2 cm longae, apice acutae.

Yunnan (云南): Wenshan (文山), Laojunshan (老君山), alt. 2 450 m, in forest, 5 Aug. 1993 Shui Yü-Min (税玉民) 003306 (Holotype in YUKU); Jinping (金平), Maandi (马鞍底), Wutaishan (五台山), alt. 2 400 - 2 700 m, in forest 10 Sept. 1996, Wu Shu Kung *et al.* (武素功等) 3065, 3438, 3753 (KUN).

本种近同距凤仙花 (*I. holocentra* H.-M.) 但本种侧生萼片 2, 较小, 卵状三角形, 稍偏斜, 唇瓣狭漏斗形, 稍偏斜而异。

17 耳叶棒凤仙花 (云南植物研究)

Impatiens claviger Hook. f. var. *auriculata* S. H. Huang in Acta Bot. Yunnanica **25** (3): 277, fig. 9: 1 - 8 (2003).

A typo recedit foliis majoribus, obovato-oblongis, inferne attenuatis, basi auriculatis, petiolis brevissimis; floribus aureis (nec flavis), pupureo-punctatis valde insignis.

Yunnan (云南): Funing (富宁), Lida (里达), alt. 900 m, in forest, Aug. 1964, Wu Quan-An (武全安) 9653 (Holotype in KUN).

与原变种区别在于叶较大, 倒卵状长圆形, 下部渐狭, 基部耳状, 叶柄极短。花金黄色, 有紫色斑点而异。

18 狭萼凤仙花 (云南植物研究)

Impatiens lancispala S. H. Huang in Acta Bot. Yunnanica **25** (3): 277 - 278, fig. 9: 9 - 15 (2003).

Species haec habitu *I. mengtzeanae* Hook. f. valde affinis, sed a qua floribus minoribus; sepalis lateralibus 2, lanceolatis; alis stipitatis; vexillo costato dorso ad medium corniformiter prominenti facile differt.

Herba perennis, 50 cm alta. Rhizoma breve, ad nodos radicum. Caulis erectus simplex, angulatus, cinereo-puberulus. Folia alterna, apicem caulis versus saepe conferta, inferne nuda, chartacea, ovata vel ovato-oblonga, 6 - 11 cm longa, 2.5 - 4 cm lata, apice acuta, basi cuneata, attenuata, glandulis stipitatis 1 - 2-paribus instructa, margine parce serrata, dentis mucronatis praeditis, supra viridia, parce albo-puberula, subtus virella, secus nervos puberula; petiolus 1.5 - 2.5 cm longus, glandulis stipitatis 3 - 4 praeditis. Pedunculi ex axillis foliorum superiorum edentes, 2.5 - 3 cm longi, graciles, parce puberuli, 1 - 2-flori. Flores flavi, 2 - 3 cm longi; pedicelli circ. 2 cm longi, graciles, parce puberuli, basi bracteati; bractee lineares, 3 mm longae, albo-puberulae; sepala lateralibus 2, lanceolata, viridia, 7 mm longa, 2 mm lata, apice acuminata, extus puberula, 3-nervia; vexillum orbiculare, 1.3 cm diam., apice emarginatum, costatum dorso ad medium viride corniformiter prominens; alae stipitatae, bilobatae, 2 cm longae, lobo basali oblato, apice rotundato, rubro-punctato, distali dolabriformi, apice leviter acuto, eo basali leviter longiore, dorsaliter semiorbiculato-auriculato; labellum infundibulare, limbo 1 cm longo, rubro-striato, calcari 2.5 cm longo incurvo attenuato, ad extremum obtuso; stamina 7.5 mm longa, filamentis filiformibus, 6 mm longis, antheris obtusis; ovarium lineare, leviter incurvum, 5.5 mm longum, glabrum. Capsulae clavatae, circ. 1.2 cm longae, prope apicem leviter incrassatae, inferne attenuatae.

Yunnan (云南): Luchun (绿春), Xiaoheijiang (小黑江), Dafu to erfu (大甫至二甫), alt. 1 000 - 1 300 m, 25 Oct. 2000, in secondary forest, Shui Yü-Min et Chen Wen-Hong (税玉民、陈文红) 13922 (Holotype in KUN).

本种近蒙自凤仙花 (*I. mengtzeana* Hook. f.) 但本种花较小, 侧生萼片披针形, 翼瓣具柄, 旗瓣背面中肋中部角状突起而异。

19 宽瓣凤仙花 (云南植物研究)

Impatiens latipetala S. H. Huang in Acta Bot. Yunnanica **25** (3): 278 - 280, fig. 10: 8 - 16 (2003).

Species haec habitu *I. mengtzeanae* Hook. f. affinis, sed a qua floribus flavidis; vexillo costato dorso triangulato-cristato; lobo basali alae late obovato vel subquadrato, distali late dolabriformi, apice rotundato; labello infundibulari, calcari 2.5 - 3 cm longo facile differt.

Herba perennis, 50 cm alta. Rhizoma breve, radicibus fibrosis numerosis. Caulis erectus, simplex, internodiis brevioribus praeditis, leviter angulatus, parce albo-puberulus, ad nodos dense puberulus. Folia alterna, apicem caulis versus saepe conferta, chartacea, ovato-oblonga, vel oblongo-lanceolata, 4.5 - 10.5 cm longa, 1.2 - 2.5 cm lata, apice caudato-acuminata, basi cuneata, attenuata, glandulis stipitatis 2 - 3-paribus instructa, margine parce serrata, dentis mucronatis praeditis, supra viridia, subtus virella, utrinque glabra, vel parce albo-puberula, nervis lateralibus 7 - 11-paribus, supra leviter concavis, subtus leviter prominentibus; petiolus 1.3 - 3 cm longus. Pedunculi ex axillis foliorum superiorum edentes, 1.5 - 2 cm longi, graciles, glabri, 1-flori; pedicelli 1.7 cm longi, graciles, glabri, prope basin bracteati; bractee subulatae. Flores flavi, 3 - 4 cm expansi; sepala lateralibus 2, late ovata, viridula, glabra, 7 - 10 mm longa, apice rostrata, basi leviter cordata, obliqua, 5-nervia; vexillum orbiculare, 1.5 cm diam., apice emarginatum, basi leviter cordatum, costa dorso viridula triangulato-cristata, crista 3 mm alta; alae stipitatae, 3 cm longae, bilobatae, lobo basali late obovato vel subquadrato, apice rotundato, distali late dolabriformi, apice rotundato, inferne attenuatus, dorsaliter reflexo semiorbiculato-auriculato; labellum infundibulare, 3.5 - 4 cm

longum, limbo rubro-nervato, calcar 2.5 - 3 cm longo attenuato, ad extremum spiraliter recurvo, leviter rubro, parce puberulo; stamina 8.5 mm longa, filamentis linearibus, 5 - 6 mm longis, antheris cordatis, apice obtusis; ovarium lineare, 5 - 6 mm longum, apice acutum, glabrum. Capsulae lineari-cylindricae, circ. 2 cm longae, apice acutae, basi attenuatae, ad medium leviter incrassatae, 1.5 mm diam.

Yunnan (云南): Luchun (绿春), Xiaoheijiang (小黑江), Efu to banpo (二甫至半坡), alt. 1 300 m, near forest or road, 22 Oct. 2000, Shui Yu-Min et Chen Wen-Hong (税玉民、陈文红) 14033 (Holotype in KUN).

本种近蒙自凤仙花 (*I. mengtzeana* Hook. f.) 但本种花淡黄色, 旗瓣背面中肋有三角状鸡冠突起, 翼瓣基裂片宽倒卵形或近方形, 上裂片宽斧形, 先端圆形, 唇瓣漏斗形, 距长 2.5 ~ 3 cm, 易区别。

20 多枝凤仙花 (云南植物研究)

Impatiens multiramea S. H. Huang in Acta Bot. Yunnanica **25** (3): 280, fig. 10: 1 - 7 (2003).

Species haec habitu *I. mengtzeanae* Hook. f. affinis, sed a qua caulibus ramosis, foliis minoribus, ovatis vel ovato-ellipticis. Floribus minoribus, pedicellis brevioribus, 0.5 cm longis; lobo basali alae oblato, apice leviter acuto, distali ovato-triangularato, apice leviter acuto. Capsulis lineari-cylindricis facile differt.

Herba, 30 cm alta, glabra. Caulis erectus, ramosus, leviter angulatus. Folia alterna, apicem caulis versus saepe conferta, ovata vel ovato-elliptica, 3.5 - 6 cm longa, 1 - 2 cm lata, apice acuminata vel caudata, basi cuneata, margine parce serrata, dentis mucronatis praeditis, supra viridia, subtus virella, utrinque glabra, nervis lateralibus multijugis; petiolus brevis, 4 - 7 mm longus. Pedunculi solitarii ex axillis foliorum superiorum edentes, vel terminales, 1-flori; pedicelli breves, circ. 0.5 cm longi, basi brectati; bractea lanceolata; sepala lateralia 2, ovata, virella, 6 - 7 mm longa, 2.5 - 3.5 mm lata, parce albo-puberula, 5-nervia; vexillum orbiculari-quadratum, 1 cm longum, 0.9 cm latum, apice emarginatum, basi rotundatum vel truncatum, costa dorso ad medium viridi triangulari-cristata, crista 2 mm alta; alae stipitatae, bilobatae, 2.2 - 2.4 cm longae, lobo basali oblato, apice leviter acuto, distali ovato-triangularato, apice leviter acuto, dorsaliter reflexo semiorbiculato-auriculato; labellum infundibulare, 3.2 - 3.5 cm longum, limbo pupureo-striato, calcar 2.5 - 2.8 cm longo spiraliter recurvo attenuato, ad extremum leviter acuto; stamina 6.5 mm longa, filamentis linearibus, antheris ovoideis, apice leviter acutis; ovarium lineare, 5 mm longum, leviter recurvum, apice rostellatum. Capsulae lineari-cylindricae.

Yunnan (云南): Luchun (绿春), Xiaoheijiang (小黑江), Dafu to erfu (大甫至二甫), alt. 1 000 - 1 300 m, 25 Oct. 2000, Shui Yu-Min et Chen Wen-Hong (税玉民、陈文红) 13900 (Holotype in KUN).

本种近蒙自凤仙花 (*I. mengtzeana* Hook. f.) 但本种植物体多分枝, 叶较小, 卵形或卵状椭圆形。花较小, 花梗较短, 长 0.5 cm, 翼瓣基裂片扁圆形, 先端稍锐尖, 上裂片卵状三角形, 先端稍锐尖, 蒴果线状圆柱形, 易区别。