

Wang, Y.Z. 1995

Two new species of *Whytockia* (Gesneriaceae) from Yunnan.

*Acta Phytotax. Sin.* 33: 297-301. [In Chinese.]

REFNO: 2551

KEYWORDS:

China, *Whytockia*

To Prof. Dr. Laurance E. Skog  
from Wang Yinzheng

## 云南异叶苣苔属 (苦苣苔科) 二新种\*

王印政

(中国科学院植物研究所系统与进化植物学开放研究实验室, 北京 100093)

### TWO NEW SPECIES OF *WHYTOCKIA* (GESNERIACEAE) FROM YUNNAN

Wang Yin-zheng

(Laboratory of Systematic & Evolutionary Botany, Institute of Botany, Chinese Academy of Sciences, Beijing 100093)

**Key words** *Whytockia*; *W. purpurascens* Y. Z. Wang; *W. hekouensis* Y. Z. Wang

**关键词** 异叶苣苔属; 紫红异叶苣苔; 河口异叶苣苔

#### 1 紫红异叶苣苔 新种 图 1: 1—8

*Whytockia purpurascens* Y. Z. Wang, sp. nov.

Affinis *W. sasakii* (Hayata) Burtt, a qua pedunculis, pedicellis omnino purpureo-pubescentibus et purpureo-glandulosis, foliis purpureo-pubescentibus, subtus purpureis, calycis segmentis angustioribus, longioribus, corolla caesio-purpurella, stylo ovario ultra 2-plo longiore, stigmatibus ellipticis vel reniformi-ellipticis differt.

Herba perennis. Caules repentes, ad nodos radicales, succulenti, solum superne ascendentes, superne purpureo-pubescentes et purpureo-glandulosi, inferne glabrescentes. Folia opposita, per paria valde inaequalia; ea normalia breviter petiolata vel sessilia; lamina tenuiter herbacea, oblique ovata vel ovato-oblonga, 6—14 cm longa, 3.3—6.7 cm lata, apice acuta vel obtusiuscula, basi in latere angusto cuneata, in latere lato rotundata vel auriculata, margine subintegra vel indistincte repando-crenata, purpureo-pubescentis et glandulosa, supra purpureo-pilosa, subtus purpurea et purpureo-pubescentis, nervis lateralibus in latere lato 7—12, in latere angusto 5—8; ea reducta sessilia, ovata vel late ovata, 0.3—1.3 cm longa. Cymae terminales vel axillares, 6—10 cm longae, 2—12-florae; pedunculi 2.6—4 cm longi cum pedicellis purpureo-pubescentibus et purpureo-glandulosis; pedicelli 0.7—2 cm longi. Calyx

\* 本项工作得到中国科学院院长基金资助。

本文承蒙洪德元研究员, 李振宇研究员, 潘开玉副研究员指导, 承蒙王文采研究员, 杨亲二副研究员审阅并修改拉丁文, 特此致谢。

1994-06-02 收稿。

4—6 mm longus, campanulatus, ad basin 5-sectus, extus purpureo-pubescentis et purpureo-glandulosus, intus glaber, segmentis leviter inaequalibus, anguste oblongis vel ovato-lanceolatis, 3.5—5.5 mm longis, 1—1.7 mm latis, apice acutis vel obtusis. Corolla caesio-purpurella, 1.5—1.8 cm longa, extus glabra, intus infra faucem inter lobos anteriores pilis bifariis luteo-iridulis claviformibus et inter lobos anteriores et posteriores pilis purpureis claviformibus sparsis tecta, tubo circ. 8 mm longo, labio postico 2.5 mm longo, ultra medium 2-fido, lobis late ovatis, labio antico 5—7 mm longo, 3-partito, lobis ovatis vel obovatis. Stamina 4, filamentis ad 1.6—2 mm supra basin corollae insertis, superne pubescentibus, ad extremitates incrassatis ciliatis, posticis 3 mm longis, anticis 4.5 mm longis, apice appendiculatis, antheris 0.9 mm latis, pubescentibus. Staminodium late ovoideum, 0.8 mm longum. Discus 0.3 mm altus. Pistillum 5—6.5 mm longum, glabrum, ovario globoso, 1.2 mm longo, stylo 4—4.7 mm longo ovario ultra 2-plo longiore, stigmatibus transversaliter elliptico vel reniformi-elliptico, circ. 1 mm diam. Capsula globosa, 3—4 mm diam., glabra, calyce persistente omnino inclusa. Semina ellipsoidea.

**Yunnan** (云南): Hekou (河口), Yuemaji (约马几), alt. 1300 m, by stream in shady and moist places, 1993-08-08, Y. Z. Wang (王印政), Z. J. Yan (严志坚) 93021 (holotype, PE); Same locality, 1992-11-28, Y. Z. Wang (王印政), Z. H. Ji (吉占和) 92082 (PE); 1993-08-24, Y. M. Shui (税玉民) 003612 (PE).

多年生草本。茎肉质，仅上部渐升，在节处生根，下部无毛，上部被紫色短柔毛和紫色短腺毛。叶对生，极不等大；正常叶具短柄或无柄，叶片薄草质，斜卵形或斜卵状长圆形，长6—14 cm，宽3.3—6.7 cm，顶端急尖或微钝，基部在狭侧楔形，在宽侧圆形或耳状，叶近全缘或边缘有不明显的波状钝齿，密被紫色短柔毛和腺体，叶表面被紫色和紫褐色疏柔毛，背面紫红色，被紫色短柔毛，叶脉在狭侧5—8条，在宽侧7—12条；退化叶无柄，卵形或宽卵形，长0.3—1.3 cm。花序长6—10 cm，有2—12花；花序梗长2.6—4 cm，和花梗被紫色短柔毛和紫色短腺毛，花梗长0.7—2 cm。花萼长4—6 mm，钟状，5裂达近基部，外面被疏紫色短柔毛和紫色短腺毛，裂片狭长圆形或卵状披针形，稍不等大，长3.5—5.5 mm，宽1—1.7 mm，顶端锐尖或钝。花冠淡蓝紫色，长1.5—1.8 cm，外面无毛，内面在喉部之下，下唇裂片之间被两列黄绿色的棍棒状毛，下唇与上唇裂片之间被稀疏紫色棍棒状毛，花冠筒距基部1 mm处被柔毛；冠筒长约0.8 cm；上唇长约2.5 mm，2裂稍过中部，裂片宽卵形；下唇长5—7 mm，3深裂，裂片卵形至倒卵形。能育雄蕊4，着生于距花冠基部1.6—2 mm处，上方花丝长约3 mm，下方花丝长约4.5 mm，花丝上部和花药被短柔毛，花丝先端渐增粗被缘毛，花丝顶端突出形成顶端截形的附属物，在下方雄蕊上附属物长达0.7 mm，花药宽约0.9 mm；退化雄蕊宽卵形，长0.8 mm。花盘高0.3 mm。雌蕊长5—5.6 mm，无毛；子房球形，长约1.2 mm；花柱长4—4.7 mm，超过子房长度的2倍以上；柱头横椭圆形或肾状椭圆形，直径约1 mm。蒴果球形，直径3—3.5 mm，被宿存萼片完全包藏。种子椭圆球形。花期7—12月，果期12—1月。

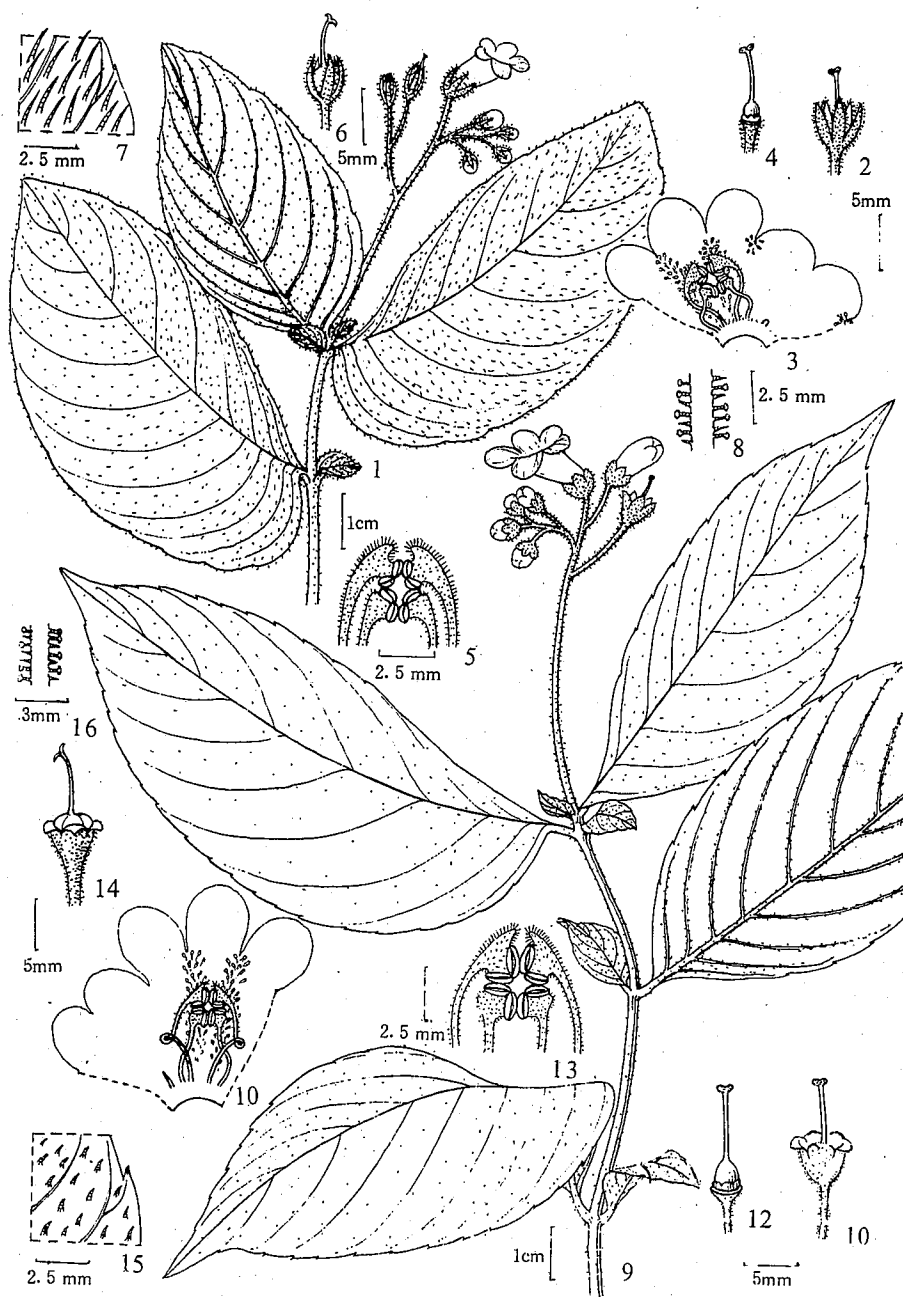


图1 1—8. 紫红异叶苣苔 1. 花枝; 2. 花萼; 3. 花冠剖开; 4. 花盘和雌蕊; 5. 雄蕊; 6. 宿存花萼及蒴果; 7. 叶表面一部分; 8. 茎上部、花序梗及花梗上的短柔毛及腺毛。9—16. 河口异叶苣苔; 9. 花枝; 10. 花萼; 11. 花冠剖开; 12. 花盘和雌蕊; 13. 雄蕊; 14. 宿存花萼及蒴果; 15. 叶表面一部分; 16. 茎上部、花序梗、花梗的短柔毛及腺毛。(张泰利绘)

Fig. 1 1—8. *Whytockia purpurascens* Y. Z. Wang 1. flowering branch; 2. calyx; 3. opened corolla; 4. disk and pistil; 5. stamens; 6. persistent calyx and capsule; 7. a part of leaf surface; 8. glandular and pubescent hairs of peduncle and pedicel. 9—16. *Whytockia hekouensis* Y. Z. Wang; 9. flowering branch; 10. calyx; 11. opened corolla; 12. disk and pistil; 13. stamens; 14. persistent calyx and capsule; 15. a part of leaf surface; 16. glandular and pubescent hair of peduncle and pedicel.

本种和 *W. sasakii* (Hayata) Burt 接近, 但花序梗, 花梗被紫色短柔毛和紫色短腺毛, 叶表面被紫色疏柔毛, 叶背面紫红色, 花萼裂片较狭长, 花冠淡蓝紫色, 花柱较长, 超过子房的 2 倍以上, 柱头横椭圆形或肾状椭圆形而明显不同。

河口异叶苣苔 新种 图 1: 9—16

*Whytockia hekouensis* Y. Z. Wang, sp. nov.

Affinis *W. tsiangiana* (Hand. -Mazz.) A. Weber, a qua calyce longiore, extus puberulo et glanduloso, lobis apice recurvatis, corolla rubella, majore, filamentis ad 2.5—3 mm supra basin corollae insertis, longioribus, apice appendiculatis dentatis, staminodio 1.5 mm longo, stylo ovario ultra 2-plo longiore differt.

Herba perennis. Caules succulenti, 20—40 cm alti, saepe simplices, 5—7-nodes, inferne glabrescentes, superne brunneolo-pubescentes et glandulosi. Folia opposita, per paria valde inaequalia; ea normala breviter petiolata vel subsessilia; lamina tenuiter herbacea, oblique oblonga vel ovato-oblonga, 4—13 cm longa, 2—5 cm lata, apice acuminata, basi in latere angusto cuneata, in latere lato late cuneata, rotundata vel subcordata, margine irregulariter remote repando-serrata et glandulosa, supra serraturam obscure setaceo-denticulata, supra sparse pubescens, subtus ad nervos pubescens, nervis lateralibus in latere lato 8—11, in latere angusto 4—6; petioli 2—5 mm longi, inferiores ad 10 mm longi; ea reducta sessilia vel subsessilia, late ovata vel ovata, 0.8—2.5 cm longa. Cymae terminales vel axillares, 4—10 cm longae, 2—8-florae; pedunculi 2—5 cm longi, cum pedicellis pubescentes et glandulosi; pedicelli 0.6—1.9 cm longi, post anthesin ad extremitates incrassati. Calyx circ. 4.5 mm longus, campanulatus, usque infra medium 5-fidus, extus puberulus, intus glaber, lobis late ovatis vel ovato-triangularibus, 3 mm longis, 2.5—3 mm latis, apice obtusis vel acutis, recurvatis. Corolla rubella, 1.8—2.1 cm longa, extus glabra, intus infra faucem inter lobos anticoş pilis bifariis luteo-viridulis claviformibus tecta, tubo circ. 10 mm longo, labio postico 3 mm longo ad medium 2-fido, lobis semiorbicularibus, labio antico circ. 6 mm longo, 3-partito, lobis ovatis. Stamina 4, filamentis ad 2.5—3 mm supra basin corollae insertis, linearibus, superne pubescentibus, ad extremitates ciliatis, anticis 6.5 mm longis, prope medium geniculatis, apice appendiculatis (appendicibus dentiformibus, ad 1.1 mm longis), posticis circ. 4 mm longis, antheris 1.2 mm latis, pubescentibus. Staminodium lineare, circ. 1.5 mm longum. Discus circ. 0.5 mm altus. Pistillum circ. 9 mm longum, ovario ovoideo, circ. 1.8 mm longo, stylo circ. 6 mm longo ovario ultra 2-plo longiore, stigmate transversaliter elliptico, circ. 1.5 mm diam. Capsula depresso globosa, 4 mm longa, 5—6 mm diam.; glabra, calyce persistente inclusa, solum apice exserta.

**Yunnan** (云南): Hekou (河口), Yuemaji (约马几), alt. 1300 m, by stream in shady and moist places, 1992-11-28, Y. Z. Wang (王印政), Z. H. Ji (吉占和) 92073 (holotype, PE); Same locality, 1993-08-08, Y. Z. Wang (王印政), Z. J. Yan (严志坚) 93019 (PE); 1993-08-25, Y. M. Shui (税玉民) 003613 (PE).

多年生草本。茎肉质, 高 20—40 cm, 常不分枝, 具 5—7 节, 下部无毛, 上部被褐

色短柔毛和短腺毛。叶对生,极不等大;正常叶有短柄或近无柄,叶薄草质,斜长圆形或卵状长圆形,长4—13 cm,宽2—5 cm,顶端渐尖,基部在宽侧宽楔形,圆形或近圆形,在狭侧楔形,边缘有不规则稀疏锯齿和腺体,锯齿上有不明显的细齿,叶表面疏被短柔毛,背面沿叶脉被短柔毛,侧脉在宽侧8—11条,在狭侧4—6条,叶柄长2—5 mm,茎下部有时可达1 cm,退化叶无柄或近无柄,宽卵形至卵形,长0.8—2.5 cm。聚伞花序顶生或腋生,长4—10 cm,2—8朵花;花序梗长2—5 cm,和花梗被短柔毛和腺毛,花梗长0.6—1.9 cm,花后先端增粗。花萼长约4.5 mm,钟形,5裂至中部以下,外面疏被短柔毛和腺毛,内面无毛,裂片宽卵形或卵状三角形,长3 mm,宽2—3 mm,顶端钝或锐尖,向外反曲。花冠粉红色,长1.8—2.1 cm,外面无毛,内面在下唇裂片之间的喉部以下有2列黄绿色棍棒状毛,上唇长3 mm,2裂至中部,裂片半圆形,下唇长约6 mm,3深裂,卵形。能育雄蕊4,着生于距花冠基部2.5—3 mm处,花丝线形,上部被短柔毛,先端被缘毛,前方花丝长约6.5 mm,近中部膝状弯曲,后方花丝长约4 mm,花药宽1.2 mm,被柔毛,花丝顶端突出形成齿状附属物,在前方花丝上长达1.1 mm;退化雄蕊线形,长约1.5 mm。花盘高0.5 mm。雌蕊长约9 mm;子房卵球形,长约1.8 mm;花柱长约6 mm,超过子房的2倍以上;柱头横椭圆形。蒴果扁球形,长4 mm,直径5—6 mm,无毛,被宿存花萼包藏,仅顶端露出。种子椭圆球形。花期7—12月。果期12—1月。

本种接近 *W. tsiangiana* (Hand.-Mazz.) A. Weber, 但花萼较长,外面疏被短柔毛和腺毛,裂片顶端向外反曲,花冠粉红色,较大,花丝较长,着生于距花冠基部2.5—3 mm处,花丝顶端突出成长可达1.1 mm的齿状附属物,退化雄蕊长达1.5 mm,花柱长度超过子房的2倍以上而明显不同。