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广西、贵州苦苣苔科新植物(续二)

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NEW PLANTS OF GESNERIACEAE FROM GUANGXI
AND GUIZHOU OF CHINA (CONT. II)

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Key words Gesneriaceae; *Paraboea*; *P. clavise-pala*; *P. nutans*; *P. peltifolia*; *P. tribracteata***关键词** 苦苣苔科; 蛛毛苣苔属; 棒萼蛛毛苣苔; 垂花蛛毛苣苔; 盾叶蛛毛苣苔; 三苞蛛毛苣苔

1 棒萼蛛毛苣苔 新种 图 1:1~4

Paraboea clavise-pala D. Fang et D. H. Qin, sp. nov.Affinis *P. rufescenti* (Franch.) Burt. sed foliorum nervis lateralibus utrinsecus 11~14; cymis haud umbelliformibus; calycis segmentis in sicco coriaceis, spatulatis vel suboblongis; corollis 18 mm longis differt.

Herba perennis. Caulis 17~50 cm altus, lanatus, saepe prope apicem foliatus, inferne basibus foliorum delapsorum praeditus. Folia opposita, oblonga vel longe elliptica raro ovata, 4.5~29cm longa, 2.5~10 cm lata, apice acuta, basi late cuneata vel rotundata, margine serrata, supra dense albo-strigulosa et primo arachnoidea, subtus densissime fumigato-lanata, nervis lateralibus utrinsecus 11~14; petioli 0.5~10.5cm longi, supra anguste alati, basi amplexicaules, lanati. Cymae terminales, 2~3-ramosae, multiflorae; pedunculi (4~) 6~16 cm longi, lanati; bractee oppositae, ovatae, 0.7~2.5 cm longae, margine saepe serratae, extus lanatae. Calyx ad basin 5-sectus, segmentis in sicco spatulatis vel suboblongis 3~4 mm longis coriaceis glabris. Corolla alba, 18 mm longa, 15 mm in diam.,

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XI



图1 1~4 棒萼蛛毛苣苔; 5~9 三苞蛛毛苣苔 1. 着花植株; 2, 7. 花; 3, 8 花冠展开; 4, 9. 花萼及雌蕊;
5. 一片叶子; 6. 花序。(廖信佩绘)

Fig. 1. 1~4 *Paraboea clavisepala*; 5~9 *P. tribracteata* 1. flowering plant; 2, 7. flower; 3, 8. corolla opened up;
4, 9. calyx and pistil; 5. leaf; 6. inflorescence.

glabra; tubo 10 mm longo; Labio postico 6 mm longo 2-lobato, lobis 6 mm latis, eoantico 8 mm longo 3-lobato, lobis 7~8 mm latis, apice rotundatis. Stamina 2, filamentis c. 5 mm longis s-formibus superne turgidis in latere interno glanduloso-puberulis, antheris ellipsoideis

4 mm longis; staminodia 2, glabra, 2 mm longa. Pistillum glabrum, ovario c. 6 mm longo, stylo c. 3 mm longo, stigmatē capitato.

Guangxi(广西): Napo(那坡), alt 800 m, on limestone, sepals green fleshy claviform or obovoid, 1985-07-11, D. Fang & D. H. Qin (方鼎和覃德海) 79619 (holotype, GXMI).

茎高 17~50 cm, 被毡毛, 常在近顶端着叶, 下部具残存的叶基。叶对生, 长圆形或长椭圆形, 稀卵形, 长 4.5~29 mm, 宽 2.5~10 cm, 顶端急尖, 基部宽楔形或圆形, 边缘具锯齿, 上面密被白色小糙伏毛和脱落的蛛丝状毛, 下面密被灰褐色毡毛, 侧脉每边 11~14 条, 叶柄长 0.5~10.5 cm, 上面具狭翅, 基部抱茎, 被毡毛。聚伞花序顶生, 2~3 次分枝, 每花序有花多朵; 花序梗长(4~)6~16 cm, 被毡毛; 苞片对生; 卵形, 长 0.7~2.5 cm, 边缘常具锯齿, 背面被毡毛。花萼 5 裂达基部, 裂片干时匙形或近长圆形, 长 3~4 mm, 宽 0.5~1.5 mm, 革质, 无毛。花冠白色, 长 18 mm, 直径 15 mm, 无毛; 筒长 10 mm; 上唇长 6 mm, 2 裂, 裂片宽 6 mm, 下唇长 8 mm, 3 裂, 裂片宽 7~8 mm, 顶端圆形。雄蕊 2, 花丝长约 5 mm, S 状, 上部稍粗, 内侧被腺状短柔毛, 花药椭圆形, 长 4 mm; 退化雄蕊 2, 无毛, 长 2 mm。雌蕊无毛, 子房长约 6 mm, 花柱长约 3 mm, 柱头头状。

本种接近锈色蛛毛苣苔 *P. rufescens* (Franch.) Brutt, 但叶的侧脉每边 11~14 条; 聚伞花序非伞状; 萼裂片干时革质, 匙形或近长圆形, 花冠长 18 mm。

2 垂花蛛毛苣苔 新种 图 2:1~5

Paraboea nutans D. Fang et D. H. Qin, sp. nov.

Species habitu *p. mahaxayanae* Xu et Burtt proxima. quae bracteis anguste ovatis, 3 mm longis; infructescentiis vulgo foliis longioribus, pedunculis tenuibus, fructibus aliquot; capsulis 5~8 mm longis, tortis differt.

Herba perennis. Folia basalia, obovata. (2.7~)4~16.5 cm longa, (1.5~)2.8~8.8 cm lata, apice rotundata vel obtusa, basi attenuata vel late cuneata, margine crenata vel subintegra supra primo arachnoidea subtus densissime cineraceo-vel fumigato-lanata, juvenitute secus costam et nervos laterales et margines ferrugineo-sericea, nervis lateralibus utrinsecus 7~11; petioli 0.5~3 cm longi, raro subnulli, supra canaliculati, lanati. Cymae axillares, 1~2-ramosae, c. 5~12-florae; pedunculi 2.5~9 cm longi, tomentosi; bractee oppositae, oblongae, 5~8 mm longae, extus tomentosae. Flores nutantes. Calyx ad basin 5-sectus segmentis oblongis vel lanceolato-oblongis 5~6 mm longis extus plus minusve tomentosus. Corolla purpureo-caerulea, 10~11 mm longa, 15~16 mm in diam., extus glabra; tubo c. 7 mm longo; labio postico 3 mm longo 2-lobato, eo antico 4 mm longo 3-lobato, lobis 7 mm latis apice rotundatis. Stamina 2, filamentis c. 2 mm longis curvis superne turgidis in intus latere glanduloso-puberulis, antheris reniformibus 3 mm longis; staminodia 3, glabra, lateralia duo 1.5 mm longa, medianum 1 mm longum. Pistillum glabrum, ovario c. 5 mm longo, stylo 6~7 mm longo, stigmatē capitato. Infructescentiae foliis breviores. pedunculis robustis, fructibus saepe densis. Capsulae 10~25 mm longae c. 2 mm crassae, glabrae, in valvas 4 dehiscentes, non tortae.

Guangxi(广西): Napo(那波), alt. 900~1150 m, on limestone, H. S. Lo, D. Fang &

o c. 6 mm longo,

fleshy claviform
holotype, GXMI).

生,长圆形或长
圆形,边缘具锯
脉每边 11~14
~3 次分枝,每
~2.5 cm,边缘
~4 mm,宽 0.5
mm;上唇长 6
~2,花丝长约
~2,无毛,长 2
1~14 条;聚

te ovatis, 3
bus aliquot;

2.8~8.8

renata vel

ta, juven-

bus utrin-

mae axil-

ctae op-

basin 5-

etomen-

glabra;

o, lobis

gidis in

glabra,

5 mm

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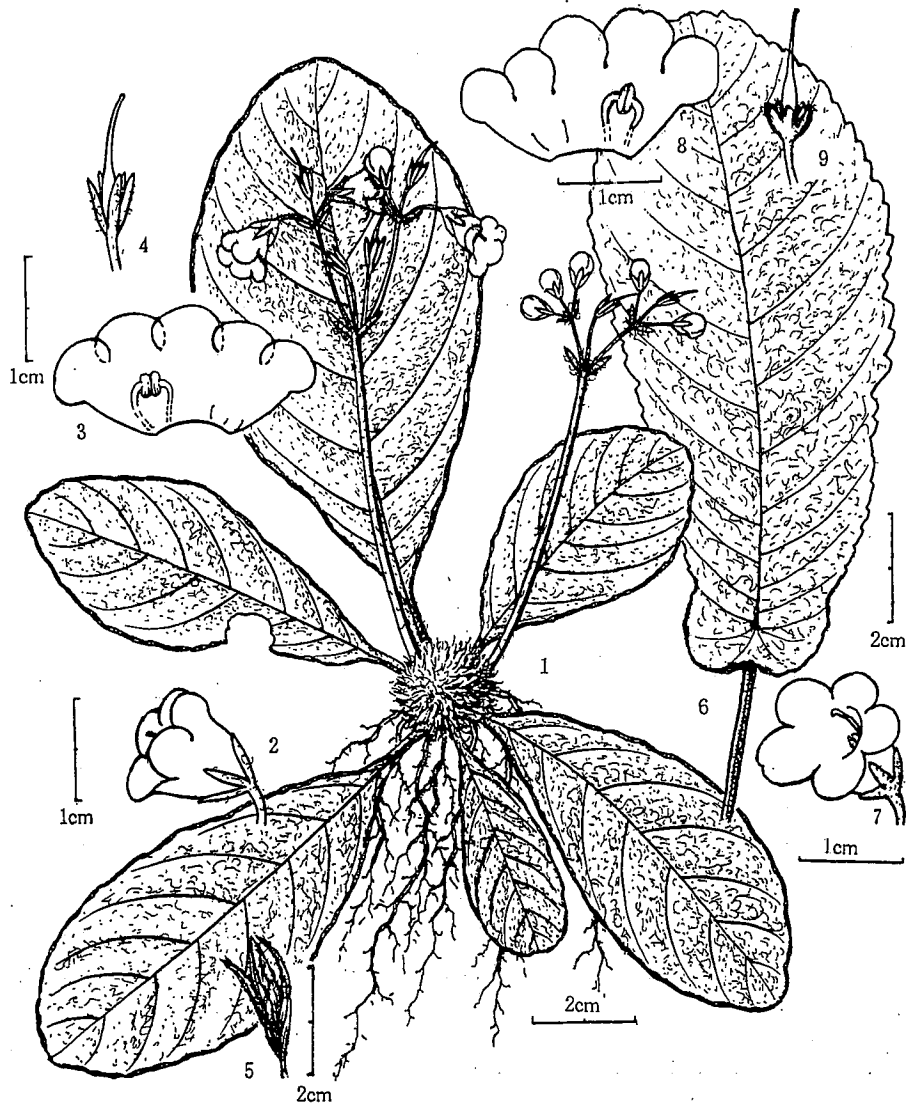


图2 1~5 垂花蛛毛苣苔;6~9 盾叶蛛毛苣苔 1. 着花植株;2,7. 花;3,8. 花冠展开;4,9. 花萼及雌蕊;
5. 果;6. 一片叶子。(廖信佩绘)

Fig. 2 1~5 *Paraboea nutans*; 6~9. *P. peltifolia* 1. flowering plant; 2, 7. flower; 3, 8. corolla opened up;
4, 9. calyx and pistil; 5. fruit; 6. leaf.

S. P. Xu (罗献瑞、方鼎和徐少平) 25217; ibidem, 1985-07-12, D. Fang & D. H. Qin 79634
(holotype, GXMI).

叶基生,倒卵形,长(2.7~)4~16.5 cm,宽(1.5~)2.8~8.8 cm,顶端圆形或钝,基部渐狭至宽楔形,边缘具圆钝齿或近全缘,上面初时被蛛丝状毛,下面密被灰白色至淡褐色毡毛,嫩时沿中脉、侧脉和边缘被锈色绢毛,侧脉每边 7~11 条;叶柄长 0.5~3 cm,稀近无柄,上面具槽,被毡毛,聚伞花序腋生,1~2 次分枝,每花序约有 5~12 花,花序梗长 2.5~9 cm,被绒毛;苞片对生,长圆形,长 5~8 mm,外面被绒毛;花俯垂。花萼 5 裂达基部。

裂片长圆形或披针状长圆形,长5~6 mm。外面多少被绒毛。花冠紫蓝色,长10~11 mm,直径15~16 mm,外面无毛;筒长约7 mm:上唇长3 mm,2裂,下唇长4 mm,3裂,裂片宽7 mm,顶端圆形。雄蕊2,花丝长约2 mm,弯曲,上部稍粗,内侧被腺状短柔毛。花药肾形,长3 mm,退化雄蕊3,无毛,两侧2枚长1.5 mm,中间的长1 mm。雌蕊无毛,子房长约5 mm,花柱长6~7 mm,柱头头状。果序短于叶,具粗的果序梗和常密集的果实。蒴果长10~25 mm,粗约2 mm,无毛,纵裂成4瓣,不旋扭。

本种颇接近老挝的 *P. mahaxayana* Xu et Burtt,但后者苞片狭卵形,长3 mm;果序常长于叶,具极细的果序梗和稀少的果;蒴果长5~8 mm,旋扭。

3 盾叶蛛毛苣苔 牛耳菜(广西马山) 新种 图2:6~9

Paraboea peltifolia D. Fang et L. Zeng, sp. nov.

Species foliis saepe obovatis, basi peltato-auriculatis, nervis lateralibus utrinsecus 11~18; calycibus bilabiatis bene insignis.

Herba perennis. Caulis 2~7 cm altus, 5~10 mm crassus. Folia spiralia, obovata, oblanceolata, spatulata vel subpandurata, 6~33.5 cm longa, 3~14.3 cm lata, apice rotundata vel obtusa, basi peltato-auriculata raro cordatula, subtruncata vel cuneata, margine irregulariter crenato-serrata, supra primo arachnoidea subtus densissime cineraceo-vel fumigato-lanata, nervis lateralibus utrinsecus 11~18; petioli 1~9 cm longi, supra canaliculati, lanati. Cymae interdum umbellatae, axillares, 1~2-ramosae, c. 2~15-florae; pedunculi 4~6 cm longi. lanati; bractee oppositae, lanceolato-triangularae, 2~3 (~4) mm longae, lanatae. Calyx c. 3.5 mm longus, extus lanatus, bilabiatus, labio postico 2-dentato, dentibus c. 0.7 mm longis, eo antico 3-fissus, segmentis c. 2 mm longis. Corolla alba, 14 mm longa, 15 mm in diam., extus glabra; tubo 7 mm longo, 7 mm in diam.; labio postico 5 mm longo 2-secto, lobis 5 mm latis, eo antico 7 mm longo 3-partito, lobis 7 mm latis lateralibus duobus extus lilacinis apice rotundatis medianis retusis. Stamina 2, filamentis luteis 3 mm longis curvis superne turgidis glabris, antheris reniformibus 3 mm longis; staminodia 2, glabra, 2 mm longa. Pistillum inferne dense superne sparse lilacino-lanatum, ovario c. 5 mm longo, stylo 7 mm longo, stigmatibus parvis capitatis. Capsulae 10-36 mm longae, 2~3 mm crassae, juventute extus lanatae, maturitate in valvas 4 dehiscentes, non tortae.

Guangxi (广西): Mashan (马山), on limestone, 1978-05-13, Exped. Mashan 2-435; ibidem, alt. 340~360 m, 1993-03-26, D. Fang & L. Zeng (方鼎、曾玲) 31379 (holotype, GXMI; isotype, GXMN *).

茎高2~7 cm,粗5~10 mm。叶螺旋状排列,倒卵形、倒披针形、匙形至近提琴形,长6~33.5 cm,宽3~14.3 cm,顶端圆形至钝,基部盾状耳形、浅心形、近截平或楔形,边缘具不规则的圆钝状锯齿,上面初时被蛛丝状毛,下面密被灰白色或淡褐色毡毛,侧脉每边11~18条;叶柄长1~9 cm,上面具浅槽,被毡毛。聚伞花序有时伞状,腋生,1~2次分枝,每花序有花2~15朵;花序梗长4~6 cm,被毡毛。苞片对生,披针状三角状,长2~3 (~4)

* Guangxi Museum of Natural History

mm,被毡毛。
中裂,裂片长
mm;上唇长
淡紫色,顶端
形,长约3
约5 mm,本
纵裂成4
本种

其他种

4. 三苞

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花冠紫蓝色, 长 10~11 mm, 下唇长 4 mm, 3 裂, 裂片宽 1 被腺状短柔毛。花药肾形, m。雌蕊无毛, 子房长约 5 1 常密集的果实。蒴果长 10 狭卵形, 长 3 mm; 果序常

mm, 被毡毛。花萼长约 3.5 mm, 外被毡毛, 二唇形, 上唇 2 齿裂, 齿长约 0.7 mm, 下唇 3 中裂, 裂片长约 2 mm。花冠白色, 长 14 mm, 直径 15 mm, 外面无毛; 筒长 7 mm, 直径 7 mm; 上唇长 5 mm, 2 全裂, 裂片宽 5 mm, 下唇长 7 mm, 3 深裂, 裂片宽 7 mm, 两侧的外面淡紫色, 顶端圆形, 中间的微凹。雄蕊的花丝黄色, 长 3 mm, 弯曲, 上部稍粗, 无毛, 花药肾形, 长约 3 mm; 退化雄蕊 2, 无毛, 长 2 mm。雌蕊下部密被、上部疏被淡紫色毡毛, 子房长约 5 mm, 花柱长 7 mm, 柱头小, 头状。蒴果长 10~36 mm, 粗 2~3 mm, 幼时被毡毛, 成熟纵裂成 4 瓣, 不旋扭。

本种以叶片通常倒卵形, 基部盾状耳形, 侧脉每边 11~18 条, 花萼二唇形, 而与同属其他种相区别。

4 三苞蛛毛苣苔 地枇杷(贵州荔波) 新种 图 1:5~9

Paraboea tribracteata D. Fang et W. Y. Rao, sp. nov.

Species *P. dictyoneurae* (Hance) Burtt proxima, sed bracteis 3, verticillatis, cum calycibus pedunculisque omnino glabris; floribus rubris differt.

Herba perennis. Folia basalia, sessilia anguste oblanceolata, 9~13.5 cm longa, 1.7~2.4 cm lata, apice acuta, basi attenuata, margine serrulata, supra initio arachnoidea subtus densissime cineraceo-raro fumigato-lanata, nervis lateralibus utrinsecus 3~4. Cymae axillares, 1~2-ramosae, c. 21~26-florae; pedunculi 12~14 cm longi, glabri raro tantum basi tomentosi; bractee 3, verticillatae, ovatae, 6~7 mm longae, 2~4 mm latae, glabrae. Calyx ad basin 5-sectus, segmentis lanceolatis vel oblongis 3~4 mm longis trinerviis glabris. Corolla rubra, 9 mm longa, 8 mm in diam., extus glabra, intus glanduloso-puberula; tubo 5 mm longo; labio postico c. 3.5 mm longo 2-lobato, eo antico c. 4 mm longo 3-lobato, lobis 4 mm latis apice rotundatis. Stamina 2, glabra, filamentis 5~6 mm longis curvis superne turgidis, antheris subellipsoideis 4mm longis; staminodia 2, sparse glanduloso-puberula, 3 mm longa. Pistillum glabrum, ovario conico 5 mm longo, stylo 3 mm longo, stigmate parvo indiviso.

Guizhou(贵州): Libo(荔波), on limestone, flower red, 1992-07-27, W. Y. Rao (饶伟源) 79047 (holotype, GXMI).

叶基生, 无柄, 狭倒披针形, 长 9~13.5 cm, 宽 1.7~2.4 cm, 顶端急尖, 基部渐狭, 边缘有细锯齿, 上面初时被蛛丝状毛, 下面密被灰白色稀淡褐色毡毛, 侧脉每边 3~4 条。聚伞花序腋生, 1~2 次分枝, 每花序有花约 21~26 朵; 花序梗长 12~14 cm, 无毛稀仅基部被绒毛; 苞片 3, 轮生, 卵形, 长 6~7 mm, 宽 2~4 mm, 无毛; 花萼 5 裂达基部, 裂片披针形至长圆形, 长 3~4 mm, 具 3 脉, 无毛。花冠红色, 长 9 mm, 直径 8 mm, 外面无毛, 内面被腺状短柔毛; 筒长 5 mm; 上唇长约 3.5 mm, 2 裂, 下唇长约 4 mm, 3 裂, 裂片宽 4 mm, 顶端圆形。雄蕊 2, 无毛, 花丝长 5~6 mm, 弯曲, 上部稍粗, 花药近椭圆形, 长 4 mm, 退化雄蕊 2, 疏被腺状短柔毛, 长 3 mm。雌蕊无毛, 子房圆锥形, 长 5 mm, 花柱长 3 mm, 柱头小, 近头状。

本种极近网脉蛛毛苣苔 *P. dictyoneura* (Hance) Burtt, 但苞片 3 枚轮生, 连同花萼和花序梗均无毛, 花红色。

ralibus utrinsecus 11~

olia spiralia, obovata, 3 cm lata, apice rotun-

d cuneata, margine ir-

cineraceo-vel fumiga-

supra canaliculati; la-

orae; pedunculi 4~6

(~4) mm longae, den-

ico 2-dentato, den-

orolla alba, 14 mm

n.; labio postico 5

s 7 mm latis later-

filamentis luteis 3

is; staminodia 2,

o, ovario c. 5 mm

ngae, 2~3 mm

rtae.

Mashan 2-435;

379 (holotypo,

丘提琴形, 长 6

楔形, 边缘具

侧脉每边 11

2 次分枝, 每

: 2~3(~4)