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广西爵床科植物新资料

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A 摘 要 本文报道广西爵床科 33 个新分类群, 4 个新组合, 8 个中国新记录, 13 个广西新记录, 1 种花的补充描述和 1 种花萼描述的修订。

关键词 爵床科; 新分类群; 新组合; 新记录

广西

NEW MATERIALS FOR ACANTHACEAE FROM GUANGXI

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Abstract Based on the investigation and study of herbarium material of *Acanthaceae* from Guangxi, thirty-three new taxa were described; four new combinations were made; eight new records to China and thirteen new records to Guangxi were reported. The flower description of *Echinacanthus longzhouensis* Lo was given and the calyx description of *Strobilanthes guangxiensis* S. Z. Huang was revised.

Key words Acanthaceae; new taxa; new combinations; new records

我们为编《广西植物志》, 近年研究了广西爵床科植物标本, 对马蓝属 *Strobilanthes* 和爵床属 *Justicia* 采用广义概念, 现知连引入的 (1 属 7 种 1 变种) 有 34 属 117 种 1 亚种 3 变种和 1 变型。《广西植物志》第三卷近期难于出版, 现将分属检索表、马蓝属、孩儿草属和爵床属 3 个属的分种检索表, 连同新资料一

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并予以报道。

一、分属检索表

1. 花冠裂片旋转状排列。
 2. 发育雄蕊4枚。
 3. 尊环状，顶端截平或有12~16齿；蒴果具剑状长喙；种子无珠柄钩承托（6种）* **老鸦嘴属 Thunbergia Retz.**
 3. 尊5裂；蒴果无喙；种子有珠柄钩承托。
 4. 冠管近等大的5裂，整齐或微带二唇形。
 5. 胚珠或种子每室3至多颗。
 6. 花组成穗状花序。
 7. 花冠管部比喉部短。
 8. 花药基部有芒状距（3种） **恋岩花属 Echinacanthus Nees**
 8. 花药基部无芒状距。
 9. 茎缩短；叶密挤成莲座状；花药蝴蝶形，具阔大的药隔（1种） **莲楠草属 Pararuellia Brem. et Nannenga-Brem.**
 9. 茎延长；叶疏生；花药和药隔与上述不同。
 10. 花黄色；苞片大，卵形或椭圆形，顶端具尾状尖头（1种） **黄球花属 Sericocalyx Brem.**
 10. 花白色或淡紫色；苞片小，线形，无尾状尖头（1种） **尖药花属 Aechmanthera Nees**
 7. 花冠管细长，比喉部长很多（1种） **飞来蓝属 Leptosiphonium F. Muell.**
 6. 花单生或簇生于叶腋，从不组成花序（1种） **楠草属 Dipteracanthus Nees**
 5. 胚珠或种子每室2颗（30种） **马蓝属 Strobilanthes Bl.**
 4. 冠管极不等大的5裂，显然二唇形；胚珠或种子每室3至多颗；花多朵簇生于叶腋（2种2变种）
 **水蓑衣属 Hygrophila R. Br.**
 2. 发育雄蕊2枚。
 11. 冠管近等大的5裂；冠管细长；胚珠或种子每室2颗。
 12. 花序穗状；花冠高脚碟状，有细长的管；苞片大，长1~2.5 cm，干时绿色（2种） **可爱花属 Eranthemum Liun.**
 12. 花序头状；花冠近钟形，下部有短管；苞片较小，披针形，长1.3~1.5 cm，干时苍白（1种） **野古蓝属 Gutzlaffia Hance**
 11. 冠管极不等大的5裂，显然二唇形；冠管稍阔而短；胚珠或种子每室20~30颗（1种） **小狮子草属 Hemidelphis Nees**
 1. 花冠裂片覆瓦状排列。
 13. 发育雄蕊4枚。
 14. 尊5裂或其中2前裂片中部以下合生。

* 括号内数字为广西现知的种及种下分类群数目。

15. 种子每室多數, 通常10颗以上, 无珠柄钩承托 (4种) 叉柱花属 *Staurogyne* Wall.
15. 种子每室4颗, 有珠柄钩承托.
16. 花萼有色泽, 花瓣状; 药室常一室高另一室稍低, 基部均有白色的距 (1种) 色萼花属 *Chroestes* R. Br.
16. 花萼与上述不同.
17. 冠管裂片稍不等大的5裂, 但决非明显二唇形.
18. 花冠筒状钟形, 具较短的冠管; 药室基部有白色小尖头 (1种) 十万错属 *Asystasia* Bl.
18. 花冠漏斗状, 有细长的冠管; 药室基部钝 (1种) 白接骨属 *Asystasiella* Lindau
17. 冠管裂片极不等大的5裂, 明显二唇形; 药室基部钝 (2种1变种) 鳞花草属 *Lepidagathis* Willd.
14. 尊4裂.
19. 冠管稍不等大的5裂、整齐或稍呈二唇形; 花药2室 (1种) 假杜鹃属 *Barleria* Linn.
19. 冠管呈单唇形, 上唇极退化; 花药1室 (2种) 老鼠簕属 *Acanthus* Linn.
13. 发育雄蕊2枚.
20. 尊5裂.
21. 冠管稍不等大的5裂; 整齐或稍呈二唇形; 胚珠或种子每室2颗.
22. 冠管阔而短, 钟形 (1种) 钟花草属 *Codonacanthus* Nees
22. 冠管细而长, 圆筒状 (2种) 钟粉草属 *Psenderanthemum* Radlk.
21. 冠管极不等大的5裂 (有时上唇或下唇全缘), 显然二唇形.
23. 胚珠或种子每室3至多颗.
24. 不育雄蕊2枚 (3种) 火焰花属 *Phlogacanthus* Nees
24. 无不育雄蕊.
25. 花药被须毛; 蒴果压扁 (2种). 穿心莲属 *Andrographis* Nees
25. 花药无须毛; 蒴果圆筒状, 不压扁 (3种) 裸柱草属 *Gymnostachyum* Nees
23. 胚珠或种子每室2颗.
26. 花药2室.
27. 药室基部无附属物.
28. 不育雄蕊2枚 (2种) 秋英爵床属 *Cosmianthemum* Brem.
28. 无不育雄蕊.
29. 花冠管细长, 圆筒状, 喉部不明显或稍扩大.
30. 花序聚伞状或伞房状, 由2~5个或更多个小头状花序组成; 花下有2枚叶状总苞片.
31. 药室线形; 蒴果开裂时胎座不弹起 (3种) 山蓝属 *Peristrophe* Nees
31. 药室卵形; 蒴果开裂时胎座连同珠柄钩自果瓣基部弹起 (1种) 狗肝菜属 *Dicliptera* Juss.
30. 花序穗状或圆锥状; 花下无叶状总苞片 (1种) 白鹤灵芝属 *Rhinacanthus* Nees
29. 花冠管短, 喉部明显扩大.
32. 药室等高或近等高 (2种) 纤穗爵床属 *Leptostachya* Nees
32. 药室明显一上一下 (2种) 叉序草属 *Isoglossa* Oerst.

27. 药室基部有附属物。
33. 苞片4列，仅2列有花，故花序偏向一边；苞片常有干膜质的边檐；蒴果开裂时胎座连同珠柄钩自果瓣基部弹起（8种） 孩儿草属 *Rungia* Nees
33. 苞片2或4列、全部有花，无干膜质边檐；蒴果开裂时胎座不弹起（23种1亚种1变型） 鸳床属 *Justicia* Linn.
26. 花药1室。
34. 萼藏于管状总苞内；花序腋生，直立（1种） 枪刀药属 *Hypoestes* Soland. ex R. Br.
34. 萼下无管状总苞；花序顶生，俯垂（1种） 鳄嘴花属 *Clinacanthus* Nees
20. 萼4裂；药室一高一低，较低一室有距 鸳床属 *Justicia* Linn.

二、新资料

1 叉柱花属 *Staurogyne* Wall.

1.1 短穗叉柱花(植物研究)

Staurogyne brachystachya R. Ben. in Bull. Mus. Hist. Nat. Paris II, 5: 174. 1933 et in Lecomte, Fl. Gén. Indo-Chine 4: 629. 1935; 罗献瑞于植物研究 8(1): 3. 1988.

广西：那坡，百合，石山林中，1977. 04. 18，王振刚等 3-5195 (GXMI).

分布：云南东南部；越南北部也有。广西新记录。

2 老鸦嘴属 *Thunbergia* Retz.

2.1 二色老鸦嘴(海南植物志)

Thunbergia eberhardtii R. Ben. in Bull. Mus. Hist. Nat. Paris 27: 543. 1921 et in Lecomte, Fl. Gén. Indo-Chine 4: 619. 1935; 海南植物志 3: 543. 1974.

广西：宜山，德胜，石山，1977. 09. 28，新惠组 4-2-254 (GXMI).

分布：海南南部和东部；越南北部也有。广西新记录。

3 恋岩花属 *Echinacanthus* Nees

3.1 龙州恋岩花(云南植物研究)

Echinacanthus longzhouensis Lo in Acta Bot. Yunnan. 7(2): 140. 1985; J. R. I. Wood in Edinb. J. Bot. 51 (2): 186. 1994.

Descr. fl. add.: Calycis segmenta 11~14 mm sub fructu usque ad 20 mm longa; corolla c. 35 mm longa, tubo cylindrico c. 15 mm. longo, fauce campanulata, lobis 5 c. 4.5 mm longis apice retusis vel subtruncatis; antherae angusto-ovatae, thecis parallelis c. 3 mm longis, basi bi-aristato-calcaratis, connectivis apice ultra thecas c. 0.5 mm longas productae; ovarium dense ferrugineo-pubescent, stigmate glabro 2-partito, segmentis anticis 1.5 mm longis posticis brevissimis.

Guangxi (广西): Longzhou (龙州), alt. 530 m, Chun, S. H. (陈少卿) 13793 (isotype, IBK); ibid., 1979. 07. 14, Longzhou Inst. Medic. Exped. (龙州医药研究所调查队) 622 (GXMI).

花的补充描述：萼裂片长 11~14 mm，果时达 20 mm；花冠长约 35 mm，裂片 5，长约 4.5 mm，先端微凹或近截平；花药狭卵形，药室平行，长约 3 mm，基部有 2 枚芒刺状距，药隔先端突出约 0.5 mm。

4 莲楠草属 *Pararuellia* Brem. et Nannenga—Brem.**4.1 海南莲楠草 (海南植物志)**

Pararuellia hainanensis C. Y. Wu et Lo in Fl. Hainan. 3: 550, 593, fig. 928. 1974.

广西: 百色, 百色队 01876 (IBSC); 南丹, 黄志 41288 (IBSC); 天峨, 贵州队 96 (IBSC); 隆林, 李荫昆 00480 (IBSC).

分布: 海南。广西新记录。

5 马蓝属 *Strobilanthes* Bl. s. l.**分 种 检 索 表**

1. 小枝有翅 *翅枝马蓝* *S. alatiramosa* Lo et D. Fang
1. 小枝无翅.
 2. 叶无柄, 基部耳形, 略抱茎 *耳叶马蓝* *S. auriculata* (Wall.) Nees
 2. 叶有柄, 基部不为耳形, 也不抱茎.
 3. 叶干后背面多少呈锈色 *锈背马蓝* *S. ferruginea* D. Fang et Lo
 3. 叶干后背面不呈锈色.
 4. 苞片基部下延至花序分枝上成翅 *延苞马蓝* *S. pteroclada* R. Ben.
 4. 苞片基部不下延.
 5. 花序穗状.
 6. 花序为延长的穗状.
 7. 花序一侧向 *翅柄马蓝* *S. wallichii* Nees
 7. 花序不为一侧向.
 8. 苞片早落.
 9. 叶纸质而柔软, 干时黑色, 针晶体在背面不沿脉分布; 苞片倒卵形 *马蓝* *S. cusia* (Nees) O. Ktze.
 9. 叶厚纸质, 干时非黑色, 针晶体在背面常沿脉分布; 苞片椭圆形 *截头马蓝* *S. truncata* D. Fang et Lo
 8. 苞片宿存.
 10. 花对生 (花在花序轴的节上对生).
 11. 苞片彼此紧密叠生呈覆瓦状.
 12. 花序通常圆柱状; 苞片有分节长毛 *顶头马蓝* *S. affinis* (Griff.) Y. C. Tang
 12. 花序通常椭圆状; 苞片近无毛 *密苞马蓝* *S. compacta* D. Fang et Lo
 11. 苞片彼此疏离, 不叠生呈覆瓦状.
 13. 叶缘全缘或稍波状; 尊明显二唇形 *广西马蓝* *S. guangxiensis* S. Z. Huang
 13. 叶缘有锯齿; 尊5裂几达基部, 裂片等大或稍不等大.
 14. 苞片长17~25 mm; 小苞片长18~20 mm *尾苞马蓝* *S. mucronato-producta* Lundau
 14. 苞片长11~12 mm; 小苞片长8~9 mm *异序马蓝* *S. heteroclita* D. Fang et Lo
 10. 花常互生 (花在花序轴的节上单生).
 15. 苞片狭三角形或多少披针形, 顶端尖.
 16. 苞片狭三角形 *莽岗马蓝* *S. longgangensis* D. Fang et Lo

16. 苞片多少披针形。
17. 苞片无毛；花冠外面有反曲的毛；叶纸质或近膜质，上部叶基部常稍心形而近无柄 曲枝假蓝 *S. dalzielii* (W. W. Smith) R. Ben.
17. 苞片有毛；花冠外面无毛；叶革质，基部楔形，有柄
..... 龙州马蓝 *S. longzhouensis* Lo et D. Fang
15. 苞片椭圆形，顶端钝圆。
18. 灌木；叶狭卵形；花序生于分枝的每个叶腋，长约达12 cm；花冠长约3 cm
..... 多穗马蓝 *S. myriostachya* D. Fang et Lo
18. 亚灌木；叶狭椭圆形至披针形；花序生于分枝的部分叶腋，长约达3.5~7 cm；花冠长约4~5 cm. 串花马蓝 *S. botryantha* D. Fang et Lo
6. 花序为紧缩的短穗状，花后稍伸长。
19. 叶两面多少有糙伏毛；苞片有分节腺质缘毛 槌毛马蓝 *S. strigosa* D. Fang et Lo
19. 叶无糙伏毛；苞片无分节腺质缘毛。
20. 苞片有不明显的微绒毛至近无毛 异序马蓝 *S. heteroclita* D. Fang et Lo
20. 苞片有明显的柔毛或糙硬毛。
21. 苞片有分节锈色长糙硬毛；花冠长约15 mm，外有反曲的毛
..... 锈毛马蓝 *S. fulvihispida* D. Fang et Lo
21. 苞片有分节柔毛；花冠长20 mm或过之，外面的毛不反曲。
22. 苞片大，长约2~4 cm，边缘有锯齿 长苞马蓝 *S. jugorum* R. Ben.
22. 苞片较小，长通常不超过2 cm，边缘无锯齿。
23. 植株有白色长毛；叶干后近膜质 薄叶马蓝 *S. labordei* Lévl.
23. 植株多少有白色短毛；叶干后纸质。
24. 苞片倒卵形至匙形，长约15 mm；茎常匍匐或外倾
..... 四子马蓝 *S. tetrasperma* (Champ. ex Benth.) Drue
24. 苞片椭圆形至宽卵形，长约9~12 mm；茎常直立
..... 环状马蓝 *S. cyclo* Clarke ex W. W. Smith
5. 花序头状或近头状。
25. 苞片宿存；花序梗短，顶端不增粗；后对花丝直立；花药伸长。
26. 叶和苞片有分节长柔毛 长苞马蓝 *S. jugorum* R. Ben.
26. 叶和苞片常无毛。
27. 叶基部明显下延；苞片非覆瓦状重叠；花冠长2.5~3 cm ... 三花马蓝 *S. triflora* Y. C. Tang
27. 叶基部不下延；苞片覆瓦状重叠；花冠长6~6.5 (~7) cm
..... 大苞马蓝 *S. gigantodes* Lindau
25. 苞片早落；花序梗长，顶端增粗；后对花丝下弯；花药近球形。
28. 萼裂片有分节腺质柔毛。
29. 叶上面常散生多细胞毛；苞片外面无毛 两广马蓝 *S. dimorphotricha* Hance
29. 叶上面无散生的多细胞毛；苞片外面有腺质柔毛
..... 腺苞马蓝 *S. glandibracteata* D. Fang et Lo
28. 萼裂片多少有短硬毛或无毛。

30. 萼裂片几乎无毛或无毛; 针晶体在叶背只沿脉分布
..... 宁明马蓝 *S. ningmingensis* D. Fang et Lo
30. 萼裂片有短硬毛。

31. 叶顶端尾状渐尖; 花冠外面无毛 细穗马蓝 *S. psilostachys* Clarke ex W. W. Smith
31. 叶顶端急尖至渐尖, 花冠外面有毛 卵苞马蓝 *S. ovatibracteata* Lo et D. Fang

据《中国高等植物图鉴》4: 161—162. 1975 记载, 疏花马蓝 *S. divaricata* (Nees) T. Anders. 和球花马蓝 *S. pentstemonoides* (Nees) T. Anders. 广西亦产, 因未见到可靠标本, 暂未收录。

5.1 翅枝马蓝 新种

Strobilanthes alatiramosa Lo et D. Fang, sp. nov.

A *S. guangxiensis* S. Z. Huang ramulis tenuiter alatis, foliorum laminis oblongo-ovatis vel lanceolatis margine denticulatis vel serratis, bracteis bracteolatis brevioribus recedit.

Herba erecta circ. 0.5 m alta; ramuli graciles, flexuosi, subglabri vel glabri, internodiis superis tenuiter alatis, alis 1.5—4 mm latis. Folia in paribus inaequimagna; lamina tenuiter papyracea, oblongo-ovata vel lanceolata raro ovata, major 6—13 cm interdum usque ad 17 cm longa, minor 2—6 cm interdum usque ad 8 cm longa, apice acuminata interdum obtusa, basi saepe cuneata decurrentis in petiolum alatum, margine denticulata vel serrata, utrinque glabra, nervis lateralibus utrinsecus 4—6 subtus prominulis. Spica axillaris et terminalis, 3—10 cm longa, interrupta; bractea ovata vel lanceolata, 2.5—3 mm longa, obtusa, glabra, 1-flora, persistens; bracteola spatulato-linearis vel linearis, 4—5 mm longa; calyx glaber, circ. 8 mm longus, bilabiatus, labio antico ad basin 2-partito, labio postico 3-partito inferne connato, lobulis lateralibus circ. 5 mm longis medio circ. 5.5 mm longo, cum lobis anticis omnino spatulato-linearibus vel linearibus; corolla pallide purpurea, 3—4 cm longa, extus glabra, tubo circ. 5 mm longo, fauce campanulata 2.5—2.6 cm longa, lobis 5 subaequalibus 3—4 mm longis apice bilobulatis; stamina didynama, inclusa, filamentis anticis 5 mm longis hirtellis posticis 2 mm longis glabris, antheris 3—4 mm longis; stylus circ. 2.5 cm longus, sparsim glanduloso-puberulus. Capsula subfusiformis, circ. 14 mm longa, superne sparsim glanduloso-puberula; semina 4, pilis adpressis.

Guangxi (广西): Debao (德保), Huanglianshan (黄连山), in dense forest, common, 1958. 11. 29. C. C. Chang (张肇春) 13600 (type, IBSC); Napo (那坡), 1290 m alt., Qin Dehai and Rao Weiyuan (覃德海和饶伟源) 79931 (GXMI), D. Fang et al. (方鼎等) 3—1370 (GXMI), 3—1595 (fr., GXMI), D. Fang and Liu Dayu (方鼎和刘达雨) 22233 (fr., GXMI).

Yunnan (云南): Malipo (麻栗坡), C. W. Wang (王启元) 83197 (IBSC), 86359 (IBSC).

草本, 高约 0.5 m; 小枝上部节间有薄翅, 翅宽 1.5~4 mm。叶长圆状卵形或披针形, 稀卵形, 大的长 6~13 (~17) cm, 小的长 2~6 (~8) cm, 边缘有浅牙齿或锯齿, 无毛, 侧脉每边 4~6 条。穗状花序腋生和顶生, 间断; 苞片长 2.5~3 mm, 宿存; 小苞片长 4~5 mm; 萼长约 8 mm, 二唇形, 下唇 2 裂达基部, 上唇 3 深裂, 侧裂片长约 5 mm, 中裂片长约 5.5 mm; 花冠淡紫色, 长 3~4 cm, 外面无毛; 雄蕊二强, 前对花丝被小硬毛, 后对花丝无毛; 花柱疏被腺质微毛。

新种花对生, 萼二唇形, 而与广西马蓝 *S. guangxiensis* S. Z. Huang 接近, 但小枝有薄翅, 叶边缘有齿, 极易区别。

5.2 锈背马蓝 新种

Strobilanthes ferruginea D. Fang et Lo, sp. nov.

Affinis *S. griffithiana* (Nees) T. Anders., quae foliis late lanceolatis subtus in sicco non ferruginescentibus, spicis usque ad 20 cm longis ramiferis viscoso-pubescentibus, bracteis anguste triangularibus c. 25 mm longis, corolla lutea differt.

Frutex c. 2 m altus; rami flexuosi, bisulcati, fere glabri. Folia opposita, inaequalia; lamina chartacea, fato-elliptica vel elliptica raro ovato-elliptica, major 13~18 cm longa, 6~9 cm lata, minor 4~7.5 cm longa, 1.6~3.3 cm lata, apice acuminata vel caudata, basi lato-cuneata raro obtusa, margine in dimidio supero sparsim crenulata, supra atrovirens, subtus in sicco plus minusve ferruginescens, utrinque cystolithis densis lineolatis, costa fere glabra, nervis lateralibus utrinsecus 9~12 (major) vel 6~7 (~10) (minor) utrinque prominulis, venuis transversalibus; petiolus 0.5~3 cm longus, canaliculatus, fere glaber. Inflorescentia axillaris, 1~2.5 cm longa, spicata, interrupta, 3~5-flora; pedunculus 2~4 mm longus; bracteae oppositae, ellipticae vel oblongae, c. 3.5~4 mm longae, 2 mm latae, alterae 1-florae, alterae eflorae, persistentes, cum bracteolis segmentisque calycis coriaceae ciliolatae apice obtusae utrinque cystolithis; bracteolae oblongae vel ellipticae c. 7 mm longae, 2.5 mm latae; calyx 9 mm longus, bilabiatus, labio antico fere ad basin 2-partito, labio postico 3-fido, lobulis c. 4 mm longis, omnibus oblongis; corolla 3~3.5 cm longa, paulo curvata, extus glabra, tubo 6 mm longo cylindrico, fauce purpurea campanulata c. 1.9 cm longa, limbo albenti 5-lobato, lobis c. 5 mm longis apice 2-lobulatis; stamina 4, didynama, inclusa, filamentis anticis 8 mm longis posticis 2 mm longis omnino sparsim hirsutis, thecis 3~4.5 mm longis; ovarium glabrum, utroque loculo ovoides duobus continens, stylus c. 1.8 cm longus, dense hirsutus. Capsula non visa.

Guangxi (广西): Longzhou (龙州), Longgang (弄岗), on limestone hill, in dense forest, herb 1 m. high, 1979. 11. 10, Longgang Compl. Exped. (弄岗综合考队) 1723 (holotype, IBK); ibid., Longgang Compl. Exped. 10433 (IBK).

灌木，高约2m。叶椭圆形至卵状椭圆形，稀卵状椭圆形，大的长13~18cm，小的长4~7.5cm，上半部有疏浅钝齿，干时下面多少呈锈色。穗状花序腋生，长1~2.5cm，间断，每个花序着花3~5朵；苞片椭圆形至长圆形，长约3.5~4mm，宿存；花互生；萼长9mm，二唇形，下唇2裂几达基部，上唇3裂片长约4mm，所有裂片均为长圆形；花冠长3~3.5cm，外面无毛，喉部紫色，管部白色，裂片5，长约5mm，凹缺；雄蕊4，花丝均疏被硬毛。

这个种与 *S. griffithiana* (Nees) T. Anders. 近缘，但那种叶宽披针形，干时下面不为锈色；穗状花序长达20cm，分枝，被粘质短柔毛；苞片狭三角形，长约25mm；花冠黄色。

5.3 延苞马蓝

Strobilanthes pteroclada R. Ben. in Bull. Mus. Hist. Nat. Paris 28: 187. 1922.

广西: 田林，张肇骞 10937 (IBSC)，南植地 5133 (IBSC)；天峨，天峨队 4-6-0276 (GXMI)；百色，石山林中，海拔820m，方鼎 36897 (GXMI)。

分布：贵州南部；越南也有。广西新记录。

据 R. Ben. 原记载，萼片等大 (Cavaleri 3118, 采于贵州罗甸)，上引标本近模式产地，花萼长约9mm，二唇形，下唇2裂片长约7mm，上唇3裂片长约6mm，果时均稍伸长，因未看到模式和贵州南部地区标本，姑存疑。

广西标本与产于印度的 *Strobilanthes decurrens* Nees (*Goldfussia decurrens* Wight)也颇相似，但从地理分布来看，订作本种似较合理。

5.4 截头马蓝 新种

Strobilanthes truncata D. Fang et Lo, sp. nov.

Habitus *S. albo-viridi* Imlay affinis, quae ramis, costis subtus petiolisque puberulis, pedunculis glanduloso-pubescentibus, bracteis linearis-oblongis dense glanduloso-ciliatis, calycis basi albis apice viridis segmentis anticis 6 mm longis differt.

Herba erecta 1~3 m alta, praeter inflorescentias floresque glabra; rami subteretes, plus minusve flexuosi; ramuli sulcati. Folia opposita, inaequalissima, petiolis 0.7~6 cm longis; lamina crasse chartacea, late ovata raro elliptica, ovata vel ovato-elliptica, major 10~19 cm longa, 4.5~11.5 cm lata, minor 3.5~7 cm longa, 2~4 cm lata, apice subito et breviter acuminata raro acuta, basi rotunda vel late cuneata, callosa-denticulata raro callosa-serrulata, utrinque cystolithis lineolatis subtus saepe secus costam, nervos venulasque dispositis, et nervis lateralibus utrinsecus (4~) 5~7 cum costa prominulis, venulis reticulatis conspicuis. Inflorescentia terminalis et axillaris, 3~26 cm longa, spicata, interrupta, simplex vel ramosa, rhachidi leviter sulcata in sulcis saepe pubescenti; pedunculus 0.5~5.5 cm longus, glabrus; bracteae oppositae, ellipticae c. 3~5 mm longae, 2 mm latae, apice rotundae, ciliolatae, 1-florae, caducae; bracteolae sublineares 8 mm longae, 1~1.5 mm latae, extus fere glabrae cystolithisque sparsis, ciliolatae, apice truncatae interdum rotundae et glanduloso-puberulae, persistentes; calyx 8~10 mm longus, utrinque cystolithis sparsis, bilabiatus, labio antico ad basin 2-partito, postico 3-fido, lobulis 5~6 mm longis omnibus sublinearibus sparsim ciliolatis obtusis juxta apicem tantum parce puberulis et glandulosis; corolla extus alba glabra, intus purpurascens, 3.5~5 cm longa, paulo curvata, tubo 1~1.5 cm longo cylindrico, in fauce plus minusve ventricosa 2.5~3 cm longa, lobis 5 c. 5~7 mm longis apice retusis; stamina 4, didynama, inclusa, filamentis anticis 7 mm longis parce hirtellis posticis 3 mm longis glabris basi 2 juncto-membraniferis, thecis 3~4 mm longis; stylus c. 2.7 cm longus, parce hirtellus. Capsula fusiformis, c. 17 mm longa, glabra, 4-seminifera; semina pilis densis appressis.

Guangxi (广西): Napo (那坡), Nunghua (弄化), limestone hill, valley, in forest, alt. 900~1300 m, 1986. 11. 09, Qin Dehai and Rao Weiyuan (覃德海、饶伟源) 79901 (holotype, GXMI), 79949 (fr., GXMI); Pingxiang (凭祥), alt. about 350 m, Lu Xiaohong (陆小鸿) 0800 (in Herbarium, Guangxi Company of Chinese Medicinal Materials).

草本，高达3 m，除花序和花外无毛。叶厚纸质，阔卵形，稀椭圆形，卵形至卵状椭圆形，大的长10~19 cm，小的长3.5~7 cm，边有齿，针晶体在背面常沿脉分布。穗状花序腋生和顶生，长3~26 cm，间断；苞片椭圆形，早落；小苞片近线形，长8 mm，先端截平，有时近圆形，宿存；萼长8~10 mm，二唇形，下唇2裂达基部，上唇3半裂，裂片长5~6 mm；花冠外面白色而无毛，长3.5~5 cm，裂片5，长5~7 mm，微凹；雄蕊4，前对花丝和花柱疏被短硬毛。

这个种与产于泰国的 *S. albo-viridis* Imlay 接近，但后者枝、中脉下面和叶柄有微毛；花序梗有腺毛；苞片线状长圆形，密被腺质缘毛；花萼基部白色，先端绿色，下唇2裂片长6 mm。

5.5 密苞马蓝 新种

Strobilanthes compacta D. Fang et Lo, sp. nov.

Affinis *S. brunnescenti* R. Ben., quae caulis tetragonis initio pubescentibus, bracteis apice recurvis 16 mm longis 11 mm latis, bracteolis oblongis, calycis segmentis linearis-oblongis 14 mm longis differt.

Suffrutex c. 1 m altus, praeter bracteas floresque glaber; caules teretes; rami leviter flexuosi; ramuli

subteretes. Folia in eodem pari paulo inaequalia, petiolata; lamina papyracea, elliptica vel ovato-elliptica, 8.5~15 cm longa, 3.5~7 cm lata, apice acuminata, basi cuneata vel attenuata, serrulata, in sicco supra nigella, utrinque cystolithis densis lineolatis, nervis lateralibus utrinsecus 8~9 cum costa prominulis, venulis transversalibus, petiolo 1~3 cm longo canaliculato. Spica axillaris 1.5~4 cm longa, vulgo ellipsoidea; pedunculus obscurus; bracteae compactae, imbricatae, ovatae raro late obovatae, 5~7 (~12) mm longae, c. 8 mm latae, extus subglabrae, apice acuminatae raro cuspidatae, acutae vel retusae, persistentes, cum bracteolis coriaceae ciliolatae utrinque cystolithis; bracteolae ovatae, 10 mm longae, 5 mm latae; calyx usque ad basin 5-partitus, segmentis sublanceolatis 11 vel 12 mm longis 2 mm latis aequalibus 1-nervis extus appresso-ferruginoso-tomentulosus; corolla purpurea, 3.5~4 cm longa, subrecta, extus glabra, tubo c. 1 cm longo cylindrico, fauce campanulata 2~2.5 cm longa, lobis 5 c. 5 mm longis apice rotundis; stamna 4, didynama, inclusa, filamentis anticus 6 mm longis posticus 2.5 mm longis omnino sparsim pubescentibus basi juncto-membraniferis, thecis c. 3 mm longis; ovarium apicem versus sparsim hirtellum, ovula in quoque loculo 2, stylus c. 2.5 cm longus, hirtellus, apice glaber. Capsula immatura fusiformis, 15 mm longa, apice aliquot hirsuta, 4-seminalis; semina pilis adpressis.

Guangxi (广西): Yongfu (永福), Shoucheng (寿城), on limestone hillslope, in forest, alt. about 230 m, 1974. 09. 13, D. Fang and Gao Chengzhi (高鼎、高成芝) 46672 (holotype, GXMI).

亚灌木，高约1m，除苞片和花外无毛。叶椭圆形至卵状椭圆形，长8.5~15cm，宽3.5~7cm，有浅锯齿，侧脉每边8~9条。穗状花序腋生，长1.5~4cm，通常椭圆状；苞片紧密，覆瓦状排列，卵形稀阔倒卵形，长5~7 (~12) mm，背面近无毛，宿存；小苞片卵形；萼5裂达基部，裂片近披针形，长11或12mm，背面被贴伏的锈色微绒毛；花冠紫色，长3.5~4cm，外面无毛，裂片5，长5mm，先端圆；雄蕊二强，花丝均疏被短柔毛；子房先端和花柱被短硬毛。

与越南北部分布的 *S. brunnescens* R. Ben. 接近，但那种茎四角形，初时被短柔毛；苞片先端外弯，长16mm，宽11mm；小苞片长圆形；萼裂片线状长圆形，长14mm。

5.6 广西马蓝（广西植物）

Strobilanthes guangxiensis S. Z. Huang in Guihaia 6(3): 179, cum ic., excl. fig. 3. 1986.

Descr. emend.: Calyx bilabiatus, labio antico fere ad basin 2-partito, lobulis linearibus margine supra medium ciliatis, labio postico 3-lobulato, lobulis anguste triangulatis ciliatis lateralibus c. 2 mm longis medio c. 3 mm longo.

Guangxi (广西): Liujiang (柳江), J. F. Wel (韦家福) 8668 (holotype, IBK; isotype, GXDC).

修订描述：萼二唇形，下唇2裂几达基部，裂片线形，中部之上有缘毛，上唇3浅裂，裂片狭三角形，有缘毛，侧裂片长约2mm，中裂片长约3mm。

5.7 尾苞马蓝

Strobilanthes mucronato-producta Lindau in Bull. Herb. Boiss. 5: 650. 1897; R. Ben. in Lecomte, Fl. Gén. Indo-Chine 4: 675. 1935.

广西：凭祥，石山，海拔约350m，1985.12.25，陆小鸿、梁凯丽 0799（广西药材公司，GXMI）。

分布：越南北部。我国（广西）新记录。

5.8 异序马蓝 新种

Strobilanthes heteroclita D. Fang et Lo, sp. nov.

Similis *S. mucronato-productae* Lindau, quae nervis lateralibus utrinsecus 5~6, bracteis 17~25 mm

longis, bracteolis 18~20 mm longis, calycis segmentis 15~18 mm longis distincta.

Herba vel suffrutex c. 50 cm altus, praeter bracteas bracteolas flores glaber; caules plus minusve flexuosi; rami teretes; ramuli subquadrangulares, subsulcati. Folia opposita subaequalia raro inaequalia, petiolis 0.5~5 cm longis; lamina chartacea, lato-ovata, elliptica vel lato-elliptica raro obovata, 5.5~19 cm longa, 2.5~10 cm lata, apice brevi-caudata, basi rotunda vel lato-cuneata, serrata, utrinque cystolithis densissimis lineolatis, nervis lateralibus utrinsecus (7~) 9~10 cum costa utrinque prominulis. Inflorescentia 1.5~6 cm longa, spicata, continua, singula vel bina in axillis foliorum superiorum et terminalis vel ad apicem ramosum interdum in paniculam disposita; pedunculus 0~13 cm longus; bracteae oppositae, oblongo-lanceolatae, c. 11~12 mm longae, 3~4 mm latae, coriaceae, acuminatae vel longe acuminatae, 1-florae, persistentes, cum bracteolis segmentisque calycis extus primo adpresso ferrugineo-tomentellae postea subglabrae et utrinque omnino cystolithis; bracteolae bracteis subconformes, c. 8~9 mm longae, coriaceae, calyx 12 mm longus, inaequaliter 5-partitus, segmentis sublinearibus 2 anticus c. 11 mm longis 3 posticus c. 10 mm longis medio lateralibus paulo brevioribus; corolla purpurea vel caesia, 3.5~4 mm longa, suberecta, extus glabra, tubo c. 1 cm longo cylindrico, fauce campanulata 1.9~2.4 cm longa, lobis 5 c. 6 mm longis apice retusis; stamina 4, didyma, inclusa, filamentis anticus 7 mm longis posticus 2 mm longis omnino pilosis, basi juncto-membraniferis, thecis 2~2.5 mm longis; ovarium apicem versus sparsim hirsutum, stylus c. 17 mm longus cum stigmate hirsutus. Capsula fusiformis, 1.5~2 cm longa, praeter apicem glabra, 4-seminalis; semina pilis adpressis.

Guangxi (广西); Long'an (隆安), Longhushan (龙虎山), on limestone hill, in forest, Lu Xiaohong et al. (陆小鸿等) 11201 (GXMI); ibid., D. Fang and X. X. Chen (方鼎、陈秀香) 73267 (GXMI); ibid., alt. about 170 m, 1990. 10. 26. D. Fang and Zeng Ling (方鼎、曾玲) 0812 (GXMI), 0852 (holotype, GXMI; isotype, GXNM).

草本或亚灌木，高约 50 cm。叶阔卵形、椭圆形或阔椭圆形，稀倒卵形，长 5.5~19 cm，宽 2.5~10 cm，边缘有锯齿，侧脉每边 (7~) 9~10 条。穗状花序长 1.5~6 cm，连续，生于上部叶腋和枝梢，枝梢的有时排成圆锥状；苞片长圆状披针形，长约 11~12 mm，宿存；小苞片长约 8~9 mm；萼 5 深裂，裂片近线形，前方 2 枚长约 11 mm，后方 3 枚长约 10 mm，中间一枚稍短；花冠紫色至浅蓝色，长 3.5~4 cm，外面无毛，裂片 5，长 6 mm，微凹；雄蕊二强，花丝均被疏柔毛。

本种与尾苞马蓝 *S. mucronato-producta* Lindau 相似，但后者侧脉每边 5~6 条，苞片长 17~25 mm，小苞片长 18~20 mm，萼裂片长 15~18 mm。

5.9 羌岗马蓝 新种

Strobilanthes longgangensis D. Fang et Lo, sp. nov.

A *S. griffithiana* (Nees) T. Anders. nervis lateralibus utrinsecus 4~6, spicis usque ad 4 cm longis simplicibus glabris, bracteis calycibus paulo brevioribus apice acutis, calycibus 5 mm longis recedit.

Suffrutex ultra 40 cm altus, ramosus, praeter flores glaber; rami graciles, subquadrangulares, sulcati, fere glabri. Folia opposita, inaequalia; lamina papyracea, anguste elliptica raro ovato-elliptica, major 6~11.5 cm longa, 2~3.5 cm lata, minor (1.5~) 3~8.5 cm longa, (0.5~) 1~3 cm lata, apice acuminata, basi cuneata decurrentia, denticulata, utrinque cystolithis densis lineolatis, nervis lateralibus utrinsecus 4~6 cum costa utrinque prominulis, venuis transversalibus; petiolus 2~14 mm longus. Inflorescentia axillaris 2~4 cm longa, spicata, simplex, 5~1-flora; pedunculus usque ad 8 mm longus; bracteae oppositae, in quoque

paribus inter se remotae, anguste triangulares, 2~4 mm longae, apice acutae, utrinque cystolithis, alterae fertiles 1-florae, alterae steriles, persistentes; bracteolae oblongae, 5 mm longae; calyx c. 5 mm longus, bilabiatus, labio antico ad basin 2-partito, eo postico 3-lobulato, lobulis c. 2 mm longis omnino oblongis margine juxta apicem ciliolatis; corolla (alab.) purpurea, ultra 2.5 cm longa, subrecta, extus glabra, tubo c. 5 mm longe cylindrico, fauce campanulata c. 1.6 cm longa, lobis 5 c. 4 mm longis apice 2-lobulatis; stamina 4, didynama, inclusa, filamentis longioribus c. 6 mm longis brevioribus c. 2 mm longis omnino pilosis, loculis c. 2~2.5 mm longis; ovarium glabrum, ovula in quoque loculo 2, stylo c. 12 mm longo hirsuto, stigmate glabro. Capsula non visa.

Guangxi (广西): Longzhou (龙州), Longgang (弄岗), on limestone hillslope, 1979. 11. 10, Longgang Compl. Exped. (弄岗综合考队) 11599 (holotype, IBK).

亚灌木，高逾 40 cm，除花外无毛。叶狭椭圆形，稀卵状椭圆形，大的长 6~11.5 cm，小的长 (1.5~) 3~8.5 cm，基部下延，边有浅齿，侧脉每边 4~6 条。穗状花序腋生，长 2~4 cm，不分枝，着花 5~1 朵；苞片对生，疏离，狭三角形，长 2~4 mm，先端急尖，1 枚不孕，宿存；萼长约 5 mm，二唇形，下唇 2 裂达基部，上唇 3 浅裂，裂片长约 2 mm；花冠（管）紫色，长逾 2.5 cm，外面无毛，裂片 5，长约 4 mm，有凹缺；雄蕊 4，花丝全被疏柔毛；子房无毛，花柱被硬毛。

本种以侧脉每边 4~6 条，穗状花序长达 4 cm，不分枝，无毛，苞片稍短于花萼，先端急尖，萼长约 5 mm 而与 *S. griffithiana* (Nees) T. Anders. 不同。

5.10 龙州马蓝 新种

Strobilanthes longzhouensis Lo et D. Fang, sp. nov.

Species *S. griffithiana* (Nees) T. Anders. similis, quae foliorum laminis late lanceolatis subtus secus nervos puberulis, spicis et calycibus viscoso-pubescentibus, corolla lutea distinguitur.

Frutex 1.5~2 m altus; caulis robustus, purpureo-fuscus, glaber, nodis tumidulus. Folia inaequimagna vel subaequimagna; lamina coriacea, ovata vel lanceolato-ovata, 3~15.5 cm longa et 2.5~6 cm lata, apice breviter acuminata vel acuminata, basi cuneata, margine saepe subinconspicue serrulata vel subundulata, utrinque glabra, nervis lateralibus utrinsecus 5~7 (~9) supra alte prominentibus subtus prominulis; petiolus 5~10 mm longus. Spica axillaris, 1.5~5 cm longa, floribus densis plerumque alternis; bractea circ. 5~6 mm longa, bracteolaque (circ. 7 mm longa) lanceolata, albo-pubescent, persistens; calyx albo-pubescent, circ. 8 mm longus, bilabiatus, labio antico ad basin 2-partito, labio postico 3-partito inferne connato, lobulis circ. 6 mm longis, cum lobis anticis omnino lanceolatis ciliolatis; corolla pallide purpurea, 3~3.5 cm longa, extus glabra, tubo circ. 1 cm longo cylindrico apice curvulo, fauce campanulata circ. 2 cm longa intus albo-villosa, lobis 5 subaequalibus late obovatis circ. 5 mm longis apice bilobulatis; stamina didynama, inclusa, filamentis anticis 7 mm longis villosis posticis 2 mm longis glabris, antheris 2~2.5 mm longis; ovarium glabrum, stylus circ. 2.5 cm longus, supra medium villosus. Capsula fusiformis, 18~20 mm longa; semina 4, pilis adpressis.

Guangxi (广西): Longzhou (龙州), Zhubu (逐卜), on lime hilltop, rare, 1957. 01, P. C. Tam (谭沛祥) 57224 (type, IBSC), Longgang Compl. Exped. (弄岗综合考队) 20593 (GXMI); ibid., Banbi (板闭), P. C. Tam 57282 (IBSC); Daxin (大新), Huang Sezei (黄燮才) 7531 (fr., GXMG).

灌木，高达 2 m；茎紫棕色。叶革质，卵形或披针状卵形，长 3~15.5 cm，宽 2.5~6 cm，基部楔形，边缘常有不明显的小锯齿或浅波状，无毛，侧脉每边 5~7 (~9) 条。穗状花序腋生；花密、常互生；苞片披针形，长约 5~6 mm，被短柔毛，宿存；萼长约 8 mm，二唇形，下唇 2 裂达基部，上唇 3 深裂，裂

片长约 6 mm；花冠淡紫色，长 3~3.5 cm，外面无毛，裂片 5，长约 5 mm，2 裂；雄蕊二强，前对花丝被长柔毛；子房无毛，花柱中部之上被长柔毛。

新种花互生，萼二唇形，而与 *S. griffithiana* (Nees) T. Anders. 近缘，但那种叶阔披针形，下面脉上有微毛；穗状花序和花萼被粘质短柔毛；花冠黄色而不同。

5.11 多穗马蓝 新种

Strobilanthes myriostachya D. Fang et Lo, sp. nov.

Species *S. griffithiana* (Nees) T. Anders. similis, quae foliis late lanceolatis majoribus nervis lateralibus 10-jugis, spicis usque ad 20 cm longis viscoso-pubescentibus, bracteis anguste triangularibus c. 25 mm longis, corolla lutea differt.

Frutex c. 3.5 m altus, ramosus, praeter flores glaber; rami teres, parce lenticellati; ramuli quadrangulares. Folia opposita, saepe inaequalia raro subaequalia; lamina chartacea, anguste ovata raro lanceolata, 2~9 cm longa, 1~2.7 cm lata, apice acuminata, basi subcuneata decurrentis in petiolum brevem, subintegra vel in dimidio supero paulo crenulata, utrinque cystolithis densis albidis lineolatis et nervis lateralibus utrinsecus saepe 5~6 cum costa prominulis, venulis transversalibus. Inflorescentia in quoque axillis foliorum et apicibus ramorum prodiens, 1.5~12 cm longa, spicata, interrupta, simplex vel ramifera; pedunculus 1~10 mm longus; bracteae oppositae, late ellipticae, 4~7 mm longae, apice obtusae vel rotundae, alterae fertiles 1-florae, alterae steriles, persistentes, cum bracteolis segmentisque calycis coriaceae ciliolatae utrinque cystolithis; bracteolae oblongo-ellipticae, 6~7 mm longae, 2~2.5 mm latae; calyx 8 mm longus bilabiatus, labio antico ad basin 2-partito, postico 3-fido, lobulis 4 mm longis omnino oblongis; corolla purpurea, 3 cm longa, paulo curvata, extus glabra, tubo c. 7 mm longo cylindrico, fauce campanulata 2 cm longa, lobis 5 c. 3~4 mm longis apice 2-lobulatis; stamna 4, didynama, inclusa, filamentis anticis 7 mm longis posticis 2 mm longis omnino hirsutis, loculis 3~3.5 mm longis; stylus c. 2 cm longus cum stigmate hirsutus. Capsula fusiformis, 16~18 mm longa, extus glabra, 4-seminalis; semina pilis densis appressis vestita.

Guangxi (广西): Napo (那坡), Nasang (那桑), on limestone hill, in forest, alt. about 1000 m, 1983. 09. 11, D. Fang and Gao Chengzhi (方鼎、高成芝) 25232 (holotype, GXMI).

灌木，高约 3.5 m，多分枝，除花外无毛。叶狭卵形，稀披针形，长 2~9 cm，宽 1~2.7 cm，基部下延成短柄，边近全缘或中部之上稍有浅钝齿，侧脉每边通常 5~6 条。穗状花序生于每个叶腋和枝梢，长 1.5~12 cm，间断，单一或分枝；苞片对生，椭圆形，长 4~7 mm，先端钝圆，1 枚不孕，宿存；萼长 8 mm，二唇形，下唇 2 裂达基部，上唇 3 半裂，裂片长 4 mm；花冠紫色，长 3 cm，外面无毛，裂片 5，长 3~4 mm，有凹缺；雄蕊 4，花丝和花柱均被硬毛。

此种与 *S. griffithiana* (Nees) T. Anders. 近缘，但后者叶阔披针形，较大，侧脉 10 对；穗状花序长达 20 cm，有粘质短柔毛；苞片狭三角形，长约 25 mm；花冠黄色。

5.12 串花马蓝 新种

Strobilanthes botryantha D. Fang et Lo, sp. nov.

Affinis *S. griffithiana* (Nees) T. Anders., quae foliis lato-lanceolatis nervis lateralibus 10-jugis, spicis usque ad 20 cm longis viscoso-pubescentibus, bracteis angusto-triangularibus c. 25 mm longis, corolla lutea differt.

Suffrutex erectus 0.6~1.5 m altus, praeter flores glaber; rami teretes sparsissime lenticellati; ramuli subquadrangulares paulo sulcati. Folia quoque pari saepe subaequalia raro inaequalia; lamina papyracea,

angusto-elliptica, lanceolata raro ovato-elliptica, 4~17 cm longa, 1.5~4.5 cm lata, apice caudato-acuminata vel acuminata, basi cuneata, subintegra vel irregulariter et parce crenulata, utrinque cystolithis lineolatis, costa supra impressa, nervis lateralibus utrinsecus (3~) 5~6 utrinque prominulis, petiolo 0.5~2 cm longo canaliculato. Inflorescentia ex axillis foliorum partialium prodiens, 1.5~3.5 (~7) cm longa, spicata, interrupta, simplex vel ramifera, (7~) 4~1-flora; pedunculus 0.3~1.5 (~3) cm longus; bracteae oppositae, saepe ellipticae, 2.5~6 (~8) mm longae, 3~4 mm latae, apice rotundae raro obtusae, alterae 1-florae, alterae eflorae, persistentes, cum bracteolis segmentis calycis coriaceae ciliolatae utrinque cystolithis; bracteolae oblongo-ellipticae, 7~10 mm longae, apice obtusae; calyx c. 10 mm longus, bilabiatus, labio antico fere ad basin 2-partito, labio postico 3-fido, lobulis 5 mm longis medio lateralibus paulo angustiore omnino oblongis; corolla pallide purpurea vel purpurea, 4~5 cm longa, paulo curvata, extus glabra, tubo c. 1 cm longo cylindrico, fauce campanulata 2.5~3.5 cm longa, lobis 5 c. 5~6 mm longis apice 2-lobulatis; stamina 4, didynama, inclusa, filamentis anticis 7 mm longis posticis 2 mm longis omnino parce hirsutis, thecis 3.5~4 mm longis; ovarium glabrum, utroque loculo ovoidis 2, stylo 2.8 cm longo hirsuto, stigmate glabro. Capsula juvenalis fusiformis, c. 17 mm longa.

Guangxi (广西): Napo (那坡), Nunghua (弄化), on limestone hill, in valley, in forest, alt. 890~1 200 m, D. Fang et al. (方鼎等) 3-1341 (GXMI); ibid., D. Fang and Liao Xinpei (方鼎、廖信佩) 22345 (GXMI); ibid., 1986. 11. 09, Qin Dehai and Rao Weiyuan (覃德海、饶伟源) 79904 (holotype, GXMI); ibid., D. Fang, Zeng Ling and Zhou Lishuang (方鼎、曾玲、周丽双) 0579 (GXMI, GXNM).

亚灌木，高达 1.5 m，除花外无毛。叶狭椭圆形至披针形，稀卵状椭圆形，长 4~17 cm，宽 1.5~4.5 cm，边近全缘或有不规则的疏浅钝齿，侧脉每边 (3~) 5~6 条。穗状花序生于部分叶腋，长 1.5~3.5 (~7) cm，间断；苞片对生、通常椭圆形，长 2.5~6 (~8) mm，先端钝圆，1 枚不孕，宿存；萼长 5 mm，二唇形，下唇 2 裂几达基部，上唇 3 半裂，裂片长 5 mm，中间 1 枚稍狭；花冠紫色，长 4~5 cm，外面无毛，裂片 5，长 5~6 mm，有凹缺；雄蕊二强、花丝均疏被硬毛。

近似印度的 *S. griffithiana* (Nees) T. Anders.，但那种叶宽针形，侧脉 10 对；穗状花序长达 20 cm，被粘质短柔毛；苞片狭三角形，长约 25 mm；花冠黄色。

5.13 糙毛马蓝 新种

Strobilanthes strigosa D. Fang et Lo, sp. nov.

A *S. oligantha* Miq. differt ramis supra medium sicco nigricantibus, ramulis retrorso-strigosis et hirsutis, bracteis bracteolis calycis segmentis margine omnino articulato-glanduloso-ciliatis, corolla extus glabra.

Suffrutex c. 30~60 cm altus; rami flexuosi, inferne lenticellati, supra medium cum foliis bracteisque sicco nigricantes; ramuli subquadrangulares 2-sulcati retrorso-strigosi et hirsuti. Folia opposita, subaequalia; laminae crasse chartaceae, ellipticae vel late ovatae, 3.5~8 cm longae, 2~5 cm latae, apice acutae, basi attenuatae vel rotundae, denticulatae serratae, utrinque plus minusve strigosae, supra secus costas, nervos et juxta marginem saepe hirsutae, cystolithis lineolatis obscuris, nervis lateralibus utrinsecus c. 7 cum costis utrinque prominulis, venuis transversalibus; petioli 5~12 mm longi, strigosi et hirsuti. Inflorescentia axillaris ad apicem ramorum, 2~3 cm longa, breviter spicata, continua; pedunculus inconspicuus; bracteae oppositae, subfoliaceae, 9~10 mm longae, 5~6 mm latae, apice acutae vel obtusae, penninerviae, 1-florae, persistentes, cupi bracteolis segmentisque calycis utrinque cystolithis et pubescentes margine articulato-glanduloso-ciliatae; bracteolae oblongolatae, 9 mm longae; calyx fere ad basin inaequaliter

5-partitus, segmentis sublineari-spathulatis 2 anticus 12 mm longis 3 posticis 10 mm longis; corolla purpureo-rosea, 4.5 cm longa, leviter curvata, extus glabra, tubo c. 1.5 cm longo cylindrico, fave campanulata 2.3 cm longa, lobis 5 c. 7 mm longis apice rotundis; stamna 4, didynama, inclusa, filamentis anticus 5 mm longis pilosis posticis 2.5 mm longis glabris, loculis 2.5~3 mm longis; ovarium in utroque latere hirsutum, in quoque loculo ovulis 2, stylo 2.8 cm longo in dimidio supero cum stigmate sparse hirtello. Capsula non visa.

Guangxi (广西): Jingxian (靖西), Kuixu (魁圩), on limestone hillslope, 1987. 01. 11, Rao Weiyuan and Yen Kechien (饶伟源、严克俭) 23693 (holotype, GXMI).

亚灌木，高约30~60 cm；枝干时中部之上和叶，苞片带黑色；小枝被倒向短糙伏毛和硬毛。叶厚纸质，椭圆形或阔卵形，长3.5~8 cm，宽2~5 cm，边有齿、两面多少被糙伏毛，侧脉每边约7条。短穗状花序生于枝梢叶腋，长2~3 cm，连续；苞片近叶状，长9~10 mm，宿存，连同小苞片。萼裂片边缘均被具节腺状缘毛；萼不等大的5裂几达基部；花冠紫红色，长4.5 cm，外面无毛，裂片5，长7 mm，先端圆；雄蕊4，前对花丝被疏柔毛；子房两侧被短硬毛。

本种花序短穗状，而与少花马蓝 *S. oligantha* Miq. 接近，但枝干时上部带黑色，小枝被倒向短糙伏毛和硬毛，苞片、小苞片和萼裂片边缘均被具节腺状缘毛，花冠外面无毛。

5.14 锈毛马蓝 新种

Strobilanthes fulvhispida D. Fang et Lo, sp. nov.

Species habitu *S. maclarei* Merr. proxima, a qua bracteis spathulatis usque oblongis 9~26 mm longis cum bracteolis et calycis segmentis extus margineque plus minusve longe articulato-ferrugineo-hispida, corolla dimidio breviore recedit.

Suffrutex ultra 35 cm altus; rami teretes, superne flexuosi juventute obtuse quadrangulares, sulcati, plus minusve adpresso-ferrugineo-hirtelli. Folia opposita, inaequalia, petiolata; lamina papyracea, ovata vel late ovata, 3~10 cm longa, 2~5.7 cm lata, apice acuta, basi breviter attenuata, margine crenulata, utrinque ad costam nervosque parce adpresso-hirtella, subtus cystolithis albis lineolatis, nervis lateralibus utrinsecus 4~6 cum costa utrinque prominulis, venuis transversalibus, petiolo 0.4~2 cm longo anguste alato hirtello secus utroque latera parce ferrugineo-hispido. Inflorescentia axillaris, 2~3 cm longa, breviter spicata, continua; pedunculus brevissimus, ferrugineo-hirtellus; bracteae oppositae, extremae spathulatae penninerviae dorso cystolithis cetero oblongo-spathulatae vel oblongae, 9~26 mm longae, 1.5~12 mm latae, margine supra medium parce crenulatae vel serratae, apice obtusae, 1-florae, persistentes, cum bracteolis segmentisque calycis utrinque parce hirtellae extus et margine et intus juxta apicem plus minusve patule 1~3.5 mm longae articulato-ferrugineo-hispidae; bracteolae oblongae vel oblongo-spathulatae, 5~12 mm longae, margine juxta apicem interdum parce serratae; calyx 5~6 mm longus, 5-partitus, segmentis sublinearibus 4~5 mm longis; corolla colore ignoto, 15 mm longa, extus retroso-pubescent, recta, tubo 4 mm longo cylindrico, in fave infundibuliformi inflata 9 mm longa, lobis 5 c. 2 mm longis apice rotundis; stamna 4, didynama, inclusa, filamentis anticus 3 mm longis fere glabris posticis 1.5 mm longis glabris, loculis 1.5 mm longis; ovarium glabrum, ovulis in quoque loculo 2, stylo 10~12 mm longo parce hirtello. Capsula ignota.

Guangxi (广西): Longzhou (龙州), Longgang (弄岗), on limestone hillslope, 1979. 11. 10, Longgang Compl. Exped. (弄岗综合队) 11621 (holotype, IBK).

亚灌木，高超过35 cm；嫩枝多少被贴伏的锈色短硬毛。叶卵形或阔卵形，长3~10 cm，宽2~5.7

cm, 边有浅钝齿, 叶脉两面疏被贴伏的短硬毛, 侧脉每边4~6条。短穗状花序腋生, 长2~3 cm; 苞片最外侧的匙形, 内面的长圆状匙形至长圆形, 长9~26 mm, 宿存, 和小苞片、萼裂片外面和边缘均被开展的具节锈色糙硬毛; 萼5深裂, 裂片长4~5 mm; 花冠长15 mm, 外被倒向短柔毛, 裂片5, 长2 mm, 先端圆; 雄蕊4; 子房无毛, 花柱疏被短硬毛。

本种体态与海南马蓝 *S. macilurei* Merr. 极为相近, 但苞片匙形至长圆形, 长9~26 mm, 和小苞片、萼裂片外面和边缘多少被具节锈色长糙硬毛; 花冠短一半。

5.15 长苞马蓝

Strobilanthes jugorum R. Ben. in Bull. Soc. Bot. France 81: 601. 1934 et in Lecomte, Fl. Gén. Indo-Chine 4: 671. 1935. —— *Tetraglochidium jugorum* (R. Ben.) Brem. in Proc. K. Nederl. Akad. Wet., Ser. c, 60: 2. 1957.

广西: 宁明, 峇浪, 草地, 1977. 06. 06, 何有圻 2-46 (GXMI).

分布: 越南北部。我国(广西)新记录。

5.16 薄叶马蓝

Strobilanthes labordei Lévl. in Fedde, Rep. Sp. Nov. 12: 20. 1913. —— *Acantopale labordei* (Lévl.) Hand.-Mazz. in Sinensis 5: 20. 1934. —— *Championella labordei* (Lévl.) E. Hossain in Notes Bot. Gard. Edinb. 32: 405. 1973.

广西: 昭平, 大槽山, 山顶, 1957. 08. 12, 蒋承曾、夏民生, 程仕品 4115 (IBK).

分布: 贵州。广西新记录。

5.17 环状马蓝(中国高等植物图鉴)

Strobilanthes cyclo Clarke ex W. W. Smith in Notes Bot. Gard. Edinb. 10: 192. 1918; 中国高等植物图鉴 4: 160, 图 5734. 1975.

广西: 隆林, 金钟山, 1983. 03. 20, 罗金裕、黄志 25844 (GXMI).

分布: 云南。广西新记录。

5.18 大苞马蓝

Strobilanthes gigantodes Lindau in Bull. Herb. Boiss. 5: 649. 1897; R. Ben. in Lecomte, Fl. Gén. Indo-Chine 4: 670. 1935.

广西: 防城, 十万大山, 陈少卿 4927 (IBSC)、5266 (IBSC); 同地, 林中, 海拔200 m, 1975. 08. 17, 方鼎、廖信佩 76573 (GXMI).

云南: 思茅, 毛品一 2751 (IBSC), 屏边, 昆明站 6469 (IBSC).

分布: 越南北部。我国(广西和云南)新记录。

5.19 腺苞马蓝 新种

Strobilanthes glandibracteata D. Fang et Lo, sp. nov.

Proxima *S. pentstemonoides* (Nees) T. Anders., quae foliis ellipticis, pedunculis plerumque glanduloso-pubescentibus, bracteis suborbicularibus apice rotundatis cum corollis extus omnino glabris differt.

Herba ultra 40 cm alta; rami quadrangulares, paulo flexuosi; ramuli bisulcati, in sulcis plerumque pubescentes. Folia opposita, inaequalissima, petiolata; lamina papyracea usque crasse papyracea, ovato-elliptica raro angusto-ovata vel lanceolata interdum inaequilateralis, major 5.5~12.5 cm longa, 2~4.5 cm lata, minor 2~3.5 cm longa, 0.4~2.9 cm lata, apice caudato-acuminata, basi attenuata, serrulata,

utrinque secus costam, nervos venulasque sparse pubescens vel glabra et cystolithis lineolatis obscuris, nervis lateralibus utrinsecus 4~7 cum costa utrinque prominulis, venulis transversis; petiolus 0~7 mm longus, sparse pubescens. Inflorescentia ex axillis foliorum superiorum et ad apicem ramorum oriunda, capitata, c. 3~4-flora, simplex interdum 2~5 in paniculam disposita; pedunculus 0.6~3.5 cm longus, bisulcatus, in sulcis pubescens, apicem versus crassiusculus; bracteae ellipticae vel ovato-ellipticae, 6~13 mm longae, 3.5~7 mm latae, apice acutae vel obtusae, extus articulato-glandulos-pubescentes, cystolithis, caducae vel deciduae; calyx fere ad basin 5-partitus, segmentis lanceolatis vel linearibus inaequilongis postico 8 mm longo ceterum 4 brevioribus 6~7 mm longis extus margine intus juxta apicem articulato-glandulos-pubescentibus; corolla pallide purpurea, c. 3.5 cm longa, paulo curvata, extus in alabastro parce glandulos-pubescent sub anthesi subglabra, tubo c. 1 cm longo cylindrico, fauce campanulata c. 2.2 cm longa, lobis 5 c. 3 mm longis apice retusis; stamna 4, didynama, inclusa, filamentis anticis 5 et 7 mm longis inaequalibus erectis parce villosis posticis 2 mm longis recurvis subglabris, antheris subglobosis 1.5 mm diam. aliquot barbatis; ovarium ferrugineo-glandulos-pubescent, ovula in quoque loculo 2, stylus c. 2 cm longus, parce glandulos-pubescent. Capsula ignota.

Guangxi (广西): Lingyun (凌云), Chengxiang (城厢), on limestone hill, 1977. 10. 11, Lingyun Exped. (凌云队) 3-26065 (holotype, GXMI); ibid., Guangxi Med. Pl. Exped. (广西中药资源普查队) 0311 (Herbarium, Guangxi Company of Chinese Medicinal Materials).

草本，高超过 40 cm。叶卵状椭圆形，稀狭卵形或披针形，大的长 5.5~12.5 cm，小的长 2~3.5 cm，边有浅锯齿。头状花序生于上部叶腋和枝端；花序梗被 2 列短柔毛，先端稍增粗；苞片椭圆形至卵状椭圆形，先端急尖或钝，背面被具节腺状短柔毛，早落或凋落；萼不等大的 5 裂几达基部，外被具节腺状短柔毛；花冠淡紫色，长约 3.5 cm，外面近无毛，裂片 5，长 3 mm，微凹；雄蕊 4，前对花丝不等长，直立，后对花丝下弯，花药近球形；子房和花柱被锈色腺状短柔毛。

这个种的体态与球花马蓝 *S. pentstemonoides* (Nees) T. Anders. 极为相近，但后者叶椭圆形；花序梗常被腺状短柔毛；苞片近圆形，先端圆，和花冠外面均无毛。

5.20 宁明马蓝 新种

Strobilanthes ningmingensis D. Fang et Lo. sp. nov.

Species ex affinitate *S. psilostachyi* Clarke ex W. W. Smith, sed foliis ovatis minoribus apice acuminatis vel acutis basi rotundis utrinque nervis cum petiolis glabris cystolithis subtus secus nervos dispositis, calycis segmentis fere glabris vel glabris recedit.

Suffrutex ultra 20 cm altus; rami obtuse quadrangulares, sulcati, plus minusve cystolithis albis lineolatis et punctiformibus, internodiis glabris, nodis subglabris. Folia opposita, inaequalia, glabra, petiolis c. 3~7 mm longis cystolithis munita; laminae chartaceae, ovatae, maiores 3~5.5 cm longae, 1.3~3 cm latae, minores 9~17 mm longae, 2.5~10 mm latae, apice acuminatae vel acutae, basi rotundae decurrentes, serrulatae, cystolithis supra densis lineolatis subtus secus nervos venulasque saepe 1~2-fariam ad costas densioribus dispositis, nervis lateralibus utrinsecus 4~6 cum costis utrinque prominulis, venulis transversalibus. Inflorescentia axillaris et terminalis, capitata, 4-flora, simplex; pedunculus c. 2~3 cm longus, apicem versus crassiusculus, fere glaber, cystolithis sparsis; bracteae ellipticae, 8~12 mm longae, c. 6 mm latae, acutae, extus fere glabrae, margine parce in conspicue ciliolatae, cystolithis, caducae; bracteolae non visae; calyx 5-partitus, segmentis oblongo-ellipticis inaequilongis postico 7 mm longo ceterum 4

brevioribus c. 6 mm longis utrinque aliquot inconspicue adpresso— margine patenti—hirtellis vel glabris; corolla caerulea, c. 4 cm longa, paulo curvata, extus in alabastro glabra vel fere glabra sub anthesi glabra, tubo cylindrico c. 1 cm longo, fauce campanulata c. 2.3 cm longa, lobis 5 c. 6 mm in diam. apice retusis; stamina 4, didynama, inclusa, filamentis anticis 7 et 9 mm longis inaequalibus erectis posticis c. 2 mm longis recurvis omnino glabris, antheris subglobosis aliquot barbatis; ovarium apice cum stylo basi aliquot glanduloso—puberulum ceterum glabrum, ovula in quoque loculo 2, stylus cum stigmate c. 3 cm longus. Capsula non visa.

Guangxi (广西) : Ningming (宁明), Tingliang (亭亮), on limestone hill, alt. about 280 m, 1985. 12. 21, Mo Anna (莫安娜) 0765 (GXMI).

亚灌木，高超过 20 cm，叶卵形，大的长 3~5.5 cm，小的长 9~17 mm，先端渐尖至急尖，基部近圆形，边有浅锯齿，针晶体在下面沿侧脉和小脉常 1~2 行排列，在中脉上较密，连叶柄无毛。头状花序腋生和顶生；花序梗先端稍增粗；苞片椭圆形，早落；萼不等大的 5 深裂，裂片几乎无毛或无毛；花冠蓝色，长约 4 cm，外面无毛，裂片 5，径约 6 mm，微凹；雄蕊二强，前对花丝不等长，直立，后对花丝下弯，花药近球形；子房先端和花柱基部被少许微腺毛。

本种与细穗马蓝 *S. psilostachys* Clarke ex W. W. Smith 近缘，但叶卵形，较小，先端渐尖至急尖，基部近圆形，叶脉两面和叶柄无毛，针晶体在叶背沿脉分布，萼裂片几乎无毛或无毛。

5.21 卵苞马蓝 新种

Strubilanthes ovatibracteata Lo et D. Fang, sp. nov.

Affinis *S. dimorphotrichae* Hance, quae foliis supra pilis 2~3-articulatis rarius conspersis, bracteis ovatis subito breviter acuminatis glaberrimis, calycis segmentis articulato—glandulosi—pilosus differt.

Herba vel suffrutex 0.5~2 m altus; rami robusti, quadrangulares, sulcati, retrorso—hirtelli. Folia opposita, inaequalia, petiolis 1~10 (~20) mm longis; lamina chartacea, ovato—elliptica raro ovata, major 3~10.5 cm longa, 1.5~4.5 cm lata, minor 1~4 cm longa, 0.5~1.9 cm lata, apice acuta vel acuminata, basi attenuata interdum leviter inaequilateralis, serrulata, supra cystolithis densis albis lineolatis, utrinque ad costam, nervos, venulas et petiolum plus minusve hirtella, nervis lateralibus utrinsecus 3~6 cum costa utrinque prominulis. Inflorescentia axillaris et terminalis, capitata, 3~4-flora, saepe simplex raro 2~3 (~9) in paniculam disposita; pedunculus 0.4~2 cm longus, apicem versus crassiusculus, retrorso—hirtellus; bracteae lato—ovatae raro obovatae, 4~13 mm longae, 2~8 mm latae, apice obtusae vel acutae, cum bracteolis extus parce hirtellae cystolithis ciliolatae caducae; bracteolae angusto—ovatae vel obovatae, 2~5 mm longae; calyx prope basin 5-partitus, segmentis linearibus vel lanceolatis subinaequalibus 6~7 mm longis 1~1.5 mm latis utrinque marginaque hirtellis; corolla purpurea, 3.5~4.3 cm longa, extus pubescens, tubo 1.2 cm longo cylindrico leviter curvato, in fauce campanulata c. 2.2 cm longa, lobis 5 subaequalibus 4 mm longis 4~5 mm latis apice retusis; stamna 4, didynama, inclusa, filamentis anticis 6 et 7 mm longis inaequalibus erectis posticis 2 mm longis recurvis omnino glabris, antheris subglobosis aliquot barbatis; ovarium apice glandulosi—pubescens, utroque loculo biovulatum, stylo c. 3.2 cm longo fere glabro. Capsula ignota.

Guangxi (广西) : Shangsi (上思), Nadang (那荡), valley, in forest, alt. about 360 m, 1975. 10. 18, D. Fang and Liao Xinpei (方鼎、廖信佩) 35163 (holotype, GXMI); Dongxing (东兴), Fulong (扶隆), Fulong Group (扶隆组) 834 (GXMI); ibid., Naqin (那勤), Naqin Group (那勤组) 331 (GXMI); ibid., Dalu (大茅), X. X. Chen et al. (陈秀香等) 723 (GXMI).

草本, 稀亚灌木, 高达 2 m; 枝被倒生短硬毛。叶卵状椭圆形, 稀卵形, 大的长 3~10.5 cm, 小的长 1~4 cm, 先端急尖至渐尖, 边有浅锯齿, 叶脉两面和叶柄多少被短硬毛。头状花序, 腋生和顶生; 花序梗先端稍增粗; 苞片阔卵形, 稀倒卵形, 先端钝或急尖, 外面疏被短硬毛, 早落; 萼 5 裂, 稍不等大, 裂片外面和边缘被短硬毛; 花冠紫色, 长 3.5~4.3 cm, 外被短柔毛, 裂片 5, 长 4 mm, 微凹; 雄蕊二强, 前对花丝直立, 不等长, 后对花丝下弯, 花药近球形。

接近两广马蓝 *S. dimorphotricha* Hance, 那种叶上面散生多细胞柔毛; 苞片卵形, 先端骤短渐尖, 无毛; 萼裂片被多细胞腺状疏柔毛。

6 水蓑衣属 *Hygrophila* R. Br.

6.1 小叶水蓑衣(海南植物志)

Hygrophila erecta (Burm. f.) Hoch. in Candollea 5: 230. 1934; 海南植物志 3: 546. 1974.
——*Ruellia erecta* Burm. f. Fl. Ind. 135, t. 41, f. 3. 1768.

广西: 贺县, 大桂山林场, 林中水沟边, 海拔 180 m, 1989.10.08, 方鼎等 68150 (GXMI)。

分布: 海南; 缅甸和印度也有。广西新记录。

6.2 贵港水蓑衣 新变种

Hygrophila salicifolia (Vahl) Nees var. *longihirsuta* Lo et D. Fang, var. nov.

Varietas nova ob caulem robustum capsulas 15~17 mm longas var. *megalanthae* (Merr.) Lo et L. D. Chou similis, a var. *Salicifolia* et var. *megalantha* differt bracteolis et calycis segmentis persistentibus extus longe ferrugineo-hirsutis.

Guangxi (广西): Guixian (贵县), near stream, 1958. 10. 04, Zhong Shuquan (钟树权) 21089 (holotype, IBK).

本变种茎粗壮, 茎果长 15~17 mm, 而与大花水蓑衣 var. *megalantha* (Merr.) Lo et L. D. Chou 相似, 但与原变种和大花水蓑衣的区别在于: 宿存的小苞片和萼裂片外面被锈色长硬毛。

7 小狮子草属 *Hemiadelphus* Nees

7.1 小狮子草(中国种子植物科属辞典)

Hemiadelphus polysperma (Roxb.) Nees in Wall. Pl. As. Rar. 3: 80. 1832. ——*Justicia polysperma* Roxb. Fl. Ind. 1: 119. 1832. ——*Hygrophila polysperma* (Roxb.) T. Anders. in Journ. Linn. Soc. Bot. 9: 456. 1867; R. Ben. in Lecomte, Fl. Gén. Indo-Chine 4: 640. 1935.

广西: 临桂, 雁山, 1952. 11, 梁畴芬 30705 (IBK).

分布: 我国南部; 越南至印度, 斯里兰卡也有。广西新记录。

8 鳞花草属 *Lepidagathis* Willd.

8.1 长花鳞花草

Lepidagathis fasciculata (Retz.) Nees var. *major* Clarke in Hook. f., Fl. Brit. Ind. 4: 523. 1885.

广西: 扶绥, 山圩, 石山, 1989. 03. 04, 陈秀香 02397 (GXEM).

分布: 缅甸南部, 我国(广西)新记录。

8.2 海南鳞花草(海南植物志)

Lepidagathis hainanensis Lo in Fl. Hainan. 3: 552, 598, fig. 925. 1974.

广西: 岑溪, 榄筒, 山坡, 1977. 10. 12, 岑溪调查队 7-422 (GXMI).

分布: 海南; 广西新记录。

9. 老鼠簕属 *Acanthus* Linn.

9.1 小花老鼠簕(海南植物志)

Acanthus ebracteatus Vahl, Symb. Bot. 2: 75, t. 40. 1791; 海南植物志 3: 554. 1974.

广西: 东兴, 江平, 河边, 1976.10.11, 江平调查组 151 (GXMI).

分布: 海南和广东; 中南半岛、印度尼西亚和印度也有。广西新记录。

10. 火焰花属 *Phlogacanthus* Nees

10.1 广西火焰花

Phlogacanthus colaniae R. Ben. in Not. Syst. Paris 5 (2): 109. 1936 et in Lecomte, Fl. Gén. Indo-Chine 4: 710. 1935.

广西: 龙州, 李树刚 200516 (IBSC), 陈少卿 13979 (IBSC); 大新, 太平, 石山, 海拔约 200 m, 1990. 09. 25, 方鼎, 曾玲 0161 (GXMI)

分布: 越南北部。我国(广西)新记录。

11. 秋英爵床属 *Cosmianthemum* Brem.

11.1 广西秋英爵床 新种

Cosmianthemum guangxiense Lo et D. Fang, sp. nov.

Proximum *C. viridulifloro* (C. Y. Wu et Lo) Lo¹⁾ quod foliis ovatis vel late ovatis usque ad 9 cm latis, inflorescentiis unicus, axibus calycibusque glanduloso-pubescentibus, bracteis imis haud foliaceis, filamentis pilosis differt.

Herba erecta c. 70 cm alta; caulis inferne ramosus et rami teretes, badii, longitudinaliter rugoso-striati, glabri; rami quadrangulares, sulcati, sparsim pubescentes. Folia in eodem pari subaequalia, petiolata; laminae chartaceae, anguste ovato-ellipticae, 6.5~10.5 cm longae et 2~4 cm latae, apice acuminatae, basi rotundae vel obtusae, margine subundulatae, revolutae, supra interdum cystolithis sparsis lineolatis obscuris, utrinque fere glabrae, nervis lateralibus utrinsecus c. 5~6 cum costis subtus prominulis; petioli 0.6~1.5 cm longi, pubescenti. Inflorescentiae ternae paucem binae vel singulae saepe axillares ad apicem ramorum prodientes, 1~6 cm longae, racemiformes; pedunculi 0.5~4 cm longi rhachisque pubescens; flores ex cymis oppositis 3~1- raro infime 6-floris compositi; pedicellus brevissimus; bracteae oppositae, infimae saepe foliaceae ceterum subulatae vel anguste triangulares, e basi racemi ad apicem sensim breves, 2~23 mm longae, 0.8~4 mm latae, cum bracteolis segmentisque calycis extus subglabrae; bracteolae triangulares, c. 1.5 mm longae; calyx prope basin 5-partitus, segmentis linearis-lanceolatis 4 mm longis; corolla ex albenti purpurea, 12~13 mm longa, extus parce puberula et glanduloso-puberula, tubo recto cylindrico c. 3 mm longo, labio supero ovato c. 7 mm longo apice 2-dentato, infero 3-fido, lobis oblongis 4 mm longis apice obtusis; stamina 2, in fauce corollae affixa, filamentis glabris c. 3 mm longis, thecis 2 mm longis paulo inaequialitis basi ecalcaratis, superiore connectivo ultra loculum c. 0.5 mm longum producto; staminodia 2, prope basin filamentorum fertilium inserta, filiformia, 1 mm longa, glabra; ovarium glabrum, utroque loculo ovulis 2, stylo c. 8 mm longo inferne parce hirtello. Capsula non visa.

¹⁾*Cosmianthemum viriduliflorum* (C. Y. Wu et Lo) Lo, comb. nov. —— *Graptophyllum viriduliflorum* C. Y. Wu et Lo in FL Hainanica 3: 594, 555, fig. 928. 1974. Hainan (海南): Baoting (保亭), F. C. How (侯宽昭) 72966 (type, IBSC).

Guangxi (广西): Dongxing (东兴), Naqin (那勤), on hilltop, in forest, 1976. 10. 06, Naqin Group (那勤调查组) 342 (holotype, GXMI).

草本, 高约 70 cm。叶狭卵状椭圆形, 长 6.5~10.5 cm, 宽 2~4 cm, 基部近圆形至钝。花序每 3 稀 2 或 1 个常生于枝梢叶腋, 总状, 由 6~1 花的聚伞花序组成, 轴被短柔毛; 苞片最下一对常叶状, 余为钻状至狭三角形, 长 2~23 mm; 萼 5 裂, 近无毛; 花冠紫白色, 长 12~13 mm, 外面疏被微毛, 上唇长约 7 mm, 2 齿裂, 下唇 3 中裂; 雄蕊 2, 花丝无毛, 药室基部无距, 高的一枚药隔突出约 0.5 mm; 不育雄蕊 2, 生于能育雄蕊花丝的近基部, 丝状, 无毛。

本种与海南秋英爵床 *C. viriduliflorum* (C. Y. Wu et Lo) Lo 颇接近, 但那种叶卵形或阔卵形, 宽达 9 cm; 花序单出, 轴和花萼被腺状短柔毛; 最下部一对苞片绝非叶状; 花丝被疏柔毛, 可以区别。

11.2 长花秋英爵床 新种

Cosmianthemum longiflorum D. Fang et Lo, sp. nov.

C. knoxiiifolium (Clarke) B. Hansen affine, quod differt frutice, foliis usque ad 20 cm longis 7.3 cm latis nervis lateribus 8~10-jugis, inflorescentia 20~60 cm longa, rhachidi aliquot stipitato-glandifera, bractea calyceque glanduloso-pubescentes, corolla 8~10 mm longa.

Herba c. 20~30 cm alta; caulis simplex, pubescens, inferne subteres saepe repens, superne obtuse quadrangularis, sulcatus. Folia opposita, subaequalia, petiolis pubescentibus 3~8 mm longis; laminae papyraceae, oblongo-ellipticae raro subovatae, 2~13.5 cm longae, 1.4~2.9 cm latae, apice acuminatae obtusiusculae, basi cuneatae vel obtusae, subintegrae vel subundulatae, revolutae, utrinque in sicco olivaceae, supra glabrae interdum cystolithis sparsis lineolatis obscuris, subtus juxta marginem et ad costas nervosque sparsim pubescentes, costae supra impressae subtus prominulae, nervis lateribus utrinsecus c. (3~)4~6 utrinque prominulis. Inflorescentia axillaris ad apicem caulis, racemiformis, 2~3 cm longa; pedunculus 9~10 mm longus rhachisque sparsim pubescens; bractae oppositae, angusto-triangulares vel triangulares, 1.5~2 mm longae, cum pedicellis bracteolis segmentis calycis extus sparsim pubescentes; bracteolae ovatae, 1.5 mm longae; flores ex cymis oppositis 6~ vel 3~1-floris compositi; pedicellus 1.5 mm longus; calyx subaequaliter 5-partitus, segmentis angusto-triangularibus 2.5 mm longis; corolla extus virella sparsim puberula et glanduloso-puberula, intus purpurascens, 14 mm longa, tubo c. 5 mm longo apicem versus leviter angustato, labio supero ovato-triangulari 6 mm longo basi 4 mm lato apice 2-dentato, infero 3-lobato, lobis 1 mm longis, lobo medio latiore 1 mm lato apice rotundo; stamna 2, in fauce corollae inserta, filamentis glabris 4 mm longis, thecis 2 mm longis paulo inaequialitis basi ecalcaratis; staminodia 2, filiformia, 1 mm longa, apice aliquot pilifera; ovarium glabrum, in quoque loculo 2-ovulis, stylo 10 mm longo inferne sparsim pubescenti. Capsula non visa.

Guangxi (广西): Dongxing (东兴), Tansan (滩散), valley, in forest, 1976. 10. 12, Liu Huiming (刘辉明) 1499 (holotype, GXMI).

Hainan (海南): Baoting (保亭), F. C. How (侯宽昭) 72070, 72222, Wanning (万宁), Zhong Yi (钟义) 4545; ibid., Hainan Station (海南工作站) 399, 1939; Qiongzhong (琼中), Deng Liang (邓良) 3676.

Vietnam (越南): Tonkin (东京), Taai Wong Mo Shan (大黄毛山), W. T. Tsang (曾怀德) 27031, 29518; Kou Nga Shan (狗牙山), W. T. Tsang 30616; ibid., N.-E. of Moncay, W. T. Tsang 26930.

上引的海南和越南标本均存于 IBSC.

草本，高约 20~30 cm。叶长圆状椭圆形，稀近卵形，长 2~13.5 cm，宽 1.4~2.9 cm，基部楔形或钝，侧脉每边约 (3~) 4~6 条。花序生于茎梢叶腋，总状，长 2~3 cm，轴疏被短柔毛；苞片长 1.5~2 mm，和萼裂片外面均疏被短柔毛；花由 6~1 朵的聚伞花序组成；萼 5 深裂，裂片长 2.5 mm；花冠外面淡绿色，疏被微毛和腺状微毛，长 14 mm，上唇长 6 mm，2 齿裂，下唇 3 浅裂，裂片长 1 mm，中裂片稍宽；雄蕊 2，药室基部无距；不育雄蕊 2，丝状。

与产于泰国和马来半岛的 *C. knoxiiifolium* (Clarke) B. Hansen 近似，但那种为灌木；叶长达 20 cm，宽达 7.3 cm，侧脉 8~10 对；花序长 20~60 cm，轴有少许具柄的腺体；苞片和花萼被腺状短柔毛；花冠长 8~10 mm.

12. 山蓝属 *Peristrophe* Nees

12.1 广西山蓝 新种

Peristrophe guangxiensis Lo et D. Fang, sp. nov.

P. floribunda (Hemsl.) C. Y. Wu et Lo proxima, quae foliis ovatis vel lanceolatis usque ad 9 cm longis et 3.5 cm latis, bracteis involucralibus foliis conformibus multo majoribus apice acuminatis, corolla retrorso-pubescenti recedit.

Herba c. 30 cm alta; caulis prope basin ramosus; rami sulcati, pubescenti. Folia per paria subaequalia, petiolis 3~11 mm longis; laminae papyraceae, anguste ellipticae, 1.5~5 cm longae et 5~11 mm latae, apice acuminatae, basi attenuatae, subundulatae vel inconspicuae et parce crenulatae ciliolatae, utrinque parce pilosulae, secus costas, nervos, venulas petiolosque pubescentes, cystolithis albis lineolatis conspicuis, nervis lateralibus utrinsecus 3~6. Inflorescentia terminalis, 2-flora; pedunculus 3~15 mm longus, pubescens; bracteae involucrales 2, paulo inaequales, anguste ovatae, 7~12 mm longae, 3~5 mm latae, apice acutae vel subobtusae, cum bracteolis et segmentis calycis utrinque margineque semper plus minusve puberulae; bracteolae anguste triangulares, 2 mm longae; calyx 3.5 mm longus, scariosus, aequaliter 5-partitus, segmentis anguste triangularibus 2.5 mm longis; corolla rubra, c. 21 mm longa, extus infra medium tubi et prope marginem labii superi glabra cetero pubescens, tubo c. 11 mm longo et 1 mm crasso cylindrico, fauce brevissime ampliata, labio supero elliptico c. 10 mm longo 4 mm lato apice rotundo, labio infero ovato-elliptico 3-lobato, lobis c. 1 mm longis; stamina 2, in fauce corollae affixa, filamentis 6 mm longis parce pubescentibus, thecis linearibus 1 et 1.5 mm longis inaequilongis, inferiore breviore basi omnino ecalcaratis; ovarium in quoque loculo 2-ovulatum, stylus c. 20 mm longus cum ovario glaber, stigma aequaliter 2-lobatum. Capsula non visa.

Guangxi (广西); Shanglin (上林), Xiyan (西燕), 1977. 07. 23, Shanglin Group (上林调查组) 2-075 (holotype, GXMI).

草本，高约 30 cm。叶狭椭圆形，长 1.5~5 cm，宽 5~11 mm，被小缘毛，两面散生微疏柔毛，在脉和叶柄上被短柔毛。花序生于小枝顶端；总苞片 2，狭卵形，长 7~12 mm，先端急尖或稍钝；萼 5 深裂，裂片长 2.5 mm；花冠红色，长 21 mm，外面除管的中部之下和上唇近边缘无毛外，其余被短柔毛，上唇长约 10 mm，下唇 3 浅裂，裂片长约 1 mm；雄蕊 2，药室基部均无距；子房和花柱无毛。

此种与海南山蓝 *P. floribunda* (Hemsl.) C. Y. Wu et Lo 近缘，但后者叶卵形或披针形，长达 9 cm，宽达 3.5 cm；总苞片卵形或披针形，远较大，先端渐尖；花冠外被倒生柔毛。

13 纤穗爵床属 *Leptostachya* Nees

13.1 尾叶纤穗爵床 新种

Leptostachya caudatifolia Lo et D. Fang, sp. nov.

Species *L. wallichii* Nees affinis, quae foliis papyraceis vel tenuiter papyraceis, inflorescentia 5~15 (~30) cm longa rhachidi et calycis segmentis plus minusve glanduloso-pubescentibus, bracteis papyraceis, corolla 5.5~8.5 mm longa differt.

Herba c. 1 m alta, praeter inflorescentias glabra; caulis inferne ad nodos radicans; rami teretes; ramuli obtuse quadrangulares, sulcati. Folia quoque pari subaequalia vel leviter inaequalia, petiolata; lamina papyracea vel crasse papyracea, elliptica vel ovato-elliptica, 3~10 cm longa et 1.5~4.2 cm lata, apice breviter caudata, cauda c. 1 cm longa, basi cuneata, margine subintegra leviter revoluta, utrinque cystolithis densis lineolatis obscuris, in sicco flavidovires, costa subtus prominula, nervis lateralibus utrinsecus 5~6, petiolo 2~15 mm longo supra canaliculato. Inflorescentia axillaris, 1~3 cm longa, spicata, interrupta, simplex vel ramosa; pedunculus 5~15 mm longus rhachisque sulcata, in sulcis puberula; bracteae oppositae, linearis-triangulares, infimae interdum foliiformes, 3~4 (~10) mm longae, 1 (~2) mm latae, coriaceae, alterae fertiles 1-florae, alterae steriles, bracteolaeque ciliolatae; bracteolae ovatae 2.5~3 mm longae; calyx subaequaliter ad basin 5-partitus, segmentis angusto-triangularibus 2.5 mm longis ciliolatis; corolla alba, c. 11 mm longa, extus sparsim retrorsum-pubescent, tubo recto cylindrico 2 mm longo, labio supero lato-ovato c. 5 mm longo apice rotundo, infero rugulo 3-lobato, lobis suboblongis c. 2.5 mm longis apice rotundis; stamina 2, in fauce corollae affixa, filamentis c. 3 mm longis glabris, thecis oblongis 2 mm longis inaequialitis basi ecalcaratis; ovarium glabrum, utroque loculo 2-ovulatum, stylus c. 5 mm longus, fere glaber. Capsula ignota.

Guangxi (广西): Lingyun (凌云), Xiajia(下甲), on rocky surface of limestone hilltop, in forest, 1977. 10. 12, Li Jingxi (李景熙) 3-26100 (holotype, GXMI).

草本，高约1m，除花序外无毛。叶纸质至厚纸质，椭圆形至卵状椭圆形，长3~10cm，宽1.5~4.2cm，先端短尾状，干时黄绿色，侧脉每边约5~6条。穗状花序腋生，长1~3cm，间断，轴被二列微毛；苞片对生，线状三角形，基部的有时叶状，长3~4 (~10) mm，革质，一枚不孕；萼5裂，裂片狭三角形，长2.5mm；花冠白色，长约11mm，外面疏被倒向短柔毛，上唇长约5mm，下唇3浅裂，裂片长约2.5mm；雄蕊2，药室不等高，基部无距；花柱几乎无毛。

与纤穗爵床 *L. wallichii* Nees 的区别在于：那种叶纸质或薄纸质，花序长5~15 (~30) cm，花序轴和萼裂片多少被腺状短柔毛，苞片纸质，花冠长5.5~8.5mm。

14. 孩儿草属 *Rungia* Nees

分 种 检 索 表

1. 花序不为一侧向 腋花孩儿草 *R. axilliflora* Lo
1. 花序一侧向.
 2. 苞片无缘毛；枝干后暗紫色 广西孩儿草 *R. guangxiensis* Lo et D. Fang
 2. 苞片多少被缘毛；枝干后不为暗紫色.
 3. 不育苞片与能育苞片明显异形.
 4. 叶较狭，宽约达1.5cm；花冠长约5mm 孩儿草 *R. pectinata* (Linn.) Nees

4. 叶较阔, 宽约达 4 cm; 花冠长约 16 mm 那坡孩儿草 *R. napoensis* D. Fang et Lo
3. 不育苞片与能育苞片同形或近同形。
5. 苞片先端尖, 外面被腺状微毛 尖苞孩儿草 *R. pangens* D. Fang et Lo
5. 苞片先端钝或圆, 外面无腺状微毛。
6. 苞片倒卵形; 花冠长约 18 mm, 管内有 2 个乳头状小囊 腋花孩儿草 *R. bisaccata* D. Fang et Lo
6. 苞片椭圆形至倒卵状椭圆形或卵形。
7. 叶较小, 宽约达 4 cm, 边缘全缘或浅波状; 苞片长 5~6 mm, 缘毛明显 中华孩儿草 *R. chinensis* Benth.
7. 叶较大, 宽约达 8.5 cm, 边缘有波状浅齿; 苞片长 10~12 mm, 缘毛几乎不明显。
- 长柄孩儿草 *R. longipes* D. Fang et Lo

14.1 腋花孩儿草(植物分类学报)

Rungia axilliflora Lo in Acta Phytotax. Sin. 16(4): 92, fig. 1. 1978.

广西: 乐业, 同乐, 山沟边, 海拔 450 m, 1975. 09. 12, 方鼎、廖信佩 73865 (GXMI).

分布: 贵州西南部。广西新记录。

14.2 广西孩儿草 新种

Rungia guangxiensis Lo et D. Fang, sp. nov.

R. naoensi B. Hansen affinis, quae bracteis fertilibus rotundis cum calycibus brevi-stipitato-glandiferis, sterilibus ovatis, calycibus 5~6 mm longis, corolla alba 13 mm longa extus pubescens differt.

Herba erecta circ. 70 cm alta; ramus subteres, atro-purpureus, subglaber vel in parte juvenali puberulus. Foliorum lamina tenuiter papyracea, elliptica vel subovata, 9~17 cm longa, apice breviter acuminata, basi cuneata, integra, supra glabra, subtus puberula, nervis lateralibus utrinsecus circ. 7 subtus complanatis. Spica ad ramos laterales terminalis; pedunculus brevissimus vel nullus; bracteis quadrifariis imbricato-superpositis, fertilibus suboblongis circ. 7 mm longis, sterilibus late obovatis 7~8 mm longis apice rotundis glabris; calyx circ. 2.5 mm longus, fere ad basin 5-partitus; corolla rubra, 1.7 cm longa, extus glabra, tubo basi circ. 1.5 mm diam, apicem versus sensim dilatato, limbo 5~6 mm longo, labio supero late ovato-triangulari apice obtuso, infero patentii trilobato; stamna 2, subexserta, antheris bilocularibus, thecis subovatis, inferiore basi calcarata. Capsula ignota.

Guangxi (广西); Fangcheng (防城), Tansan (滩散), in dense forest, 1956. 04. 15, Hepu Exped. (合浦队) 2388 (type, IBSC).

草本, 高约 70 cm; 枝暗紫色。叶椭圆形或近卵形, 长 9~17 cm, 全缘, 下面被微毛, 侧脉每边 7 条。穗状花序在侧枝上顶生; 苞片 4 列, 能育苞片近长圆形, 长约 7 mm, 不育苞片倒卵形, 长 7~8 mm, 顶端圆, 无毛; 萼长约 2.5 mm; 花冠红色, 长 1.7 mm, 外面无毛, 上唇顶端钝, 下唇浅 3 裂; 雄蕊 2, 花药较低一室有距。

新种近 *R. naoensis* B. Hansen, 后者能育苞片近圆形, 连同花萼被短柄的腺体, 不育苞片卵形; 花萼长 5~6 mm; 花冠白色, 长 1.3 mm, 外被短柔毛。

14.3 那坡孩儿草 新种

Rungia napoensis D. Fang et Lo, sp. nov.

Affinis *R. pipienensi* Lo, quae foliis submembranaceis ellipticis vel late ellipticis nervis lateralibus c. 9~10-jugis, bracteis sterilibus fertilibus conformibus aequalibus c. 15 mm longis non ciliolatis apice breviter

acuminatis recedit.

Herba 70~90 cm alta; caulis flexuosus, inferne repens; rami teretes in juventute obtuse quadrangulares, sulcati, bifarium pubescentes. Folia in paribus subaequalia vel inaequalia; lamina chartacea, anguste elliptica vel lanceolata, 3~10 cm longa et 1~4 cm lata, apice acuminata, basi cuneata, subintegra, supra glabra, subtus secus costam nervosque pubescens, utrinque cystolithis lineolatis, nervis lateralibus utrinsecus 4~7 cum costa subtus prominulis; petiolus 0.5~2.5 cm longus, in utroque latere pubescens. Inflorescentia spicata, 1~5 cm longa, secunda, saepe axillaris ad apicem ramulorum; pedunculus 3~5 mm longus, pubescens; bracteae quadrifariae, seriebus 2 internis fertilibus, steriles parvae, suboblongo-ellipticae, c. 4 mm longae, 1~2 mm latae, inaequilaterales, apice acutae, extus fere glabrae, saepe non scarioso-marginatae, ciliolatae; fertiles ellipticae, 9 mm longae, 4 mm latae, dorso fere glabrae, cystolithis, apice acutae, ciliolatae, marginibus purpureo-scariosis c. 0.5 mm latis; bracteolae ellipticae, 9 mm longae, 5 mm latae, apice purpuratae, cuspidatae, cum segmentis calycis dorso margineque sparse puberulae; calyx fere ad basin 5-partitus, segmentis subulatis 6 mm longis scariosis; corolla alba, 16 mm longa, extus sparse pubescens, tubo 7 mm longo 2 mm crasso, labio supero trianguli 6 mm longo apice emarginato, infero 3-lobato, lobo medio latiore; stamina 2, filamentis glabris 3 mm longis, thecis 1.5 mm longis, inferiore basi calcarata; ovarium glabrum, utroque loculo ovulis 2 instructum, stylo 12 mm longo fere glabro. Capsula ignota.

Guangxi (广西); Napo (那坡), Guoba (果把), limestone hill, valley by stream, 1976. 02. 23, D. Fang and Liu Dayu (方鼎、刘达雨) 21968 (holotype, GXMI).

草本，高 70~90 cm。叶纸质，狭椭圆形至披针形，长 3~10 cm，宽 1~4 cm，下面沿脉被短柔毛，侧脉每边 4~7 条；叶柄两侧被短柔毛。穗状花序常单生于枝梢叶腋，偏于一侧；苞片 4 列，不育苞片近长圆状椭圆形，长约 4 mm，能育苞片椭圆形，长 9 mm，先端均急尖，被小缘毛；萼裂片长 6 mm；花冠白色，长 16 mm，外面疏被短柔毛，上唇长 6 mm，下唇 3 浅裂，中裂片较宽；雄蕊 2，药室低的一枚有距；花柱几乎无毛。

此种与屏边孩儿草 *R. pinpienensis* Lo 有些接近，但那种叶近膜质，椭圆形或阔椭圆形，侧脉 9~10 对；不育苞片与能育苞片同形，等大，长约 15 mm，无缘毛，先端短渐尖。

14.4 尖苞孩儿草 新种

Rungia pungens D. Fang et Lo, sp. nov.

Ex affinatate *R. pinpienensi* Lo, quae foliorum nervis lateralibus c. 9~10-jugis, bracteis omnino oblongis vel elliptico-oblongis c. 15 mm longis glabris, capsulis 12 mm longis glabris, calycis segmentis persistentibus c. 5 mm longis differt.

Herba 0.5~1.5 m alta; caulis erectus vel inferne prostratus ad nodos radicans; rami teretes juventute subquadrangulares glabri vel bifarium pubescentes. Folia opposita subaequalia; laminae tenuiter chartaceae vel chartaceae, ellipticae usque ovato-ellipticae, 2.5~16 mm longae, 0.9~5.5 cm latae, apice acuminatae, basi late cuneatae, subundulatae, utrinque glabrae, cystolithis lineolatis, nervis lateralibus utrinsecus 4~9; petioli 0.4~5.5 cm longi, glabri. Spicae terminales et axillares, 2~5 cm longae, secundae, densiflorae, rhachidibus pubescentibus et glanduloso-pubescentibus; pedunculi c. 1~9 mm longi; bracteae 4-fariae, seriebus 2 internis fertilibus, steriles late ellipticae, 7.5~8 mm longae, 4~6 mm latae, marginibus purpureo-scariosis 0.8~1.5 mm latis, interdum inaequilaterales, apice pungentes raro cuspidatae, cum fertilibus bracteolis segmentis calycis extus margineque glanduloso-puberulae et puberulae; fertiles ellipticae,

6.5~7.5 mm longae, 4 mm latae, marginibus pallide purpureo-scariosis c. 1 mm latis; bracteolae ellipticae, 6 mm longae, scariosae, intus glabrae; calyx 6~7 mm longus, fere ad basin 5-partitus, segmentis sublinearibus scariosis leviter inaequilatis; corolla c. 15 mm longa, extus flavidovirens glandulosopubescent et pubescens, intus albida maculis purpureis, tubo 7 mm longo, labio supero trianguli 6 mm longo apice emarginato, infero 3-lobato, lobo medio latiore; stamna 2, filamentis 3.5 mm longis glabris, thecis 1.5 mm longis inferiore basi calcarata, superiore dorso puberula; stylus c. 10 mm longus, infra medium sparsim pubescens. Capsula c. 8 mm longa, extus glandulosopuberula et puberula, brevirostris, calycis segmentis persistentibus c. 7 mm longis; semina 4, compressa, verrucosa.

Guangxi (广西): Napo (那坡), Nunghua (弄化), limestone hill, valley, in forest, alt. 900~970 m, Wang Zhengang et al. (王振刚等) 3-1766 (GXMI); ibid., 1984. 04. 17, D. Fang and Qin Dehai (方鼎, 覃德海) 79542 (holotype, GXMI), 79871 (GXMI); ibid., H. S. Lo, D. Fang et al. (罗献瑞, 方鼎等) 25190 (IBSC, GXMI); Chongzuo (崇左), Luo Jinyu (罗金裕) 23197 (GXMI); Binyang (宾阳), Silong (思陇), alt. 700 m, Binyang Group (宾阳调查组) 2-0237 (GXMI).

草本, 高达 1.5 m。叶椭圆形至卵状椭圆形, 长 2.5~16 cm, 宽 0.9~5.5 cm, 侧脉每边 4~9 条。穗状花序顶生和腋生, 倾于一侧; 苞片 4 列, 不育苞片圆椭圆形, 长 7.5~8 mm, 先端锐尖, 稀骤尖, 连同能育苞片外面与边缘均被腺状微毛和微毛, 能育苞片椭圆形, 长 6.5~7.5 mm; 花冠长约 15 mm, 外面淡黄绿色, 被腺状短柔毛和短柔毛, 上唇长 6 mm, 微缺, 下唇 3 浅裂, 中裂片较宽; 雄蕊 2, 药室低的一枚有距。蒴果长约 8 mm, 外被腺状微毛和微毛, 具长约 7 mm 的宿存萼裂片。

本种体态与屏边孩儿草 *R. pinpienensis* Lo 相似, 但后者叶片侧脉约 9~10 对; 苞片全为长圆形或椭圆状长圆形, 长约 15 mm; 蒴果长 12 mm, 无毛; 宿存萼裂片长约 5 mm。

14.5 褶花孩儿草 新种

Rungia bisaccata D. Fang et Lo, sp. nov.

Species *R. densiflorae* Lo similis, quaे bracteis omnino fertilibus 1.5~3 mm latis 3-nerviis, bracteolis obovatis c. 6 mm longis, calycibus c. 4 mm longis, corollis praeter labia infera glabris tubis intus haud 2-saccatis diversa.

Herba ultra 25 cm alta; caulis subteres juventute obtuse quadrangularis, bisulcatus, in sulcis pubescens. Folia opposita, leviter inaequalia; lamina chartacea, ovato-elliptica, 5~13 cm longa, 2.3~5.7 cm lata, apice acuminata obtusiuscula, basi late cuneata vel acuta, subundulata, supra glabra, subtus secus costam nervosque pubescens, utrinque cystolithis densis lineolatis, nervis lateralibus utrinsecus 5~6 cum costa subtus prominulis, petiolo 0.8~2.5 cm longo pubescenti suffulta. Inflorescentia axillaris ad apicem caulis, spicata, c. 5 cm longa, densiflora, unilateralis, rhachidi adpresso-pubescenti; pedunculus c. 3 mm longus; bracteae imbricatae, 4-fariae, seriebus 2 posticis sterilibus, steriles fertilibus conformes, omnes obovatae, 7~11 mm longae, 4~8 mm latae, apice rotundae, sparse ciliolatae, extus fere glabrae, marginibus pallide purpureo-scariosis c. 0.5~1 mm latis; bracteolae oblongo-ellipticae, 10 mm longae, 4 mm latae, scariosae, sparse ciliolatae; calyx fere ad basin 5-partitus, segmentis subulatis 7 mm longis scariosis sparse ciliolatae; corolla e roseo alba, 18 mm longa, utrinque aliquot glandulosopuberula, tubo c. 9 mm longo basi 2.5 mm diam. apicem versus leviter angustato, labio supero ovato-triangulari 5 mm longo apice subintegro vel emarginato intus 5 mm supra basin tubi sacculis 2 papilliformibus c. 1 mm longis ornato, labio infero 3-lobato, lobo medio latiore; stamna 2, filamentis 5 mm longis glabris, thecis 2 mm longis inferiore basi

calcarata; *ovarium glabrum*, *utroque loculo ovulis 2 instructum*, *stylo 13 mm longo glabro*. *Capsula non visa*.

Guangxi (广西); Ningming (宁明), Xiashi (夏石), on limestone hill, 1973. 02. 27, Wang Jianjun (王鉴钩) 5482 (holotype, GXMI).

草本, 高逾 25 cm。叶卵状椭圆形, 长 5~13 cm, 宽 2.3~5.7 cm, 侧脉每边 5~7 条。穗状花序生于茎梢叶腋, 一侧向; 苞片 4 列, 能育的与不育的均为倒卵形, 长 7~11 mm, 宽 4~8 mm, 先端圆, 疏被小缘毛, 外面几无毛; 小苞片长圆状椭圆形、长 10 mm; 尊裂片长 7 mm; 花冠白带红色, 长 18 mm, 两面稍有腺状微毛, 管内有 2 个乳头状小囊, 上唇长 5 mm, 下唇 3 浅裂, 中裂片较宽; 雄蕊 2, 药室低的一枚有距; 子房和花柱无毛。

这个种与密花孩儿草 *R. densiflora* Lo 的区别: 那种苞片全部能育、宽 1.5~3 mm, 具 3 脉; 小苞片倒卵形, 长约 6 mm; 花尊长约 4 mm; 花冠天蓝色, 仅下唇中裂片外面被须毛, 其余无毛, 管内无囊突。

14.6 长柄孩儿草 新种

Rungia longipes D. Fang et Lo, sp. nov.

Affinis *R. yunnanensis* Lo, quae differt foliorum nervis lateralibus utrinsecus 10~12, petiolis 1.5~2 cm longis, bracteis sterilibus ovatis fertilibus longe ellipticis, bracteolis ellipticis, capsulis farinaceo-tomentosis.

Herba c. 0.5 m alta; rami teretes, juventute subquadrangulares, bifariam pubescentes. Folia opposita, longe petiolata; laminae membranaceo-chartaceae vel chartaceae, ovatae ellipticae, c. 10.5~17 cm longae et 4~8.5 cm latae, apice acuminatae, basi late cuneatae vel acutae interdum inaequilaterales, undulato-denticulatae, supra glabrae, cystolithis densis albis lineolatis, subtus ad costas nervosque pubescentes, nervis lateralibus utrinsecus 6~7 cum costis subtus deplanatis; petioli (1~) 4~4.5 cm longi, pubescentes. Infructescencia spicata, 2.5~11 cm longa, unilateralis, axillaris; pedunculus 2~4 mm longus, cum rhachidi pubescens; bracteae 4-fariae, seriebus 2 internis fertilibus, steriles ellipticae usque obovato-ellipticae, (6~) 10~12 mm longae, (3~) 4~5 mm latae, dorso subglabrae, cystolithis, parce fere inconspicue ciliolatae, apice paulo obtusae, marginibus viridulo-scariosis c. 0.5 mm latis; fertiles obovato-ellipticae c. 12 mm longae et 5 mm latae, apice paulo obtusae cum bracteolis extus margineque parce puberulae; bracteolae fertilibus conformi, 7 mm longae, 3 mm latae, scariosae, apice obtusae; calyx persistens aequaliter fere ad basin 5-partitus, segmentis subulatis 6~9 mm longis scariosis parce ciliolatis; corolla non visa, Capsula immatura c. 10 mm longa, extus pubescens, 4-seminifera; semina compressa, verrucosa.

Guangxi (广西); Longzhou (龙州), Daqingshan (大青山), in valley, in forest, 1975. 04. 20, D. Fang and X. X. Chen (方鼎、陈秀香) 76173 (holotype, GXMI).

草本, 高约 0.5 m, 叶薄纸质至纸质, 卵形或椭圆形, 长约 10.5~17 cm, 宽 4~8.5 cm, 边有波状浅齿, 下面在脉上被短柔毛, 侧脉每边 6~7 条; 叶柄长 (1~) 4~4.5 cm, 果序穗状, 腋生、长 2.5~11 cm, 偏于一侧; 苞片 4 列, 不育苞片椭圆形至倒卵形椭圆形, 长 (6~) 10~12 mm, 能育苞片倒卵状椭圆形, 长约 12 mm, 均疏被几乎不明显的小缘毛; 小苞片和能育苞片同形; 宿存的萼裂片钻状, 长 6~9 mm, 花冠未见。未成熟的蒴果长约 10 mm, 外被短柔毛。

接近云南孩儿草 *R. yunnanensis* Lo, 但那种叶片侧脉每边 10~12 条, 叶柄长 1.5~2 cm, 不育苞片卵形, 能育苞片长椭圆形, 小苞片长椭圆形, 蓇果被粉状绒毛。

15. 酸床属 *Justicia* Linn. s. l.

分种检索表

1. 萼5裂。
 2. 花腋生或为腋生、少花、稠密的聚伞花序。
 3. 叶小，阔卵形至阔椭圆形，长0.5~1 cm 黄杨叶酸床 *J. buxifolia* Lo et D. Fang
 3. 叶较大，长在3 cm以上。
 4. 叶线状披针形至线状狭长圆形，长约为宽的4倍。 柳叶酸床 *J. salicifolia* T. Anders.
 4. 叶椭圆形、椭圆状卵形或有时近长圆形，长约为宽的2~2.5倍。
 5. 萼被柔毛；叶纸质 西南杜根藤 *J. quadrifaria* (Nees) T. Anders.
 5. 萼无毛；叶革质 广西酸床 *J. kwangsiensis* (Lo) Lo
 2. 花组成穗状花序或复穗状花序。
 6. 苞片叶状或近叶状，明显比萼长。
 7. 花序间断；花黄色 黄花酸床 *J. pseudospicata* Lo et D. Fang
 7. 花序连续；花非黄色。
 8. 苞片顶端具1~3个骤尖头；叶缘通常有齿 华南酸床 *J. austrosinensis* Lo et D. Fang
 8. 苞片顶端无骤尖头；叶全缘。
 9. 苞片干后上部呈紫色；叶基部常下延 紫苞酸床 *J. latiflora* Hemsl.
 9. 苞片干后不呈紫色；叶基部不下延。
 10. 花序腋生；苞片大，长1.5~2 cm；花冠长2.5 cm. 鸭嘴花 *J. adhatoda* Linn.
 10. 花序顶生；苞片较小，长通常不超过1 cm。
 11. 叶披针形或狭披针形 白花酸床 *J. amherstia* Bennet
 11. 叶椭圆形或卵状椭圆形。
 12. 花较小，花冠长约1 cm 华南酸床 *J. austrosinensis* Lo et D. Fang
 12. 花较大，花冠长1.5~1.6 cm 大驳骨 *J. ventricosa* Hook.
 6. 苞片较小，通常比萼短。
 13. 茎短；叶常排成莲座状 桂南酸床 *J. austroguangxiensis* Lo et D. Fang
 13. 茎延长；叶疏生，绝不排成莲座状。
 14. 叶常单生于苞片腋中。
 15. 叶基部浅心形，有时近截平 连山酸床 *J. lianshanica* (Lo) Lo
 15. 叶基部不为浅心形或截平。
 16. 萼裂片椭圆形，顶端钝 钝萼酸床 *J. amblyosepala* D. Fang et Lo
 16. 萼裂片狭三角形至披针形，顶端尖。
 17. 萼裂片内缘密被微绒毛；花较大，花冠长20~22 mm；茎有四棱。
 - 棱茎酸床 *J. acutangula* Lo et D. Fang
 17. 萼裂片内缘无毛；花较小，花冠长不超过15 mm；茎无棱。
 18. 叶卵形或椭圆状卵形，宽约3~10.5 cm 龙州酸床 *J. vasculosa* Nees
 18. 叶狭椭圆形，宽约1~5 cm 那坡酸床 *J. kampotiana* R. Ben.

14. 花常数朵聚生于苞片腋中。
19. 叶基部心形或多少耳形。
20. 叶有长柄, 基部心形, 稀圆形, 不苞茎 心叶爵床 *J. cardiophylla* D Fang et Lo
20. 叶无柄, 基部多少耳形, 略抱茎。
21. 叶干后背面不为锈色; 茎干后非暗紫色; 穗状花序长约 7~14 cm
琴叶爵床 *J. panduriformis* R. Ben.
21. 叶干后背面为锈色; 茎干后暗紫色; 穗状花序长约 1.5~5 cm
锈背爵床 *J. ferruginea* Lo et D. Fang
19. 叶基部不为心形或耳形。
22. 叶狭披针形或披针状线形 小驳骨 *J. gendarussa* Burm. f.
22. 叶多少卵形。
23. 花无梗; 萼裂片长约 2~3 mm 南岭爵床 *J. leptostachya* Hemsl.
23. 花序下部的花有梗; 萼裂片长约 5 mm 大明爵床 *J. damingensis* (Lo) Lo
1. 萼 4 裂。
24. 叶椭圆形或长圆状椭圆形; 茎下部匍匐, 节上生根 爵床 *J. procumbens* Linn.
24. 叶线形或披针状线形; 茎直立 两广线叶爵床 *J. linearifolia* (Brem.) Lo ssp. *liangkwangensis* (Lo) Lo
- 15. 1 黄杨叶爵床 新种**
- Justicia buxifolia* Lo et D. Fang, sp. nov.
- Affinis *J. kwangsiensis* (Lo) Lo, quae differt foliorum laminis usque ad 9 cm longis apice saepe acuminatis interdum breviter caudatis nervis lateralibus conspicuis.
- Suffrutex; caulis cum ramis pallide xerampelinus, glaber vel subglaber; ramus vetustus subteres juventute obtuse quadrangulus, nodis tumidulis. Foliorum lamina crasse coriacea, lato-ovata vel lato-elliptica, 5~10 mm longa, apice basique obtuso-rotunda, integra, in secco brunneola, rugosa, utrinque glabra subnitida, costa robusta, nervis lateralibus obscuris; petiolus brevissimus. Flores fasciculati, axillares; bractea rotunda 1~3.5 mm diam., glabra, stipite longiore; calyx circ. 5~6 mm longus, fere ad basin 5-partitus, lobis lanceolato-linearibus acuminatis margine subscariosis; corolla circ. 8 mm longa, tubus et limbus subaequilongus, labio supero longe triangulari erecto, labio infero patentii rugula; stamna 2, exserta, antheris bilocularibus, thecis inaequalitis oblique superpositis, inferiore basi albo-calcarata; ovarium utroque loculo ovulis 2. Capsula non visa.

Guangxi (广西): Fuzhong (富钟), Hongqi (红旗), Laomushan (老木山), 1959. 09. 26, Li Zhongti (李中提) 603953 (type, IBSC).

亚灌木; 茎、枝淡红褐色; 嫩枝有 4 钝角。叶厚革质, 阔卵形至阔椭圆形, 长 0.5~1 cm, 两端钝圆, 全缘, 无毛, 侧脉隐没不现。花数朵腋生; 苞片近圆形, 直径 1~3.5 mm, 无毛; 萼长约 5~6 mm, 5 裂, 裂片披针状线形; 花冠长约 8 mm, 冠管与冠檐近等长, 上唇长三角形, 下唇有喉凸; 雄蕊 2, 花药较低一室有距。

新种的主要特点是叶小, 无毛, 顶端钝圆, 侧脉隐没不现。

15. 2 广西爵床 广西赛爵床(植物分类学报)

Justicia kwangsiensis (Lo) Lo, comb. nov.

Calophanoides kwangsiensis Lo in *Acta Phytotax. Sin.* 17(4): 86, photo. 1. 1979.

Guangxi (广西); Tian'e (天峨), C. Wang (黄志) 63264 (type, IBSC).

15.3 黄花爵床 新种

Justicia pseudospicata Lo et D. Fang, sp. nov.

Ex affinitate *J. balansae* Lindau, quae bracteis 7~8 mm longis et 4.5 mm latis, bracteolis 6 mm longis, calycis lobis 5 mm longis, corolla alba distinguitur.

Herba perennis circ. 30 cm longa; caulis ramosus, infra medium repens; rami ramulique quadrangulares, 2-sulcati et in sulcis pubescentes. Foliorum lamina membranaceo-papyracea, ovata, (0.8~) 1.3~6.5 cm longa, (0.4~) 1~4 cm lata, apice acuta vel obtusa, basi cuspidata rotundata, margine subundulata, in sicco viridi-canescens, supra omnino et subtus tantum secus nervos parce pilosula vel glabra, supra cystolithis albis lineolatis, nervis lateralibus utrinsecus circ. 4~5 gracilibus subinconspicuis; petiolus 3~13 mm longus, pubescens. Inflorescentia ad ramos terminalis raro in axillis foliorum supremorum orta, 1.5~3 cm longa, spicata, interrupta, simplex; pedunculus 1~2.5 cm longus rhachisque 2-fariam pubescens; bractea late obovata, interdum rotunda vel ovata, 3~5 mm longa, 2~4 mm lata, apice cuspidata, extus parce glanduloso-puberula, 1-flora, cum lobis calycis utrinque margineque parce puberula; bracteola anguste triangularis 2 mm longa, ciliolata; calyx fere ad basin 5-partitus, lobis bracteolis conformibus 2~3 mm longis; corolla luteola, intus purpureo-maculata, 12~14 mm longa, circ. 4 mm in diam., extus pubescens, labio supero erecto triangulari vel late triangulari 4~5.5 mm longo 5~7 mm lato apice emarginato, infero rugulo 3-lobato, lobis triangularibus circ. 1~2 mm longis, medio lateralibus latiore; stamna 2, filamentis glabris 2.5~3 mm longis, loculis 1.5 mm longis inaequialitis, inferiore basi calcarato; ovarium glabrum, utroque loculo ovulis 2, stylus 5~8 mm longus, fere glaber, apice obtusus. Capsula ignota.

Guangxi (广西); Longlin (隆林), Wuchong (乌冲), 1700 m alt., flowers yellow, C. F. Liang and T. L. Wu (梁畴芬和吴德邻) 32358 (IBSC); Debao (德保), Huanglianshan (黄连山), on limestone hill, in forest, 1550 m alt., 1977. 05. 12, D. Fang et al. (方鼎等) 32327 (type, GXMI).

草本，长约 30 cm；茎中部以下匍匐生根。叶卵形，长 (0.8~) 1.3~6.5 cm，宽 (0.4~) 1~4 cm，上面疏生柔毛，侧脉每边约 4~5 条，不很明显。穗状花序在枝上顶生，稀在最上部叶腋，长 1.5~3 cm，间断；苞片阔倒卵形，有时近圆形或卵形，长 3~5 mm，宽 2~4 mm；小苞片长 2 mm；萼 5 裂，裂片长 2~3 mm；花冠淡黄色，长 12~14 mm，外被短柔毛，上唇长 4~5.5 mm，微缺，下唇有喉凸，3 浅裂，中裂片比侧裂片较宽；雄蕊 2，花药低的一室有距。

新种与 *J. balansae* Lindau 相似，后者的苞片较大，长 7~8 mm，宽 4.5 mm；小苞片长 6 mm；萼裂片长 5 mm；花冠白色，较短。

15.4 华南爵床 新种

Justicia austrosinensis Lo et D. Fang, sp. nov.

J. latiflorae Hemsl. affinis, quae nervis lateralibus utrinsecus circ. 7~10, bracteis ovatis vel ellipticis prope apicem in sicco saepe purpuratis vel atro-purpuratis, corolla pallide rubra vel purpurella circ. 19~21 mm longa recedit.

Herba perennis saepe 40~70 cm alta; caulis inferne saepe repens cum ramis tetragonos, recto-quadrangularis et in sulcis crispo-pubescentes. Foliorum lamina submembranacea vel papyracea, ovata, late ovata vel subelliptica, raro oblongo-lanceolata, saepe 5~10 cm longa (interdum usque ad

15 cm), apice acuta, basi late cuneata plus minusve decurrentes, margine grosse dentata vel integra, in sicco saepe viridiflava, supra sparsim hirsutula, subtus secus costam nervosque hirsutula, nervis lateralibus utrinsecus circ. 5; petiolus gracilior, 0.5~2 cm vel ultra (raro 5.5 cm) longus. Spica axillaris et terminalis, densiflora vel interdum interrupta, saepe 3~9 cm raro usque ad 15 cm longa; pedunculus 1~3 cm longus, recto-bisulcatus et in sulcis pubescens; bractea flabellata interdum late ovata, circ. 5~7 mm longa et 6~9 mm lata, apice 1-vel 3-cuspidata interdum rotunda, basi constricta, longe ciliata, saepe 2~1-flora; bracteola subulata, 2~3 mm longa; calyx fere ad basin 5-partitus, lobis subulatis, 3.5~4 mm longis; corolla viridiflava, circ. 10 mm longa, extus pubescens, labio supero suberecto ovato-triangulari apice emarginato, labio infero patentè trilobato inferne rugiformi-rugulo; stamina 2 subexserta, antheris 2-locularibus, thecis oblique superpositis inferiore basi calcarata. Capsula clavata, circ. 12 mm longa, inferne solida, extus pubescens, 4-seminifera.

Guangxi (广西): Longsheng (龙胜), Jiang Bensheng et al. (蒋本生等) 4207, Qin Haofu et al. (覃浩富等) 700670, Guangfu Exped. (广福队) 740; Dayao shan (大瑶山), Wang Zhenru (汪振儒) 5193, Qin Haofu 700284, S. S. Sin (辛树帜) 1730, 20465, 21659, 22340, 23358; Jinxiu (金秀), Jinxiu Exped. (金秀队) 5-2-29 (GXMI); Hengxian (横县), Qin Dehai and Zhou Shangzhuang (覃德海和周尚壮) 71331 (GXMI); Napo (那坡), 1250 m alt., D. Fang and Qin Dehai (方鼎和覃德海) 79658 (GXMI).

Guangdong(广东): Heping (和平), Zhang Guicai et al. (张桂才等) 268; Gaoyao (高要), Shi Guoliang (石国良) 13097; Meixian (梅县), W. T. Tsang (曾怀德) 21502; Dapu (大埔), Li Xuegen (李学根) 202750, Deng Liang (邓良) 5366; Shixing (始兴), Deng Liang 6882; Nanxiong (南雄), H. S. Lo (罗献瑞) s. n.; Yingde (英德), C. Huang (黄成) 163504; Ruyuan (乳源), Liu Yingguang (刘瑛光) 658, 粤 73-896; Lechang (乐昌), H. S. Lo 1188, C. Huang 163188; Lianxian (连县), Nanling Exped. (南岭队) 216, P. C. Tam (谭沛祥) 60153; Lianshan (连山), P. C. Tam 58168; Liannan (连南), P. C. Tam (谭沛祥) 59235 (type, IBSC).

Jiangxi (江西): Quannan (全南), Liu Xinqi (刘心祁) 4084.

Guizhou (贵州): Anlong (安龙), Guizhou Exped. (贵州队) 2962, 3318.

上引标本, 除注明的以外, 余均藏于IBSC。

草本, 高通常 40~70 cm. 叶卵形、阔卵形或近椭圆形, 较少长圆状披针形, 长通常 5~10 (~15) cm, 有粗齿或全缘, 上面散生硬毛, 下面中脉和侧脉上被硬毛; 侧脉每边约 5 条。穗状花序腋生和顶生, 密花或有时间断; 苞片扇形, 有时阔卵形, 长约 5~7 mm, 宽约 6~9 mm, 顶端有 1 或 3 个短尖头, 有时圆, 每苞内常有 2~1 花; 萼 5 裂, 裂片长 3.5~4 mm; 花冠绿黄色, 长约 10 mm, 外被柔毛, 上唇微缺, 下唇 3 裂, 有喉凸; 雄蕊 2, 花药较低一室有距。

新种近紫苞爵床 *J. latiflora* Hemsl., 但那种侧脉每边约 7~10 条; 苞片卵形或椭圆形, 近顶端干时通常紫色或暗紫色; 花冠淡红色或紫红色, 长约 19~21 mm.

15.5 紫苞爵床

Justicia latiflora Hemsl. in Journ. Linn. Soc. Bot. 26: 245. 1890.

广西: 田林, 张肇萼 11092 (IBSC).

贵州: 安龙, 蒋英 9347 (IBSC); 望谟, 贵州队 0732 (IBSC).

分布: 湖北, 广西和贵州新记录.

15.6 白花爵床

Justicia amherstia Bennet in Indian Journ. Forest. 1 (4): 305. 1978. ——*J. fragilis* Wall. ex Clarke in Hook. f., Fl. Brit. Ind. 4: 528. 1885, auct. non Dennst. 1818; R. Ben. in Lecomte, Fl. Gén. Indo-Chine 4: 742. 1935.

广西：崇左城郊，坝子，左江边，海拔200 m，常见，胡志浩78328 (NAS)。

分布：缅甸南部，老挝和越南北部。我国（广西）新记录。

15.7 桂南爵床 新种

Justicia austroguangxiensis Lo et D. Fang, sp. nov.

15.7a 桂南爵床(原变型)

Justicia austroguangxiensis Lo et D. Fang f. *austroguangxiensis*

Similis *J. longulae* R. Ben., quae foliis non rosulatis, laminis lanceolatis apice acuminatis basi acutis, corolla albo-violacea differt.

Herba 15~30 cm alta; caulis brevis, interdum lignosus, pauciramifer, nodis densioribus, internodiis 4~7 (raro 15~55) mm longis. Folia saepe congesta ad caulem in rosulata disposita; lamina papyracea vel crasse papyracea, obovata vel obovato-elliptica raro elliptica, (6~) 10~15 (~25) cm longa et (2.5~) 4~7 (~9) cm lata, apice acuta raro obtusa, basi angustata raro breve angustata decurrentis, margine integra, utrinque glabra, supra dense minute papillosa, subtus in sicco plus minusve flavovirens, costa supra impressa, subtus complanata, nervis lateralibus utrinsecus saepe 5~6 (raro usque ad 10) arcuatis supra conspicuis subtus latis et complanatis; petiolus robustus, 1~3 cm longus. Spica saepe prope apicem caulis axillaris, 5~35 cm longa, simplex raro inferne 1~2-ramificans, interrupta; pedunculus 13~43 cm longus, recto-bisulcatus et in sulcis cum rhachidi puberulus; bractea bracteolaque triangularis raro longe triangularis, 1~1.5 (~2) mm longa, extus puberula, circ. 9~1-flora; calyx 1.5~2 mm longus, 5-partitus, lobis subulatis extus puberulis; corolla pallide flavovirens intus aliquot purpureo-maculata, 8~9 mm longa, extus puberula, tubo limboque subaequilongo, labio supero erecto triangulari 3.5~4 mm longo apice emarginato intus e apice ad 3 mm supra basin corollae striis 2 prominulis retrorso-v-formiter purpureis inferne puberulis ornato, labio infero 4~4.5 mm longo revolvibili trilobato, lobis ovatis medio lateralibus latiore apice obtuso; stamina 2, filamentis glabris 3 mm longis, antherae thecis inaequialitis inferiore basi calcarata; stylus 4.5~5 mm longus, inferne puberulus. Capsula clavata, 13~15 mm longa, extus puberula, infra medium in stipitem angustata, solida; semina 4, tuberculata.

Guangxi (广西): Longzhou (龙州), in dense forest, on lime rocks, rare, Chun, S. H. (陈少卿) 13577 (IBSC); ibid., 350 m alt., 1990. 04. 21, D. Fang and Yen Kechien (方鼎和严克俭) 76402 (type, GXMI); Daxin (大新), Wang Jianjun (王鉴钧) 6522 (GXMI); Ningming (宁明), Chen Zhenhong (陈振宏) 2~496 (GXMI); Chongzuo (崇左), Qin Dehai (覃德海) 23241 (GXMI); Long'an (隆安), X. X. Chen and Huang Yiping (陈秀香和黄一平) 2~274 (GXMI); Fusui (扶绥), GXMI nos. 36478.

草本，高15~30 cm；茎短，节很密。叶常密聚于茎上成莲座状排列，倒卵形或倒卵状椭圆形，稀椭圆形，长(6~) 10~15 (~25) cm，宽(2.5~) 4~7 (~9) cm，顶端短尖，基部渐狭或短渐狭，下延，全缘，无毛。穗状花序常近茎梢腋生，长5~35 cm，间断；苞片和小苞片三角形，稀长三角形，长1~1.5 (~2) mm；萼长1.5~2 mm，5裂，裂片钻形；花冠淡黄绿色，长8~9 mm，外被

微毛, 上唇微缺, 下唇3浅裂, 中裂片宽于侧裂片; 雄蕊2, 花药较低一室有距。

同 *J. longula* R. Ben. 的区别在于后者叶非莲座状排列, 披针形, 顶端渐尖, 基部短尖; 花冠白紫色。

15. 7b 白脉爵床 新变型

Justicia austroguangxiensis Lo et D. Fang f. *albinervia* D. Fang et Lo, f. nov.

A f. *austroguangxiensi* differt foliorum costis cum nervis lateralibus in vivo supra albescentibus in secco utrinque plus minusve purpurascens.

Guangxi (广西): Ningming (宁明), Tingliang (亭亮), on limestone hillslope, in dense forest, alt. 300 m, 1967. 09. 20, D. Fang and Huang Zengren (方鼎和黄增任) 35985 (holotype, GXMI).

本变型叶的中脉和侧脉活时上面变白色, 干时两面多少变紫色, 而与原变型不同。

为一庭园绿化植物, 南宁和桂林已有栽培。

15. 8 连山爵床 广西野靛棵(植物研究)

Justicia lianshanica (Lo) Lo, comb. nov.

Mananthes lianshanica Lo in Bull. Bot. Res. (Harbin) 1(4): 105, photo. 1. 1981.

Guangdong (广东): Lianshan (连山), P. C. Tam (谭沛祥) 58637 (type, IBSC).

广西: 苍梧, 铜锣山, 陈少卿 10055 (IBSC); 金秀, 大瑶山队 11773 (IBSC)。

分布: 广东。广西新记录。

15. 9 钝萼爵床 新种

Justicia amblyosepala D. Fang et Lo, sp. nov.

Affinis *J. decumbenti* Craib, quae foliis oblongis, bracteis bracteolisque linearibus, calycis segmentis linearis-lanceolatis apice acutis, corolla alba valde diversa.

Frutex parvus 30~50 cm altus; rami teretes, glabri, cystolithis lineolatis et granulatis. Folia in paribus subaequalia, petiolata; laminae papyraceae, ovatae vel ellipticae, 9~17 cm longae et 4.5~8 cm latae, glabrae, apice saepe acutae, basi attenuatae vel rotundae, subintegrae, supra cystolithis densis albidis granulatis interdum lineolatis vestitae, nervis lateralibus utrinque 5~7 et costis utrinque prominulis; petioli 0.8~3 cm longi, cystolithis lineolatis et granulatis. Inflorescentia terminalis et axillaris, 2~23 cm longa, spicata, interrupta, simplex vel ramifera, rhachidi sulcata, in sulcis puberula; pedunculus 1.5~5 cm longus; bracteae oppositae, triangulares raro anguste triangulares, 1.5~2 mm longae, subglabrae, 1-florae; bracteolae anguste triangulares, 2 mm longae, ciliolatae; calyx fere ad basin 5-partitus, segmentis oblongo-ellipticis 3 mm longis ciliolatis apice obtusis utrinque sessili-glandulosis et sparse tomentulosis vel subglabris; corolla flava, 13 mm longa, extus retrorso-puberula, e basi ad faucem gradatim et aliquantum dilatata, labio supero erecto ovato-triangulari 5 mm longo apice obtuso, infero 3-lobato, lobis c. 1.5 mm longis apice rotundis; stamina 2, in fauce corollae affixa, filamentis glabris 4 mm longis, thecis ellipticis vix 1.5 mm longis inaequialitis inferiore basi calcarata; stylus 8~11 mm longus, sparse puberulus. Capsula claviformis, 15 mm longa, inferne solida, extus pubescentia; semina 4, verrucosa.

Guangxi (广西): Napo (那坡), Bohe (百合), 1977. 04. 15, Wang Zhengang et al. (王振刚等) 3-5118 (holotype, GXMI); ibid., Yaohuangshan (妖皇山), on limestone hillslope, Huang Deyun et al. (黄德运等) 3-5065 (GXMI).

小灌木，30~50 cm。叶卵形至椭圆形，长9~17 cm，宽4.5~8 cm，侧脉每边5~7条。穗状花序顶生和腋生，长2~23 cm，间断；苞片三角形，稀狭三角形，长1.5~2 mm，每苞有1花；小苞片狭三角形，长2 mm；萼5裂，裂片长圆状椭圆形，长3 mm，先端钝，疏被腺体和微绒毛，或近无毛，边被小缘毛；花冠淡黄色，长13 mm，外被倒向微毛，上唇长5 mm，钝，下唇3浅裂，裂片长约1.5 mm；雄蕊2，药室低的一枚有距；花柱疏被微毛。

此种接近泰国的 *J. decumbens* Craib，但那种叶长圆形，苞片和小苞片线形，萼裂片线状披针形，先端急尖，花冠白色，极易区别。

15.10 楼茎爵床 新种

Justicia acutangula Lo et D. Fang, sp. nov.

Proxima *J. patentiflorae* Hemsl., sed caulis acute quadrangularibus, nervis lateralibus utrinsecus c. 13~14, calyce c. 5 mm longo, corolla 20~22 mm longa labiis superis et inferis aequilongis, stylo c. 20 mm longo distincta.

Herba 0.5~1 m alta; caulis ramusque ad nodos pubescens, internodia interdum turgida, acute quadrangularia raro alis anguste usque ad 1 mm latis, 4-sulcata, juventute in sulcis pubescentia. Folia opposita, subaequalia, petiolis 2~10 mm longis munita; lamina papyracea, elliptica raro lato-ovata, 8.5~27 cm longa, 5~12.5 cm lata, apice acuta, basi attenuata interdum decurrentis vel rotunda, subintegra, supra cystolithis densis minutis subgranulatis, utrinque ad costam, nervos, venulas, margines, petiolos pubescens, nervis lateralibus utrinsecus c. 13~14 cum costa subtus prominulis, venulis transversalibus. Inflorescentia 3.5~14 cm longa, spicata, interrupta, singula vel bini-trinae ad apicem ramorum et in axillis foliorum superiorum disposita; pedunculus 2~9.5 cm longus rhachisque 2-fariam pubescens; bracteae oppositae, triangulatae, 2~3 mm longae, 1-florae; bracteolae ovatae, c. 2.5 mm longae bracteaeque extus fere glabrae margine ciliolatae; calyx c. 5 mm longus, subaequaliter 5-partitus, segmentis linearis-triangulatis extus glabris intus juxta marginem dense tomentellis; corolla flavidovirens, 20~22 mm longa, extus pubescens, tubo c. 11 mm longo e basi ad faucem gradatim et aliquantum dilatato, labio supero erecto lato-ovato 9 mm longo apice obtuso intuse apice ad 3 mm supra basin tubi striis 2 prominulis lineiformibus ornato, labio infero supero aequilongo dense purpureo-punctato rugulo 3-lobato, lobis c. 2 mm longis, medio latiore apice rotundo; stamna 2, in fauce corollae inserta, filamentis glabris 7.5 mm longis, loculis 2.5 mm longis inferiore basi minime calcarato; ovarium glabrum, in quoque loculo 2-ovulatum, stylus c. 20 mm longus, inferne parce pubescens. Capsula claviformis, 20 mm longa, inferne solida; semina non visa.

Guangxi (广西): Mashan (马山), Guling (古零), on limestone hill, in forest, alt. 520 m, 1984. 12. 07, Qin Dehai and Li Rongkui (覃德海和李荣葵) 31353 (holotype, GXMI); Xincheng (忻城), Beigeng (北更), Lan Xiang (蓝香) 234 (fr., GXMI).

草本，高达1 m；茎锐方柱形，稀具宽达1 mm的翅，有4沟。叶椭圆形，稀阔卵形，长8.5~27 cm，宽5~12.5 cm，侧脉每边约13~14条。穗状花序长3.5~14 cm，间断，生于枝端和上部叶腋；苞片三角形，长2~3 mm，每苞有1花；小苞片长约2.5 mm；萼长约5 mm，5裂，裂片内缘密被微绒毛；花冠淡绿黄色，长20~22 mm，外被微毛，上唇长9 mm，钝，下唇与上唇等长，3浅裂，裂片长约2 mm，中裂片较阔；雄蕊2，药室低的一枚有1极小的距；花柱长约20 mm。

本种萼裂片内缘被微绒毛，而与云南产的野靛棵 *J. patentiflora* Hemsl. 亲缘关系极近，但茎锐方

柱形; 侧脉每边约 13~14 条; 萼长约 5 mm; 花冠长 20~22 mm, 上唇与下唇等长; 花柱长约 20 mm.

15.11 那坡爵床

Justicia kampotiana R. Ben. in Not. Syst. Paris 5 (2): 118. 1936 et in Lecomte, Fl. Gén. Indo-Chine 4: 741. 1935.

广西: 那坡, 平孟, 石山林中, 海拔约 540 m, 1976. 04.16, 方鼎、刘达雨 22286 (GXMI).

分布: 柬埔寨。我国(广西)新记录。

15.12 心叶爵床 新种

Justicia cardiophylla D. Fang et Lo, sp. nov.

Species *J. glomerulatae* R. Ben. affinis, quae foliis ovato-lanceolatis vel lanceolatis basi angustatis et repente rotundatis aliquando cordiformibus, bracteis linearibus 2.5~3 mm longis 1~3-floris, calycis segmentis 2.5~3 mm longis differt.

Herba c. 20~50 cm alta; caulis teres, glaber, interdum flexuosus et ramifer, erectus vel inferne repens, basi interdum lignescens. Folia super caulem opposita, subaequalia, glabra, petiolata; laminae papyraceae vel tenuiter papyraceae, cordatae raro lato-ovatae, 3.5~12 cm longae, 2~9.2 cm latae, apice acutae raro breviter acuminatae, basi cordatae vel cordatulae pauc'e rotundae, subintegrae, supra cystolithis densis minutis granulatis, nervis lateralibus utrinsecus 5~6 costisque subtus prominulis; petioli glabri raro aliquot glandulosi-puberuli, 2~10 cm longi, superne breviores inferne longiores suffulti. Inflorescentia terminalis, spicata, continua, 3.5~11 cm longa, simplex raro basi 1-ramifera, rhachidi dense pubescenti; pedunculus 7.5~20.5 cm longus, 2-sulcatus, in sulcis plus minusve pubescens; bracteae oppositae, triangulatae, 1.5~2 mm longae, 1 mm latae, c. 6~1-florae, cum bracteolis segmentisque calycis extus et margine puberulæ; bracteolæ subtriangulatae, 1.5 mm longae; calyx fere ad basin 5-partitus, segmentis angusto-triangulatis 1.5 mm longis basi 0.6 mm latis; corolla flavovirens, 7 mm longa, 1.5 mm diam., extus pubescens, labio supero erecto subtriangulato 3.5 mm longo apice obtuso intus e apice ad 2.5 mm supra basin tubi striis 2 prominulis lineiformibus puberulis ornato, labio infero 3-lobato, lobis c. 1 mm longis medio apice rotundo; stamna 2, in fauce corollæ affixa, filamentis 2 mm longis glabris, thecis linearibus c. 1 mm longis inaequialitis inferiore basi calcarata; discus c. 0.5 mm altus; stylus 3.5 mm longus, inferne sparse puberulus. Capsula claviformis, 15 mm longa, pubescens, inferne solida, 4-seminifera; semina compressa, verrucosa.

Guangxi (广西): Daxin (大新), 1977. 04, Daxin Exped. (大新队) s. n. (herb. nos. 48018, holotype, GXMI); Tiandeng (天等), Songshan (松山), on limestone hill, in forest, alt. 600 m, Luo Jinyu and Zhao Guangshan (罗金裕和赵光山) 33313 (GXMI).

草本, 高约 20~50 cm. 叶心形, 稀阔卵形, 长 3.5~12 cm, 宽 2~9.2 cm, 基部多少心形, 少有近圆形, 侧脉每边 5~6 条。穗状花序顶生, 连续, 长 3.5~11 cm; 苞片三角形, 长 1.5~2 mm, 每苞约有 6~1 花; 小苞片近三角形, 长 1.5 mm; 萼 5 裂, 裂片狭三角形, 长 1.5 mm; 花冠绿黄色, 长 7 mm, 外被短柔毛, 上唇长 3.5 mm, 钝, 下唇 3 浅裂, 裂片长约 1 mm; 雄蕊 2, 药室低的一枚有距; 花柱下部疏被微毛。

近似 *J. glomerulata* R. Ben., 但那种叶为卵状披针形或披针形, 基部变狭而骤圆, 有时心形; 苞片线形, 长 2.5~3 mm, 具 1~3 花; 萼裂片长 2.5~3 mm, 易于区别。

15.13 琴叶爵床

Justicia panduriformis R. Ben. in Not. Syst. Paris 5(2): 116. 1936 et in Lecomte, Fl. Gén. Indo-Chine 4: 736. 1935.

广西：龙州，武德，石山林中，1978. 09.12，方鼎、沙文兰 76199 (GXMI)。

分布：越南北部。我国（广西）新记录。

15.14 锈背爵床 新种

Justicia ferruginea Lo et D. Fang, sp. nov.

Similis *J. panduriformi* R. Ben., quae foliis majoribus 15~26 cm longis 7.5~15 cm latis subtus sicco haud ferrugineis nervis lateralibus utrinsecus 8~10, spicis c. 7~14 cm longis, pedunculis c. 15 cm longis differt.

Herba ultra 20 cm alta; caulis teres, atropurpureus, sparsim tuberculatus; rami juventute quadrangulares, sulcati, glabri. Folia opposita, subaequalia, sessilia; lamina papyracea, oblanceolata paucem lanceolata, 8~17 cm longa, 2.5~6.5 cm lata, apice obtusa (?), basi auriculata paulo amplexicaulis, integra, utrinque glabra et cystolithis densis minutis granulatis, subitus in sicco ferruginescens, nervis lateralibus utrinsecus c. 10~13 cum costa subtus prominulis. Inflorescentia 1.5~5 cm longa, spicata, interrupta, 2~raro 4-furcata, axillaris, rhachidi 2-fariam puberula; pedunculus 1.5~3.5 cm longus, glaber; bracteae oppositae, 5~1-florae, bracteolaeque triangulares, vix 1 mm longae, subglabrae; calyx subaequaliter 5-sfidus, segmentis angusto-triangularibus 1~1.5 mm longis sub-glabis; corolla alba, 6.5~7 mm longa, extus puberula, tubus in medio c. 1.5 mm diam., labio supero erecto ovato-triangulari 3 mm longo apice obtuso intus capite ad 1.5 mm supra basin tubi striis 2 prominulis lineiformibus ornato, labio infero 3-lobato, lobis c. 1 mm longis apice rotundis; stamina 2, in sauce corollae inserta, filamentis c. 2 mm longis glabris, thecis c. 1 mm longis inaequialitis inferiore basi calcarata; ovarium glabrum, in quoque loculo biovulatum, stylo c. 4.5 mm longo fere glabro. Capsula non visa.

Guangxi (广西): Longjin (龙津), Jinlong (金龙), Banbi (板闭), on limestone hill, in forest, 1958. 10. 05, Li Huanqi (黎焕琦) 40085 (holotype, IBK).

草本，高逾 20 cm；茎暗紫色。叶无柄，倒披针形，少有披针形，长 8~17 cm，宽 2.5~6.5 cm，基部耳形，略抱茎，干时下面变锈色，侧脉每边约 10~13 条。穗状花序长 1.5~5 cm，间断，腋生；苞片每枚有 5~1 花，和小苞片均为三角形，长不足 1 mm；萼 5 裂，裂片狭三角形，长 1~1.5 mm；花冠白色，长 6.5~7 mm，外被微毛，上唇长 3 mm，钝，下唇 3 浅裂，裂片长约 1 mm；雄蕊 2，药室低的一枚有距；子房无毛，花柱几乎无毛。

这个种接近琴叶爵床 *J. panduriformis* R. Ben.，但那种叶大，长 15~26 cm，宽 7.5~15 cm，下面干时不为锈色，侧脉每边 8~10 条；穗状花序长约 7~14 cm；总花梗长约 15 cm。

15.15 大明爵床 大明野靛棵(植物研究)

Justicia damingensis (Lo) Lo, comb. nov.

Mananthes damingensis Lo in Bull. Bot. Res. (Harbin) 1(4): 106, photo. 2. 1981.

Guangxi (广西): Damingshan (大明山), S. S. Sin (辛树帜) 25189 (type, IBSC).

15.16 线叶爵床(植物分类学报)

Justicia linearifolia (Brem.) Lo, comb. nov.

Rostellularia linearifolia Brem. in Proc. K. Nederl. Akad. Wet., Ser. C, 60: 5. 1957.

15. 16a 线叶爵床(原亚种)

Subsp. *linearifolia*

分布于老挝和泰国; 我国不产。

15. 16b 两广线叶爵床(植物分类学报)

Subsp. *liangkwangensis* (Lo) Lo, comb. nov.

Rostellularia linearifolia Brem. subsp. *liangkwangensis* Lo in Acta Phytotax. Sin. 17(4): 87, photo.

2. 1979.

Guangxi (广西); Nanning (南宁), H. Y. Liang (梁向日) 67184 (type, IBSC).

承广西植物研究所、广西药材公司、广西农业大学、广西药用植物园、广西药科学校、广西民族医药研究所、广西药品检验所和贵州省中医研究所借用部分标本, Dr. B. Hansen 寄赠模式标本照片, 路安民教授在法国拍摄模式标本照片, Dr. D. E. Boufford, Dr. L. E. Skog、王文采院士、覃海宁博士、李振宇教授和韦发南教授在文献方面的帮助, 覃德海先生花粉制片, 特此致谢。