

中国唇形科植物志资料(一)

吳 征 鎰

李錫文 宣淑潔 黃詠琴

(中国科学院植物研究所昆明分所)

MATERIAE AD FLORAM LABIATARUM SINENSIIUM (1)

WU CHENG-YIH

LI HSI-WEN, HSUAN SHWU-JYE, HUANG YONG-CHIN

(Filii Kunmingensis Instituti Botanici Academiae Sinicae)

錐花属——*Gomphostemma* Wall.

1. 三角齿錐花 新种 图版二十九

Gomphostemma deltodon C. Y. Wu, sp. nov. Pl. XXIX

(Sect. *Pogosiphon* Prain Ser. *Hemsleyana* Prain)

Species peraffinis *G. microdonti* Dunn, sed differt caule pilis stellato-tomentosis fulvidis longi- vel brevi-stipitatis dense vestito; bracteis majoribus, ovatis, oblongis ad obovato-lanceolatis; calycibus majoribus, circa 9 mm longis, anguste campanulatis, cum dentibus triangularibus circa 3.2 mm longis 2.6 mm latis.

Herba erecta. Caulis circa 1 m altus, superne obtuse quadrangularis, inconspicue sulcatus, inferne subteres, pilis stellato-tomentosis fulvidis longi- vel brevi-stipitatis dense vestitus. Folia elliptica vel oblonga, 11.5—25 cm longa, 4.7—11 cm lata, apice paulum obliqua, acuta, basi acuta ad obtusa, saepe asymmetrica, praeter basin crenato-serrata vel inconspicue dentata, herbacea, supra in sicco olivacea, stellato-hirtella, subtus pilis stellato-tomentosis griseo-flavis longi- vel brevi-stipitatis sed ad costam nervosque laterales longioribus fulvescentibus dense obtegeta; petioli robusti, 1.8—3 cm longi, eodem indumento quo caulis vestiti, teretes, ventri sulcati. Paniculae spiciformes axillares erectae, cum pedunculis 1—3 cm longis indumento ut caulis vestitis 4.5—9.5 cm longae, e cymis 2—5-paribus brevipedunculatis (pedunculis 1—2 mm longis) 1—2-floris bracteis bracteolisque suffultis compositae; vel cymae 1—4-florae solitaires axillares; bractee ovatae, oblongae ad obovato-lanceolatae, sursum sensim minores, 1.1—1.8 cm longae, 0.45—1 cm latae, margine sparse denticulatae vel subintegrae, eodem indumento quo foliorum vestitae, brevipetiolatae (petiolis 1—2.5 mm longis); bracteolae lineares, 5—8 mm longae. Calyx anguste campanulatus, circa 9 mm longus, 4—4.5 mm latus, conspicue 10-nerviis, extus pilis stellato-velutinis fulvidis dense vestitus, intus in sicco brunnescens, ciliatus, dentibus

triangularibus 3—3.2 mm longis, 2.6—3 mm latis, apice acutis. Corolla purpureo-rubra, 3.5—3.7 mm longa, tubo basi circa 2 mm lato, ad partes $2/3$ subito ampliato, ad faucem 10.5 mm lato; labium superum rotundatum, circa 5 mm latum, inferum circa 12 mm longum et 6 mm latum, trilobatum, lobo medio longissimo obcordato apice emarginato. Stamina corollae labio supero leviter breviora, filamentis complanatis margine membranaceis pubescentibus. Stylus filiformis, superne crassior, sparse stellato-puberulus, apice inaequaliter bifidus. Discus obscure cupuliformis. Ovarium apice fulvide tomentosum, ceterum glabrum. Nuculae ignotae. Floret in Augusto.

Yunnan: Ging-hung (景洪) (Che-li, 车里), 950 m s. m., Aug. 1936, C. W. Wang (王启无) 75545 (Typus HP*); Shiao-mon-young (小勐养), 1100 m s. m., Aug. 1936, C. W. Wang 75664.

本种极近小齿锥花 *G. microdon* Dunn, 但茎密被污黄色具长柄或短柄的星状长绒毛;苞片较大,卵圆形,长圆形至卵圆状披针形;萼较大,长约9毫米,狭钟形,齿三角形,长约3.2毫米,宽约2.6毫米,与之相异。

2. 拟长毛锥花 新种 图版三十

Gomphostemma pseudo-crininum C. Y. Wu, sp. nov. Pl. XXX

(Sect. *Stenostoma* Prain Ser. *Parviflora* Prain)

Species affinis *G. crinito* Wall., sed cymis e basi caulis emittentibus; calycibus pilis stellato-villosis stiptitatis et hispidulis sparse obtectis; bracteis bracteolisque linearibus usque ad fibrosis facile distinguitur.

Frutex erectus. Caulis simplex, 1.2 m altus, superne herbaceus, flexuosus, quadrangularis, profunde sulcatus, dense fulvide stellato-tomentosus, inferne lignescens, rectus, subteres, dense stellato-tomentosus. Folia ovato-oblonga vel oblonga, 13—17 cm longa, 6.5—7 cm lata, acuminata, basi obtusa usque ad rotundata, margine irregulariter grosseque prope basin saepe minus inconspicueque dentata, herbacea, supra in sicco brunneo-olivacea, pilis stellatis hispidulisque intermixtis obtecta, subtus dense stellato-tomentosa, pallida; petioli 2.2—4.5 cm longi, dense stellato-tomentosi, ventri plani dorso convexi. Cymae in sicco castaneae usque ad purpureo-brunnescentes, e basi caulis emittentes, oppositae vel non oppositae, cum pedunculis circa 2—3 cm longae et latae; pedunculi inaequilongi, 3—10 mm longi, sparse stellato-pilosi. Bractee et bracteolae lineares usque ad fibrosae, purpureae (in sicco castaneo-brunnescentes), curvatae, 10—12 (15) mm longae, 0.3—1.5 mm latae, pilis stellato-villosis stipitatis et hispidulis sparse obtectae. Calyx anguste campanulatus, 12—15 mm longus, circa 3 mm in diametro, dentibus triangularibus, apice fibrosis, 7—8 mm longis, eodem indumento quo bractearum vestitus. Corolla flava, 3.5 cm longa, extus puberula, tubo basi 1.3 mm lato, sursum sensim latiore, ad partes $3/4$ subito ampliato incurvoque, ad faucem 7 mm lato; labium superum subrotundatum, 8 mm longum, 6 mm latum, inferum trilobatum, circa 10 mm longum, intus puberulum, lobo medio obcordato, apice emarginato, circa 4 mm longo, 5.5 mm lato, lobis lateralibus

* HP = Herb. Inst. Bot. Acad. Sin., Peking.

subrotundatis circa 2.5 mm latis. Stamina labium superum subaequantia, filamentis complanatis, margine sparse puberulis. Stylus glaber, staminibus subaequilongus, apice inaequaliter bifidus. Discus cupuliformis, paulo obliquus. Nuculae ignotae. Floret in Julio-Augusto.

Kwangsi: Ling-lo (凌乐) (Ling-yun, 凌云), Tsing-lung-shan (青龙山), 1130 m s. m., Aug. 12, 1928, R. C. Ching (秦仁昌) 6851 (Typus HP); ibidem, Lao-yu-tsi-kang (老与之坑), Jul. 19, 1937, S. K. Lau (刘心祈) 28713.

本种近长毛錐花 *G. crinitum* Wall., 但聚繖花序生于茎基部; 萼被疏生的具柄的星状毛及单长硬毛; 苞片及小苞片线形至毛鬚状, 极易区分。

3. 海南錐花 新种 图版三十一

Gomphostemma hainanense C. Y. Wu, sp. nov. Pl. XXXI

(Sect. *Stenostoma* Prain Ser. *Parviflora* Prain)

Species valde affinis *G. oblongo* Wall., sed foliis angustioribus, subtus dense appressequ stellato-tomentosis, venulis reticulatis satis conspicuis differt.

Herba perennis. Caulis circa 50 cm altus, teres, densissime appressequ griseo-stellato-pannosus. Folia anguste lanceolata, 10—16 cm longa, 2.1—3.4 cm lata, apice longe acuminata, basi cuneato-attenuata vel leviter obtusa, margine obscure undulato-dentata, chartacea, supra in sicco obscure olivacea, dense stellato-pubescentia, subtus pallida, dense appressequ stellato-tomentosa, nervis lateralibus ut costa prominentibus, reticulationibus supra satis impressis; petioli 1.5—2.5 cm longi, ventri plani dorso convexi, paulo sulcati, eodem indumento quo foliorum subtus vestiti. Cymae axillares, parvae, 3—4-florae, subsessiles; bracteae ovatae vel oblongo-subulatae, 10—14 mm longae, 4—7 mm latae, integrae vel leviter dentatae, eodem indumento quo foliorum vestitae; bracteolae lineares, circa 9 mm longae, vix 1 mm latae. Calyx anguste campanulatus, circa 8.5 mm longus, 4 mm latus, griseo-stellato-lanatus, dentibus lanceolatis, circa 4.5 mm longis, longe acuminatis. Corolla alba flavidulo tincta, circa 3.8 cm longa, extus puberula, intus glabra, basi tubi circa 1 mm lata, ad partem tertiam ampliata, ad faucem circa 7 mm lata; labium superum rectum, rotundatum, circa 5 mm longum et latum, inferum circa 9 mm longum, lobo medio rotundato circa 3.5 mm lato, lobis lateralibus parvis, circa 2 mm latis margine undulatis. Stamina labio supero breviora vel antica eo longiora, filamentis complanatis, margine transparentibus membranaceisque. Stylus glaber, apice inaequaliter bifidus, labium superum leviter superans. Discus cupuliformis, leviter obliquus. Ovarium albo-granulosum. Nuculae ignotae. Floret in Augusto.

Hainan: Po-ting (保亭), 700 m s. m., Aug. 27, 1935, F. C. How 73517 (Typus HP).

本种与 *G. oblongum* Wall. 十分相近, 但叶较狭, 下面密被平贴星状绒毛, 网脉较粗与之不同。

4. 光泽錐花中间变种 新组合

Gomphostemma lucidum Wall. var. **intermedium** (Craib) C. Y. Wu, comb. nov.

Gomphostemma intermedium Craib in Kew Bull. 1910: 23. 1910.

与光泽锥花 *G. lucidum* Wall. var. *lucidum* 区别在于: 叶倒卵状椭圆形, 上面被细星状毛及混生的单硬毛, 略粗糙, 下面密被灰色或污黄色星状绒毛。

云南: 屏边, 一区, 马尾乡, 900 米, 1953 年 8 月 10 日, 毛品一 2865; 同地, 1934 年 3 月 10 日, 蒋英 13466; 同地, 1000—1300 米, 1934 年 6—7 月, 蔡希陶 60569, 60609, 60796, 60881, 61134, 61275; 同地, 1500 米, 1939 年 10 月 7 日, 王启无 82349。

5. 木锥花 新种 图版三十二

Gomphostemma arbusculum C. Y. Wu, sp. nov. Pl. XXXII

(Sect. *Gomphostemma* Ser. *Lucida* Prain)

Species affinis *G. lucido* Wall., sed ovarii pilis stellatis dense vestitis, filamentis glabris, calycis dentibus latis brevibusque, foliis latoribus, inflorescentiis satis aggregatis floribundisque differt.

Frutex vel herba robusta. Caulis 1—5 m altus, obtuse quadrangularis, paulum quadrisulcatus, densissime fulvideque stellato-pannosus, flexuosus. Folia magna, oblonga vel oblongo-elliptica usque ad ovata, 11.5—26.5 cm longa, 4—11.5 cm lata, acuta ad acuminate, basi acuta vel cuneato-attenuata, supra basin grosse serrata vel crenato-dentata, prope basin integra, herbacea, supra in sicco purpureo-fusca vel olivacea, pilis hispidulis cum pilis stipitatis dichotomis paucis intermixtis sparse vel dense vestita, subtus pallida, dense stellato-puberula, venulis supra sub lente leviter prominentibus; petioli 1—4.5 cm longi, ventri plani dorso convexi, eodem indumento quo caulis vestiti. Cymae subsessiles, multiflorae, aggregatae; bracteae oblongae, 0.9—1.4 cm longae, 3—4 mm latae, supra sparsissime piliferae, subtus eodem indumento quo caulis vestitae; bracteolae lineares, 6—9 mm longae, ad 1.5 mm latae, eodem indumento quo bractearum vestitae. Calyx campanulatus, 9—11 mm longus, 5—6 mm in diametro, tempore fructu paulum auctus dehiscentisque, extus dense fulvideque stellato-pannosus, intus ciliolatus, conspicue 10-nervius, dentatus, dentibus late triangularibus 1—1.5 mm longis circa 3.5 mm latis. Corolla alba vel purpurascens, 2.4—3 cm longa, extus pilis stellato-pannosis densis intus furfuraceis sparsissimis vestita, tubo basi 1.5 mm in diametro, ad medium subito ampliato, ad faucem usque ad 9 mm lato; labium superum rectum, orbiculare, circa 5 mm longum, 7—8 mm latum; labium inferum 8 mm longum, 11 mm latum, trilobatum, lobo medio majore obcordato, lobis lateralibus ovatis. Stamina labium superum aequantia, supra medium corollae tubi inserta, filamentis complanatis, margine membranaceis. Stylus stamina aequans, inferne gracilis, infra apicem compressus crassiorque, sparse stellato-pubescent, apice inaequaliter bifidus. Ovarium dense fulvideque hispidulum. Nuculae 4, omnes maturae, oblongo-triquetrae, castaneae, 4—5 mm longae, 3—3.5 mm latae, ventri angulatae, dorso rotundatae, pilis deciduis vestitae. Floret in Majo. Fructificat in Augusto-Decembri.

Yunnan: Mon-hai (勐海) (Fo-hai, 佛海), 1080 m s.m., Jul. 1963, C. W. Wang (王启无) 74936; Lan-tsang (澜沧), 1800 m s. m., Majo 1936, C. W. Wang 76475 (Typus HP); ibidem, 1800 m s. m.,

Majo 1936, C. W. Wang 76857; Gin-ping (金平), Apr. 6, 1941, T. N. Liou (刘慎谔) 18577; Ging-tung (景东), 1700 m s. m., Oct. 30, 1939, M. K. Li (李鸣岗) 950; ibidem, 2100 m s. m., Dec. 6, 1939, M. K. Li 2256; Gin-ping (金平), 1500 m s. m., Aug. 21, 1951, P. Y. Mao (毛品一) 449; Pu-wen (普文), 1000 m s. m., Apr. 21, 1957, Sino-Russia Expeditio (中苏调查队) 8067; Shiao-mon-young (小勐养), 700—900 m s. m., Apr. 23, 1957, Sino-Russia Expeditio 9473; ibidem, P. Y. Chu (邱炳云) 56765; Lin-tsang (临沧), 1350 m s. m., Aug. 24, 1957, G. S. Shing (辛景三) 358; Shwe-li (瑞丽), 1180 m s. m., Apr. 25, 1961, S. Chow (周敏) 550.

本种与光泽锥花 *G. lucidum* Wall. 相近, 但子房密被星状毛, 花丝无毛, 萼齿宽而短, 叶较宽, 花序极密集多花与之不同。

6. 宽叶锥花 新种 图版三十三

Gomphostemma latifolium C. Y. Wu, sp. nov. Pl. XXXIII

(Sect. *Gomphostemma* Ser. *Lucida* Prain)

Species affinis *G. rugoso* Prain et *G. lucido* Wall., a posteriori nuculis primo pubescentibus, foliis latoribus, rugosis; a priori calycibus circa 10 mm longis bene differt.

Frutex erectus. Caulis (0.6)1—2 m altus, superne obtuse quadrangularis, inferne subteres, dense fulvideque stellato-pannosus. Folia ovata vel ovato-elliptica, (7)20—28 cm longa, (4)9.5—14.5 cm lata, apiculata, basi acuta vel subrotundata, crenato-dentata sed prope basin obscure dentata, herbacea, supra in sicco purpureo-brunnescentia, sparse pubescentia, subtus griseo-flava, dense stellato-tomentosa, venulis supra conspicue impressis; petioli 1.5—5 cm longi, eodem indumento quo caulis vestiti. Cymae subsessiles, aggregatae, multiflorae; bracteae parvae, oblongae, circa 5—7 mm longae, 3—3.5 mm latae; bracteolae lineares, 6—9 mm longae, vix 1 mm latae, ut bracteae eodem indumento foliorum vestitae. Calyx campanulatus, circa 10 mm longus et 6 mm in diametro, tempore fructu paulum auctus dehiscensque, extus dense fulvideque stellato-pannosus, intus sparse puberulus, dentibus triangulato-lanceolatis, circa 3.5 mm longis et 2.5 mm latis. Corolla alba vel flavescens, usque ad 4.8 cm longa, extus pilis stellato-puberulis pubescentibusque intus pilis furfuraceis vestita, tubo basi 1.5 mm lato, ad medium ampliato, ad faucem 10 mm lato; labium superum rectum, latum breveque, apice rotundatum, 5 mm longum, 10 mm latum; labium inferum 1.3 cm longum, 1.4 cm latum, trilobatum, lobo medio obcordato, 8 mm longo, 9 mm lato, lobis lateralibus rotundatis, circa 10 mm latis. Stamina labio supero paulum breviora, filamentis complanatis, margine membranaceis, puberulis. Stylus gracilis, stamina aequans, superne crassior, stellato-tomentosus, apice subaequaliter bifidus. Ovarium dense fulvido-hirsutum. Nuculae oblongo-triquetrae, compressae, 6—6.5 mm longae, 3—3.5 mm latae, ventri angulatae, dorso rotundatae, pilis initio dense fulvido-stellatis mox deciduis vestitae. Floret a Juli ad Augustum. Fructificat a Septembri ad Aprilem anni secundi.

Yunnan: Ging-hung (景洪) (Che-li, 车里), 950 m s. m., Aug. 1936, C. W. Wang (王启无) 75550 (Typus HP); Shiao-mon-young (小勐养), 1100 m s. m., Aug. 1936, C. W. Wang 75787; Ging-hung, Da-mon-lung (大勐笼), 1500 m s. m., Sept. 1936, C. W. Wang 77982; ibidem, 1500 m s. m., Sept.

1936, C. W. Wang 78214; ibidem, Ban-jiau-chin (班角箐), 840 m s. m., Oct. 1936, C. W. Wang 79725; ibidem, Ga-sa (蔓酒), Nov. 24, 1955, P. Y. Mao (毛品一) 7444; in itinere a Pu-wen (普文) ad Shiao-mon-young (小勐养), Apr. 21, 1957, Sino-Russia Expeditio (中苏调查队) 9640; Ging-hung, Shi-hu-wi-yao (石灰窰), Nov. 23, 1958, Kabanov (卡班诺夫) sine num.

Kwangtung: Fang-chen (防城), Sept. 1—9, 1936, W. T. Tsang (曾怀德) 26790; ibidem, Sept. 10—18, 1936, W. T. Tsang 26825; Shi-wan-da-shan (十万大山), Jul. 28, 1937, H. Y. Liang (梁向日) 69878.

本种近 *G. rugosum* Prain 及光泽锥花 *G. lucidum* Wall., 与后者不同处在于小坚果初时被毛, 叶较宽且具皱纹, 与前者区别点在于花萼长约 10 毫米。

7. 硬毛锥花 新种 图版三十四

Gomphostemma stellato-hirsutum C. Y. Wu, sp. nov. Pl. XXXIV

(Sect. *Gomphostemma* Ser. *Lucida* Prain)

Species in hac serie foliis supra fulvide densiusque hirsutis, subtus pilis stellato-pubescentibus stipitatis fulvidis tectis bene distinguitur.

Herba robusta. Caulis usque ad 1 m altus, obtuse quadrangularis, obscure sulcatus, basi repens atque radices emittens, pilis stellato-pannosis fulvidis densis vel stellato-villosis sparsis vestitus. Folia oblongo-elliptica vel obovato-lanceolata usque ad angusto-oblonga, 13—22 cm longa, 4—7 cm lata, apice obtusa vel acuta ad acuminata, basi cuneato-angustata vel acuta, leviter serrata vel irregulariter denticulata, herbacea, supra in sicco obscure olivacea, pilis hirsutis fulvidis appressis densius vestita, subtus pilis stellato-pubescentibus stipitatis fulvidis sed secus nervos densius tecta; petioli 1.4—3.2 cm longi, ventri plani dorso convexi. Cymae axillares, sessiles, multiflorae, aggregataeque; bracteae foliaceae, oblongae vel ovato-ellipticae, 1.4—3.5 cm longae, 0.7—1.8 cm latae; bracteolae lineares, 6—13 mm longae, 1—1.5 mm latae. Calyx campanulatus, circa 1.4 cm longus et 5 mm in diametro, nervis 10 satis conspicuis, dentibus triangulari-lanceolatis, circa 5 mm longis, basi latioribus, apice lineari-acuminatis. Corolla purpureo-rubra, circa 3.3 cm longa, extus dense stellato-puberula cum pilis glanduloso-pilosis intermixta, intus praeter labium superum puberula, tubo basi circa 2 mm lato, sursum sensim ampliato, ad faucem circa 8 mm lato; labium superum rectum, oblongum, circa 9 mm longum et 5.5 mm latum; labium inferum longius, circa 1.1 cm longum et 8 mm latum, trilobatum, lobo medio rotundato, 6.5 mm longo et lato margine irregulariter obscure undulato, lobis lateralibus ovatis, 6.5 mm longis, 4.5 mm latis. Stamina corolla breviora, filamentis complanatis margine membranceis puberulis. Stylus glaber, longitudine stamina aequans, apice breviter inaequaliterque bifidus. Nuculae oblongo-triquetrae, circa 4.5 mm longae, 3 mm latae, brunnescentes, supra medium pilis longi-stellatis sparsissime obtectae. Floret a Junio ad Augustum. Fructificat ab Augusto ad Februarium anni secundi.

Yunnan: Mon-hai (勐海), 2100m s. m., Jul. 1936, C. W. Wang (王启无) 77368 (Typus HP); ibidem, Ging-man (景曼), 1300 m s. m., Feb. 26, 1957, Sino-Russia Expeditio (中苏调查队) 5255; Ping-bien (屏边), 1400 m s. m., Aug. 7, 1934, H. T. Tsai (蔡希陶) 61432; ibidem, A-da-ko (阿达

口), Lao-jiun-shan (老君山), Jun. 23, 1956, Sino-Russia Expeditio 3923.

本种在 Sect. *Gomphostemma* Ser. *Lucida* Prain 系中以其叶上面被略密的污黄色长硬毛, 下面为污黄色具柄的星状短柔毛极易区别。

8. 槽茎錐花 新种 图版三十五

Gomphostemma sulcatum C. Y. Wu, sp. nov. Pl. XXXV

(Sect. *Gomphostemma* Ser. *Lucidum* Prain)

Species affinis *G. chinensi* Oliv., sed paniculis caulinis axillaribus, brevi-pedunculatis (pedunculis 2—5 mm longis); bracteis ovatis, viridibus differt.

Herba perennis. Caulis circa 1 m altus, acute quadrangularis, profunde sulcatus, dense appressequ fulvido-stellato-tomentosus, ad nodos crassus. Folia late ovato-elliptica, 18—30 cm longa, 7—15 cm lata, apice acuminata, basi cuneato-attenuata, ad petiolos decurrentia, margine irregulariter obscure dentata, herbacea, supra in sicco obscure brunnea sparse hispidula rugosa, subtus pallida dense stellato-tomentosa, venis supra impressis, venulis supra sub lente conspicue prominentibus; petioli 3—6 cm longi, plani, dorso in sicco costiforme convexi, margine angusto-alati. Paniculae e cymis compositae, axillares, aggregatae, multiflorae, cum pedunculis circa 5 cm longae, circa 4 mm latae; pedunculi breves, 2—5 mm longi; bractee ovatae, 20—28 mm longae, 7—14 mm latae, apice longe acuminatae, basi obtusae, eodem indumento quo foliorum vestitae; bracteolae lineares, 10—23 mm longae. Calyx angusto-campanulatus, circa 13 mm longus et 4.5 mm in diametro, extus dense pallideque stellato-tomentosus, intus ad dentes tantum ciliatus, dentibus triangularibus, apice linearibus, longitudine dimidium calycis subaequantibus. Corolla flava, circa 4.6 cm longa, extus puberula, intus subglabra, tubo basi circa 2 mm in diametro, circa ad partes $\frac{2}{3}$ subito ampliatus, ad faucem 1.1—1.3 cm lato; labium superum rectum, 6—9 mm longum, circa 8 mm latum; labium inferum longius, circa 1.3 cm longum et latum, lobo medio obovato, circa 5 mm longo et lato, apice emarginato, lobis lateralibus subrotundatis, circa 6—7 mm longis et latis. Stamina labium superum aequantia, filamentis complanatis, margine puberulis. Stylus gracilis, glaber, stamina aequans, apice inaequaliter bifidus. Discus cupuliformis, crenatus. Nuculae immaturae punctatae. Floret in Decembri.

Yunnan: Ping-bien (屏边), Dec. 8, 1934, H. T. Tsai (蔡希陶) 61603 (Typus HP).

本种近中华錐花 *G. chinense* Oliv., 但圓錐花序生于茎上, 腋生, 具短梗, 梗长 2—5 毫米, 苞片卵圆形, 綠色可区别。

9. 中华錐花茎花变种 新变种

Gomphostemma chinense Oliv. var. ***cauliflorum*** C. Y. Wu, var. nov.

A var. *chinensi* recedit foliis supra sparse hispidis, pilis stellatis fere nullis, floribus saepe e caule emittentibus.

Hainan: Po-ting (保亭), 700 m s. m., Jul. 24, 1935, F. C. How (侯寬昭) 73296 (Typus HC*);

* HC = Herb. Inst. Bot. Austro-Sin. Acad., Canton.

Ching-chung (琮中), Nov. 1954, H. Y. Liang (梁向日) 68240.

与中华锥花 *G. chinense* Oliv. var. *chinense* 区别在于叶上面疏生刚毛, 星状毛几无, 花序多生于茎上。

扭藿香属——*Lophanthus* Adans.

1. 西藏扭藿香 新种 图版三十六

Lophanthus tibeticus C. Y. Wu et Y. C. Huang, sp. nov. Pl. XXXVI

Affinis *L. eleganti* (Lipsky) Levin, sed foliis sessilibus, calycibus longioribus (1—1.5 cm longis), dentibus mucronulatis, corollis sub 90° resupinatis differt.

Herba circa 0.5 m alta. Caulis quadrangularis, paulo ramosus, glanduloso-pilosus vel puberulus. Folia sessilia, decussata, ovata, 2.5—4 cm longa, 1.4—3 cm lata, apice rotundata vel obtusa, irregulariter inciso-dentata, subcoriacea vel herbacea, rugosa, glanduloso-pilosa vel puberula, nervis utrinque conspicuis. Cymae pedunculatae, axillares, foliis aequilongae vel eis breviores; pedunculi 1—1.5 cm longi, dense glanduloso-pilosi. Bractae lineares vel lanceolato-lineares, circa 1.5 cm longae, 1.5 mm latae, dense glanduloso-pilosae. Calyx tubulari-campanulatus, 1.2—1.5 cm longus, subbilabiat, nervis 15, dentibus conspicue venosis, apice acutis mucronulatisque. Corolla pallide lilacina, circa 1.5—1.7 cm longa, extus paulo puberula, sub 90° resupinata. Stamina 4, 2 antica exserta, 2 postica inclusa. Stylus exsertus, apice bifidus, lobis subaequalibus. Discus 4-lobatus, antice in glandulam tumidus. Floret in Septembri.

Tibet: Kata (卡达), 4400 m s. m., Majo 30, 1959, Tibet Expeditio Universitatis Nankingensis (南京大学西藏队) 119 (Typus HP).

铃子香属——*Chelonopsis* Miq.

亚属 I. 等齿铃子香亚属 新亚属

Subg. I. *Aequidens* C. Y. Wu et H. W. Li, subg. nov.

Calyx 5-dentatus, non bilabiat, dentibus aequalibus. Suffrutices vel frutices erecti. Folia opposita vel verticillata.

In regio occidentali-australi et occidentali sinensi distributum.

Typus subgeneris: *C. souliei* (Bonati) Merr. (轮叶铃子香)

Sectiones 2: Sect. *Aequidens* (等齿铃子香组) et Sect. *Microphyllum* C. Y. Wu et H. W. Li (小叶铃子香组)。

花萼具 5 齿, 不呈二唇状, 齿等大。直立半灌木或灌木。叶对生至三叶轮生。分布于我国西南部和西部。

组 1. 等齿铃子香组

Sect. 1. *Aequidens*

Corolla semper alba vel rosea et purpureo-striata. Folia opposita vel verticillata, lanceolata ad ovato-lanceolata, brevipetiolata vel subsessilia.

Typus sectionis: *C. souliei* (Bonati) Merr. (輪叶鈴子香)

Species 3: *C. albiflora* Pax et Hoffm. ex Limpr. (白花鈴子香, 四川、西藏), *C. souliei* (Bonati) Merr. (輪叶鈴子香, 四川、西藏) et *C. forrestii* Anthony (大萼鈴子香, 四川)。

花冠通常乳白色乃至粉紅色而具紫斑。叶对生至三叶輪生, 披針形至卵圓狀披針形, 具短柄或近无柄。

組 2. 小叶鈴子香組

Sect. 2. *Microphyllum* C. Y. Wu et H. W. Li, sect. nov.

Corolla flava vel purpureo-rosea. Folia opposita, ovata ad ovato-triangularia.

Typus sectionis: *C. giraldii* Diels (小叶鈴子香)

Series 2: Ser. *Roseae* C. Y. Wu et H. W. Li (小叶鈴子香系) et Ser. *Lichiangenses* C. Y. Wu et H. W. Li (丽江鈴子香系)。

花冠黃色至紫紅色叶对生, 卵圓狀三角形。

系 1. 小叶鈴子香系 新系

Ser. 1. *Roseae* C. Y. Wu et H. W. Li, ser. nov.

Ramuli pilis pilosis et sparse setosis intermixtis sed non glanduliferis obtecti.

Typus seriei: *C. giraldii* Diels (小叶鈴子香)

Species 4: *C. giraldii* Diels (小叶鈴子香, 陝西、甘肅), *C. odontochila* Diels (齒唇鈴子香, 云南、四川), *C. rosea* W. W. Smith (玫紅鈴子香, 云南) et *C. mollissima* C. Y. Wu (多毛鈴子香, 云南)。

小枝具疏柔毛, 間夾有稀疏的長刺毛, 但絕无腺毛。

1. 多毛鈴子香 新种

Chelonopsis mollissima C. Y. Wu, sp. nov.

Species *C. roseae* W. W. Smith valde affinis, sed differt partibus omnibus plantarum densissime pilosis; foliis rugulosis, margine grosse crenato-serratis.

Frutex 1 m altus. Rami subteretes, densissime pilosi, foliosi. Folia ovato-rotundata, 3—5 cm longa, 2.5—4.5 cm lata, apice acuta, basi subcordata, margine grosse callosocrenato-serrata, utrinque dense pilosa, chartacea, nervis lateralibus 4—5-paribus, ut costa supra leviter impressis subtus conspicuis; petioli 1.5—2.5 cm longi, subteretes, densissime pilosi. Cymae axillares, solitariae vel binae, 1—3-florae, in ramulis brevissimis axillaribus foliatis semper terminales; pedunculi 4—8 mm longi; pedicelli 1—2 mm longi, ut pedunculi densissime pilosi; bracteae ovatae vel oblanceolatae, circa 7 mm longae, 2—3 mm latae, foliaceae, utrinque dense pilosae. Calyx campanulatus, cum dentibus 1.5 cm longus, extus pilosus intus pubescens, 10-nervius, nervis intermediis sub sinus dentium leviter incrassatis, cum venulis transversalibus conjunctis, dentibus 5, anguste triangularibus, 7 mm longis, apice acuminatis setiformibus. Corolla rosea ad rubra, 3.2 cm longa, extus sparse pilosa, intus glabra, ad faucem ampliata; labium superum brevius minusque, 3 mm longum, 7 mm latum, apice emarginatum; labium inferum trilobatum, 9 mm longum,

1.5 mm latum, lobo medio majore trapeziali apice emarginato, lobis lateralibus ovatis. Stamina 4, antica longiora; filamentis filiformibus complanatis pilosulis; antheris ovoideis barbatis. Stylus filiformis, glaber, stamina paulo superans, apice aequaliter bifidus. Discus obliquus. Ovarium atro-brunneum, glabrum. Floret in Novembri-Decembri.

Yunnan: Lu-chūan (禄劝), Chung-ping-shiang (中屏乡), 1700 m s. m., Nov. 11, 1952, P. Y. Mao (毛品一) 1727 (Typus HK*); ibidem, 1700 m s. m., Nov. 12, 1952, P. Y. Mao 1728; Hui-ze (会泽), Gi-duo-shiang (鸡多乡), 1200 m s. m., Dec. 9, 1952, P. Y. Mao 2037.

本种极近玫红铃子香 *C. rosea* W. W. Smith, 但植株各部极密被疏柔毛, 且叶微皱, 边缘有粗大的圆齿状锯齿。

系 2. 丽江铃子香系 新系

Ser. 2. Lichiangenses C. Y. Wu et H. W. Li, ser. nov.

Ramuli pilis patenti-setosis intermixtis glanduloso-pilosulis obtecti.

Typus seriei: *C. lichiangensis* W. W. Smith (丽江铃子香)

Species 5: *C. lichiangensis* W. W. Smith (丽江铃子香, 云南), *C. siccana* W. W. Smith (干生铃子香, 云南), *C. bracteata* W. W. Smith (具苞铃子香, 云南、四川), *C. pseudo-bracteata* C. Y. Wu et H. W. Li (假具苞铃子香, 云南、四川) et *C. abbreviata* C. Y. Wu et H. W. Li (缩序铃子香, 云南)。

小枝密被平展刺毛及具腺小疏柔毛。

2. 假具苞铃子香 新种

Chelonopsis pseudo-bracteata C. Y. Wu et H. W. Li, sp. nov.

Chelonopsis lichiangensis auct. non W. W. Smith: Hand.-Mazz. Symb. Sin. 7: 919. 1936.

C. bracteata auct. non W. W. Smith: C. Y. Wu in Act. Phytotax. Sin. 8: 30. 1959.

2a. 假具苞铃子香

var. *pseudo-bracteata*

Species *C. bracteatae* W. W. Smith valde affinis, sed foliis minoribus, petiolis superne pinnis 1—3-jugis insertis; bracteis minoribus cymam primo non velantibus; pedicellis longioribus differt.

Fruticulus 0.5—1.5 m altus. Rami robusti, teretes, striati, dense patenti-setosi ac glanduloso-pilosuli. Folia ovata, 6—8 cm longa, 3.5—5 cm lata, superiores minores, apice acuminata, basi leviter cordata, margine calloso-crenata interdum calloso-duplicato-crenata, chartacea, supra viridia sparse setosa sed ad costam nervosque laterales 5—6-jugos in sicco utrinque prominentes albo-pilosulos, subtus pallidiora sparse setosa; petioli 4—5 cm longi, superiores breviores 2 mm longi, robusti, ventri sulcati dorso convexi, dense patenti-setosi ac glanduloso-pilosuli, superne pinnis 1—3-jugis inserti. Inflorescentiae cymosae, 3—7-florae, pedunculatae, axillares vel terminales, 1—2-natae; pedunculi 2—4 cm longi, ut pedicelli dense patenti-setosi ac glanduloso-pilosuli; pedicelli per anthesin 1—2.5 cm

* HK = Herb. Filii Kunming. Inst. Bot. Acad. Sin., Kunming.

longi; bracteae foliaceae, lineares ad lanceolatae, 1—3 cm longae, setosae, ad basin pedicellorum extremorum insertae, ob pedicellos elongatos cymam non velantes. Calyx campanulatus, 1.6 cm longus, in fructu ad 2.3 cm longus, extus ad nervos intus ad faucem pilosulus, nervis 10, conspicuis, cum venulis transversalibus connectis, in fructu valde conspicuis; dentibus 5, anguste triangularibus, duobus anticis majoribus 6—7 mm longis apice subito acutis acuminibus reflexis coronatis. Corolla flava vel rosea, 3.6 cm longa, ad faucem circa 1 cm lata, porrecta, supra medium leviter saccato-ampliata, extus superne pilosula, intus glabra, bilabiata; labium superum 3 mm longum, integrum; labium inferum longius, trilobatum, lobo medio 5 mm longo apice emarginato, lobis lateralibus 2 mm longis. Stamina 4, inclusa, postica paullo breviora, filamentis complanatis, posticis et anticis basi pilosulis, antheris ovoideis, circa 2 mm longis, barbatis, 2-locularibus, loculis divergentibus. Discus obliquus, lobo postico dactylinus. Stylus gracilis, stamina paullo superans, apice breviter subaequaliterque bifidus. Ovarium glabrum. Nuculae oblongae, alatae, cum alis 1 cm longae, 0.5 cm latae, complanatae, pallide brunneae, venulosae. Floret in Septembri—Novembri. Fructificat in Novembri.

Yunnan: Chung-tien (中甸), inter Tung-pa-tze (东坝子) et Bōdō (白地), Sept. 10, 1939, K. M. Feng (冯国楣) 2342 (Typus HK); ibidem, Bōdō, 2000 m s. m., Nov. 21, 1937, T. T. Yü (俞德浚) 14928.

Szechuan: Mu-li (木里), La-ma-chang (喇嘛厂), 2700 m s. m., Sept. 1, 1939, K. M. Feng 2898.

本种极近具苞铃子香 *C. bracteata* W. W. Smith, 但叶较小, 叶柄上部明显具 1—3 对小羽片, 苞片较小, 初时不包被聚繖花序, 花梗较长可区别。

2b. 假具苞铃子香红花变种 新变种

Chelonopsis pseudo-bracteata C. Y. Wu et H. W. Li var. **rubra** C. Y. Wu et H. W. Li, var. nov.

A var. *pseudo-bracteata* recedit floribus intense rubris.

Yunnan: Lin-tsang (临沧), 1300 m s. m., Aug. 23, 1957, G. S. Shing (辛景三) 302 (Typus HK).

与假具苞铃子香 *C. pseudo-bracteata* C. Y. Wu et H. W. Li var. *pseudo-bracteata* 区别在于花深红色。

3. 缩序铃子香 新种

Chelonopsis abbreviata C. Y. Wu et H. W. Li, sp. nov.

Species pedunculis brevissimis itaque inflorescentiis contractis inter ser. Lichiangen-sem bene notata.

Frutex erectus. Ramuli teretes, striati, dense patenti-fulvido-setosi ac glanduloso-pilosuli. Folia ovata, 6 cm longa, 4 cm lata, superiora minora, apice acuminata, basi cordata, margine grosse lobulato-duplicato-crenata (crenis callosis), chartacea, supra consperse pilosula ac glandulosa, subtus sparse pilosula ac glandulosa, ad costam et nervos secundarios tertiosque dense pilosula, nervis lateralibus 4—5-jugis supra inconspicuis subtus pro-

minentibus; petioli 0.5—2.5 cm longi, dense setosi ac glanduloso-pilosuli. Inflorescentiae axillares, 1—2-natae, e cymulis 3— ∞ -floris compositae; pedunculi brevissimi, subsessiles, itaque inflorescentiae abbreviatae; pedicelli breves, circa 2—4 mm longi, ut pedunculi setosi ac glanduloso-pilosi; bracteae foliaceae, oblanceolatae, circa 8 mm longae, margine remote 1—2-serratae vel integrae, pilosulae et glandulosae. Calyx campanulatus, cum dentibus circa 1.3 cm longus, extus ad nervos et marginem dentium pilosulus, intus glaber, nervis 8—10, inconspicuis, dentibus 4—5, late triangularibus, 3 mm longis callosis aequalibus. Corolla per anthesin ad 3.5 cm longa, ad faucem circa 8 mm lata, extus limbo tantum sparse pilosula ceterum glabra, intus glabra, bilabiata; labium superum breve, 4 mm longum, 7 mm latum, apice rotundatum; labium inferum 8 mm longum, 15 mm latum, trilobatum, lobo medio majore 6 mm longo 7 mm lato apice emarginato, lobis lateralibus ovatis 4 mm latis. Stamina 4, postica paullo breviora, filamentis filiformibus complanatis pilosulis, antheris 2-ocularibus, loculis ovatis parallelis vel divergentibus barbatis. Discus crenatus. Stylus filiformis, complanatus, stamina paullo superans, apice subaequaliter bifidus. Ovarium nigro-brunneum, glabrum.

Yunnan: Vallis nukiangensis (怒江谷地), 1914, G. Forrest 13587 (Typus HC).

本种的总梗极短,因而花序紧缩,在本系中极易识别。

亚属 II. 铃子香亚属

Subg. II. *Chelonopsis*

花萼具 4—5 齿,齿不等大,明显呈 3/2 式的二唇形。草本植物。

此亚属包括国产的浙江铃子香 *C. chekiangensis* C. Y. Wu (浙江,安徽)以及日本产的 4 个种 *C. moschata* Miq., *C. subglabra* (Miq.) Koidz., *C. longipes* (Makino) Makino, *C. yagiharana* Misauchi et Matsuno.

4. 浙江铃子香短梗变种 新变种

Chelonopsis chekiangensis C. Y. Wu var. ***brevipes*** C. Y. Wu et H. W. Li, var. nov.

A var. *chekiangensi* recedit pedunculis perbrevis, tantum 2—4 mm longis.

Kwangtung: Ju-yuan (乳源), Oct. 16, 1936, J. Li (李耀) 2098 (Typus HC); ibidem, Nov. 3, 1934, S. P. Ko (高锡朋) 54730; ibidem, Nov. 14, 1957, L. Teng (邓良) 5601.

与浙江铃子香 *Chelonopsis chekiangensis* C. Y. Wu var. *chekiangensis* 的区别在于总梗极短,长仅 2—4 毫米。

钩萼属——*Notochaete* Benth.

1. 长刺钩萼 新种 图版三十七

Notochaete longiaristata C. Y. Wu et H. W. Li, sp. nov. Pl. XXXVII

Notochaete hamosa auct. non Benth.: C. Y. Wu in Act. Phytotax. Sin. 8: 32. 1959, p.p.min.

Species *N. hamosae* Benth. valde affinis, sed differt foliis subrotundis, apice acutis,

basi cordatis, membranaceis, margine grosse serrato-crenatis; verticillastris laxis, paucifloris; bracteis longioribus, ad 1.3—1.5 cm longis; calycibus majoribus, cum aristatis 1.3—1.6 cm longis, apice nec membranaceis, sed e nervis in aristatas rigidas apice uncinato-revolutas formantes productis, margine dentium glabris; nuculis apice pilis stellatis obtectis.

Herba erecta, 35—80 cm alta. Rhizoma crassiusculum, radices fibrosas emittens. Caulis erectus, obtuse quadrangularis, quadrisulcatus, basi ad 8 mm in diametro, initio retroverse septato-hirsutus mox glabrescens. Folia ovato-rotunda vel rotunda, 3.5—10 cm longa, 3—9 cm lata, apice acuta, basi leviter cordata vel cordata, margine grosse callososerrato-crenata, membranacea, supra viridia ad marginem dense ceterum sparse septato-hirsuta, subtus pallidiora ad nervos venosque pilis septato-hirsutis et stellatis (cum pilis centralibus longioribus septato-hirsutis) sparse intermixta ceterum glabra, nervis lateralibus 3—4-jugis, ut costa utrin facie conspicuis, adscendentibus et ante marginem anastomosantibus; petioli 2—8 cm longi, a latere complanati, sparse septato-hirsuti. Verticillastri axillares, 8— ∞ -flori, laxi, 3—4 in axillas foliorum superiorum dispositi, ambitu subglobosi, tempore florendi circa 2.5 cm in diametro, tempore fructu ad 4 cm in diametro, petiolis multo breviores, bracteis aristatis 1.3—1.5 cm longis rididis apice uncinato-revolutis glabris corollam superantibus suffulti. Calyx tubularis, dentibus excepto circa 0.6 cm longus, extus supra medium pilis stellatis sparse oblectu, intus glaber, chartaceus, inconspicue 5-nervius, 5-dentatus, dentibus triangularibus, apice e nervis in aristas subulatas rigidas apice uncinato-revolutas basi intus plus minusve concavas glabras formantes productis, corollam superantibus, cum aristis 7 mm longis, in fructu ad 10 mm longis. Corolla alba, tubo incluso, circa 5 mm longo, extus glabro, intus ad faucem plus minusve piloso, limbo bilabiato, labio supero recto galeato integro extus pilosissimo intus apice piloso, labio infero patente subaequaliter trifido extus piloso intus glabro. Stamina 4, sub labio supero adscendentia, didynamia, 2 antica longiora, filamentis filiformibus leviter pilosis, antheris per jugum approximatis bilocularibus, loculis demum divaricatis. Stylus filiformis, apice subaequaliter bifidus, lobis subulatis. Ovarium 4-lobatum, apice pilis stellatis densissime obtectum. Discus cupuliformis. Nuculae trigono-oblongae, apice truncatae pilis stellatis obtectae, 4 mm longae, 2.5 mm latae, pallide brunneae. Floret a Octobri ad Novembrem.

Yunnan: Gong-shan (贡山) (Cham-pu-tong, 菴蒲桶), Taron-Taru Divisio (倮江独龙河分水岭), 2300m s. m., Nov. 7, 1938, T. T. Yü (俞德浚) 20995 (Typus HP); ibidem, Dzung-duei (壮堆), 2000 m s. m., Oct. 1935, C. W. Wang (王启无) 66935 (fr.); ibidem, Dec. 14, 1959, K. M. Feng (冯国楫) 24600 (fr.).

本种十分近于钩萼 *N. hamosa* Benth., 但区别点在于：叶近圆形，先端急尖，基部心形，膜质，边缘有粗大的锯齿状圆齿，轮繖花序疏松，少花；苞片较长，达 1.3—1.5 厘米，萼较大，连刺芒长 1.3—1.6 厘米，顶端由脉延伸成先端呈钩状卷曲的坚硬刺芒因而非膜质，

萼齿边缘无毛,小坚果顶端被星状毛。

野芝麻属——*Lamium* Linn.

1b. 野芝麻硬毛变种 新变种 螯麻子(辽宁)

Lamium barbatum Sieb. et Zucc. var. *hirsutum* C. Y. Wu et Hsuan, var. nov.

A var. *barbato* recedit caule retrorse hirsuto leviter rigido nec acute quadrangulati.

Liaoning: Lien-shan-kwan (莲山关), Majo 24, 1950, M. Noda et al. (野田光藏等) 781; Tsao-ho-kou (草河口), Majo 30, 1926, J. Sato (佐藤润平) 4293; Tsien-shan (迁山), Jun. 23, 1926, J. Sato 8952; ibidem, 200 m s. m., Jul. 31, 1930, K. W. Hsia (夏纬琨) 866.

Heilungkiang: lacum Ging-po (镜泊湖), Jun. 8, 1926, J. Sato 9859; loc. ign., Majo 28, 1950, C. Y. Wu (吴征镒) 178; Dailing (带岭), Aug. 7, 1951, K. S. Hao (郝景盛) 16173; ibidem, Jun. 9, 1953, C. S. Sung (宋朝枢) 81; ibidem, Jul. 19, 1959, Sino-Germania Expeditio (中德队) 7579.

Kirin: O-mu (额穆), Jul. 11, 1931, W. K. Hsia 1788; Statio Huangnibo (黄泥堡), Jun. 8, 1931, W. K. Hsia 1472; Weihuling (威虎岭), 5500 m s. m., Jun. 15, 1931, W. K. Hsia 1549 (Typus HP); ibidem, 600 m s. m., F. H. Chen (陈封怀) 2077; Tu-men-ling (土门岭), Aug. 19, 1918, Y. Yabe (矢部吉祯) sine num.; Jiau-ho (蛟河), 800—1000 m s. m., Jul. 30, 1950, coll. ign. (采集人不明) 10203; Er-dau-dien-tse (二道甸子), Majo 31, 1925, Dorsett 3067; Lau-yei-ling (老爷岭), coll. ign. (采集人不明) 445.

Kansu: Lung-de (隆德), Kwan-shan (关山), 2600 m s. m., Jul. 10, 1942, T. P. Wang (王作宾) 13075; Tien-chu (天水), Jul. 29, 1939, W. Y. Hsia (夏纬琨) 5949.

Shensi: Tsing-ling (秦岭), Tai-pai-shan (太白山), Jun. 3, 1957, C. L. Wu (吴中伦) 30196; Sai-hwa-shan (赛华山), Aug. 21, 1940, T. H. Wang (王振华) 625; Hwa-shan (华山), Apr. 30, 1937, W. Y. Hsia et T. H. Wang 60; Tai-pai-shan, Apr. 22, 1938, K. T. Fu (傅坤俊) et P. C. Tsoong (钟补求) 51; ibidem, Jul. 10, 1938, T. N. Liou (刘慎谔) et P. C. Tsoong 2024; Nan-wu-tai (南五台), Majo 14, 1939, T. N. Liou et P. C. Tsoong 72; Tai-pai-shan, 2100 m s. m., Aug. 1933, T. P. Wang 1664; Lung-hsien (陇县), 1900 m s. m., Jun. 2, 1936, T. P. Wang 4101; ibidem, Kwan-shan (关山), Jun. 2, 1936, T. P. Wang 4144; ibidem, Apr. 16, 1937, T. P. Wang 6466; Mei-hsien (郿县), 1300 m s. m., Apr. 21, 1957, T. P. Wang 17703; Chung-nan-shan (中南山), 800 m s. m., Majo 30, 1933, W. K. Hsia 2444; Hwa-shan, 1800 m s. m., Aug. 19, 1932, K. S. Hao 4067.

Szechuan: Wen-chuan (汶川), 2350 m s. m., Jun. 1, 1930, F. T. Wang (汪发纘) 21103.

与野芝麻 *L. barbatum* Sieb. et Zucc. var. *barbatum* 区别为茎被倒生硬毛,稍坚硬,但不为锐4棱形。

1c. 野芝麻坚硬变种 新变种

Lamium barbatum Sieb. et Zucc. var. *rigidum* C. Y. Wu et Hsuan, var. nov.

A var. *barbato* recedit caule acute quadrangulati rigido retrorse appressequé hispidulo, calycibus tempore fructu chartaceis, 2 cm longis, 5—6 mm in diametro, extus sparse pubescentibus.

Honan: Yu-chai, 800 m s. m., Jul. 3, 1932, K. S. Hao (郝景盛) 3738 (Typus HP); Lu-shih (卢氏), Lai-chün-shan (老君山), 1400 m s. m., Sept. 3, 1935, K. M. Liou (刘继孟) 5380.

与野芝麻 *Lamium barbatum* Sieb. et Zucc. var. *barbatum* 区别为茎锐4棱形,坚硬,

被伏貼倒向短硬毛, 果时萼堅紙質, 长 2 厘米, 径 5—6 毫米, 被疏短柔毛。

1d. 野芝麻近无毛变种 新变种

Lamium barbatum Sieb. et Zucc. var. *glabrescens* C. Y. Wu et Hsuan, var. nov.

A var. *barbato* recedit caule glabrescente, foliis utrinque sparse appresseque pubescentibus, calycibus tempore fructu 1.1—1.2 cm longis, circa 3 mm in diametro, extus glabrescentibus.

Kansu: Ping-liang (平凉), Kung-tung-shan (崆峒山), 1800 m s. m., Jul. 29, 1942, T. P. Wang (王作宾) 13325 (Typus HW*).

与野芝麻 *Lamium barbatum* Sieb. et Zucc. var. *barbatum* 区别为茎近无毛, 叶两面疏被貼生短柔毛, 果时萼长 1.1—1.2 厘米, 径約 3 毫米, 外近无毛。

2. 紫花野芝麻甘肃变种 新变种

Lamium maculatum Linn. var. *kansuense* C. Y. Wu et Hsuan, var. nov.

A var. *maculato* ex Europa recedit foliis planis, margine grosse serratis, subtus inconspicue glandulosis, floribus minoribus, calycis dentibus rectis.

Kansu: Min-chin (民勤), 2700 m s. m., Jun. 20, 1936, T. P. Wang (王作宾) 4675 (Typus HP)

与欧洲产的紫花野芝麻 *Lamium maculatum* Linn. var. *maculatum* 区别在于叶平展, 边缘具粗锯齿, 下面腺点不明显, 花較小, 萼齿直伸。

假野芝麻属——*Galeobdolon* Adans.

組 1. 块根組 新組合

Sect. 1. Matsumurella (Mak.) C. Y. Wu et Hsuan, comb. nov.

Matsumurella Mak. in Bot. Mag. Tokyo 29: 278. 1915.

Herba gracilis, tuberifera. Verticillastri 2—4- vel (2) 4—8-flori; flores subsessiles; ovarium glabrum.

Typus sectionis: *G. tuberiferum* (Mak.) C. Y. Wu (块根假野芝麻)

Species 3: *G. chinense* (Benth.) C. Y. Wu (假野芝麻), *G. tuberiferum* (Mak.) C. Y. Wu (块根假野芝麻) et *G. szechuanense* C. Y. Wu (四川假野芝麻)。

纤弱草本, 具块根。輪繖花序由 2—4 或 (2) 4—8 花組成; 花几无柄; 子房无毛。

1. 假野芝麻 新組合

Galeobdolon chinense (Benth.) C. Y. Wu, comb. nov.

Lamium chienense Benth. in DC. Prodr. 12:512. 1848; S. Moore in Journ. Bot. Brit. & For. 16:138. 1878; Forbes et Hemsl. Ind. Fl. Sin. II in Journ. Linn. Soc. Bot. 26:303. 1890; Dunn et Tutch. Fl. Kwangt. & Hongk. in Kew Bull. Misc. Inf. Add. Ser. 10:211. 1912; Dunn in Notes Bot. Gard. Edinburgh 8:167. 1913; et in ibid. 6:183. 1915; Kudo Labiat. Sino-Japon. Prodr. in Mem. Fac. Sci. Agri. Taihoku Univ. 2:202. 1929; Belval Fl. Ngan-Hoei in Mus. Huede Notes Bot. Chin. 2:103. 1933; Hand.-Mazz. Symb. Sin.

* HW = Herb. Inst. Bio-Podologiae Boreali-Occid. Acad. Sin., Wukung.

7:923. 1936.

1a. 假野芝麻

var. *chinense*

浙江: 镇海, 钟观光 3856; 同地, 龙潭畲, 钟观光无号, 同地, 柴桥, 钟观光无号; 永嘉, 钟观光无号; 杭州, 钟观光无号; 平阳, 钟观光 78, D8; 永康, 采集人及号码不详; 杭州, 严增南 686, 金德孙 300, 307, 张东旭 191, 胡先骕 1563; 宁波, 钟补求无号; 诸暨, 陈诗 105; 金华, 陈诗 999; 武义, 陈诗 1024; 宣平, 陈诗 1102; 天童, 贺贤育 1122。

福建: 白莲, F. P. Metcalf 2634; 产地不明, 钟观光无号; 鼓山, 唐仲璋等 3651; 崇安, 王名金 3004。

湖南: 长沙, 钟观光无号 (1916 年 4 月 10 日及 16 日); 宜章, 钟补勤 676, 陈少卿 350; 产地不明, 叶培忠 87, 97; 2, 阳明山, 蒋英、陈少卿 512; 新阳, 蒋英、陈少卿 810; 黔阳, 李泽棠 15, 656, 1980; 城步, 绥宁二县交界, 溪乡, 李泽棠 1793。

广西: 柳城, 陈文 82248; 桂林, 邓志农 13407; 临桂, 陈立卿 94759。

江西: 吉安, 王德辉 272; 庐山, 王名金 320, 374, 1961。

安徽: 安庆, 御江久夫无号; 青阳、太平二县间, 陵阳镇, Courtois 14752; 歙县(徽州) Courtois 28444; 2, Tong-men, Courtois 25504; 产地不明, 钟观光无号 (1910 年 4 月 3 日)。

广东: 北部, 刘瑞棠 114。

1b. 假野芝麻粗壮变种 新变种

Galeobdolon chinense (Benth.) C. Y. Wu var. *robustum* C. Y. Wu, var. nov.

A var. *chinensi* recedit planta robustiori, 60 cm alta, foliis majoribus, 4—12 cm longis, 3—6 cm latis, corollis albis.

Fukien: Yung-fu (永福), Apr. 22, 1924, H. H. Chung (钟心焯) 2642 (Typus HUA*); ibidem, Fang-kwang-yen (方广岩), Apr. 15, 1923, H. H. Chung 1369; ibidem, Apr. 23, 1925, H. H. Chung 3176.

与假野芝麻 *G. chinense* (Benth.) C. Y. Wu var. *chinense* 区别在于植株粗壮, 高 60 厘米, 叶大, 长 4—12 厘米, 宽 3—6 厘米, 花冠白色。

1c. 假野芝麻近无毛变种 新变种

Galeobdolon chinense (Benth.) C. Y. Wu var. *subglabrum* C. Y. Wu, var. nov.

A var. *chinensi* recedit planta humiori, caule 19 cm alto, foliis rhomboidalibus, 3.8—4.2 cm longis, 1.5—2.2 cm latis, margine crenato-serratis utrinque sparse appressequ hispidulis.

Kiangsi: Ki-an (吉安), Tong-shan (铜山), T. H. Chang (张宗绪) sine num. (Typus HP).

与假野芝麻 *G. chinense* (Benth.) C. Y. Wu var. *chinense* 区别在于植株矮小, 茎高 19 厘米, 叶菱形, 长 3.8—4.2 厘米, 宽 1.5—2.2 厘米, 边缘具圆齿状粗齿, 两面均被稀疏贴生短硬毛。

2. 块根假野芝麻 新组合

Galeobdolon tuberiferum (Mak.) C. Y. Wu, comb. nov.

Lamium chinense var.? *parvifolia* Hemsl. Ind. Fl. Sin. II in Journ. Linn. Soc. Bot.

* HUA = Herb. Univ. Amoy., Amoy.

26:303. 1890.

Leonurus tuberiferus Mak. in Bot. Mag. Tokyo 19:146, 190. 1905.*Matsumurella tuberifera* (Mak.) Mak. in l.c. 29:279. 1915; Kudo Labiat. Sino-Japon. Prodr. in Mem. Fac. Sci. Agri. Taihoku Univ. 2:195. 1929.*Lamium kelungense* Hayata Icon. Pl. Formos. 8:191, t. 12. 1919.*Lamium tuberiferum* (Mak.) Ohwi in Journ. Jap. Bot. 12:327. 1936.

江西: 九江, 钟观光 3399; 新建, 杨祥学 10329, 10310; 南昌, 林英 13062; 丰城, 采集人不明 1657; 产地不明, 莫熙穆 20618。

台湾: 台北, Simada-Hidetaro 996.

湖南: ?, 阳明山, 蒋英, 陈少卿 412; 无号标本 4 份(植所)。

广西: 桂林, 邓志农 13448, 13399。

3. 四川假野芝麻 新种

Galeobdolon szechuanense C. Y. Wu, sp. nov.Species *G. chinensi* (Benth.) C. Y. Wu affinis, sed foliis rhomboideo-ovatis, utrinque ad nervos sparse appresseque pilosis corolla et calyce multo minoribus, planta tenui-stolonifera differt.

Herba perennis, humilis. Caulis 8—10 cm altus, basi tenuistoloniferus, quadrangularis, tenui-striatus, hispidus. Folia rhomboideo-ovatus, 1.7—4.2 cm longa, 1.1—3 cm lata, apice obtusa, basi late cuneata, margine grosse acute serrata, utrinque ad nervos sparse appresseque pilosa; petioli 1.5—3.2 cm longi, tenues. Flores 2—4 axillares verticillati-que; bracteae minimae. Calyx tubulari-campanulatus, 7—8 mm longus, circa 2 mm latus, extus sparse hispidus, dentibus triangulari-lanceolatis, apice aristis circa 2 mm longis ornatis. Corolla purpureo-rubra(?), circa 1.6 cm longa, extus ad labium superum sparse pilosa, ceterum subglabrum, tubo 1.2 mm in diametro, ad faucem 5 mm lato; labium superum rectum, suboblongum, apice truncatum emarginatumque, circa 6.5 mm longum; labium inferum 6 mm longum, 7 mm latum, trilobatum, lobo medio rotundo-obovato, lobis lateralibus subrotundis. Stamina filamenta complanata, glabra. Stylus filiformis, apice subaequaliter bifidus. Discus infundibularis. Ovarii lobi subglobosi, glabri. Nucleae ignotae. Floret in Aprili-Majo.

Szechuan: Chung-king (重庆), Peh-pei (北碚), Apr. 5, 1946, S. S. Chien (錢崇澍) sine num. (Typus HN*); ibidem, Apr. 10, 1946, S. S. Chien sine num.; Nan-chuan(南川), 640 m s. m., 1932, Academia Occid.-Sinica (中国西部科学院) 2745.

本种与假野芝麻 *G. chinense* (Benth.) C. Y. Wu 相近, 但叶为菱状卵圆形, 两面脉上疏被伏疏柔毛, 花冠与花萼远小, 植株具纤细匍匐枝与之不同。

組 2. 二花組 新組

Sect. 2. *Biflora* C. Y. Wu et Hsuan, sect. nov.

* HN = Herb. Inst. Bot. Nanking, Acad. Sin., Nanking.

Herba vel frutex. Verticillastri biflori; flores brevi-pedicellati; ovarii lobi apice paulo hispiduli.

Typus sectionis: *G. kwangtungense* C. Y. Wu (广东假野芝麻)。

Species 2: *G. kwangtungense* C. Y. Wu (广东假野芝麻) et *G. yangsoense* Sun (阳朔假野芝麻)。

草本或灌木。輪繖花序具 2 花;花具短梗;子房裂片頂端有极少的短硬毛。

4. 阳朔假野芝麻 新种 图版三十八, 图 9—10

***Galeobdolon yangsoense* Sun, sp. nov. Pl. XXXVIII, f. 9—10**

Species habitu fruticoso et caule fulvido-hispidulo facile distinguenda.

Frutex. Caulis subteres, fulvido-hispidulus. Folia ovato-oblonga vel oblongo-lanceolata, 4.5—5.5 cm longa, 2.8—3.6 cm lata, apice obtusa vel acuta, basi late cuneata, margine parce mucronato-crenato-serrata, chartacea, supra atro-olivacea, ad costas dense appressequ ceterum sparse pilosa, subtus pallidiora, ad nervos cineraceo-villosa ceterum appresse hispidula; petioli circa 6 mm longi. Verticillastri 2-flori, 1—2 in apicem ramulorum 2.5—6.5 cm longorum dispositi; pedicelli circa 2 cm longi. Calyx campanulatus, circa 9 cm longus et 5 mm latus, extus dense fulvido-tomentosus, dentibus lanceolatis, calycis dimidium aequantibus. Corolla 1.6 cm longa, extus puberula, ad labium superum pilis filiformibus appressis oblecta, intus ad basin filamentorum annulo piloso ornata, tubo basi 1.2 mm in diametro; labium superum circa 8 mm longum, oblongum, apice emarginatum; labium inferum trilobatum, circa 1 cm longum et 8 mm latum, lobo medio subrotundo basi leviter contracto, lobis lateralibus minoribus subrotundis. Stamina filamenta complanata, glabra. Stylus filiformis, apice aequaliter bifidus. Discus infundibularis, costatus. Ovarii lobi apice paulo hispiduli. Nuculae oblongae, apice subtruncatae, basi attenuatae, compresso-triquetrae, circa 3 mm longae, 1.6 mm in diametro. Floret et fructificat circa in Julio.

Kwangsi: Yang-so (阳朔), 200 m s. m., Jul. 4, 1935, R. H. Shan (单人驛) 1128 (Typus HP).

本种为灌木,茎被污黄色短硬毛极易区别。

5. 广东假野芝麻 新种 图版三十八, 图 1—8

***Galeobdolon kwangtungense* C. Y. Wu, sp. nov. Pl. XXXVIII, f. 1—8**

Species *G. yangsoensi* Sun valde affinis, sed planta herbacea, foliis ovatis ad oblongis, supra densius appressequ hispidulis, subtus fulvido-tomentellatis, floribus minoribus roseis differt.

Herba annua(?). Caulis 10—30 cm altus, quadrangularis, profunde sulcatus, dense fulvido-toemtneatus. Folia ovata ad oblonga, 2.5—5.5 cm longa, 1.7—4.2 cm lata, apice obtusa, basi late cuneata ad subrotundata, margine obscure mucronulato-serrata, chartacea, supra flavo-brunnea, densius appressequ hispidula, subtus pallidiora, fulvido-tomentella; petioli 1—2 cm longi. Verticillastri biflori. Flores pedicellati, pedicellis 2 mm longis. Calyx campanulatus, 1 cm longus, 4.5 mm in diametro, extus pubescens, dentibus lanceo-

latis, circa calycis dimidium aequantibus, apice longe acuminatis. Corolla rosea, 1.8 cm longa, extus puberula, glandulis lutescentibus oblecta, ad labium superum dense villosa, intus ad basin annulo piloso ornata, tubo ad 12 mm longo, basi 1 mm ad faucem 3.2 mm in diametro; labium superum rectum, circa 6 mm longum, oblongum, apice obtusum, valde inconspicue emarginatum, leviter concavum; labium inferum circa 6.5 mm longum et 7.5 mm latum, trilobatum, lobo medio late rotundo apice emarginato basi contracto, lobis lateralibus minoribus, ovatis. Staminum filamentis complanatis glabris. Stylus filiformis, glaber, apice aequaliter bifidus. Discus infundibularis. Ovarii lobi subglobosi, atro-brunnei, apice truncati, lacteo-hispiduli. Nuculae triquetre oblongae, apice truncatae, basi attenuatae, circa 3 mm longae et 1.2 mm in diametro, apice puberulae. Floret et fructificat in Julio-Septembri.

Kwangtung: Yü-yüan (乳源), Jul. 11, 1913, S. P. Ko (高錫朋) 53040 (Typus HC); ibidem, Sept. 10, 1935, Z. S. Chung (鍾濟新) 11043.

本种极近阳朔假野芝麻 *G. yangsoense* Sun, 但为草本, 叶卵圆至长圆形, 上面被较密的伏贴短硬毛, 下面被污黄色短绒毛, 花较小, 玫红色, 与之不同。

益母草属——*Leonurus* Linn.

亚属 I. 鬃尾草状益母草亚属 新亚属

Subg. I. *Chaituroides* C. Y. Wu et H. W. Li, subg. nov.

Subgenus hoc habitu generi *Chaituri* Willd. affine ac manifeste ab eo transiens, a quo differt corollis exsertis, staminibus inaequalibus, antherae loculis parallelis, calycis dentibus 5 inaequalibus duobus inferioribus altius connatis. In genere *Leonuri* Linn., subgenus hoc corollis minutis exannulatis ac serraturis foliorum bene notata. Calycibus non manifest bilabiatis *Cardiochilio* V. Krecz. et Kuprian. peraffine.

Calyx non manifeste bilabiatus, dentibus inferioribus longioribus non patentibus. Corolla minuta calycem paullo superans, eius tubo non dilatato exannulato, labio supero infero subaequante suberecto. Folia integra, trilobata vel tripartita.

Typus subgeneris: *L. chaituroides* C. Y. Wu et H. W. Li.

Subgenus monotypicum in montibus provinciarum Hupeh et Anhwei occurens.

花萼不明显二唇形, 前齿较后齿伸长且不开张。花冠小, 略伸出萼, 冠筒近等大, 无毛环, 上唇与下唇略相等, 近直立。叶全缘、三浅裂至深裂。单型亚属产于湖北及安徽山地。

本亚属在体态上近于鬃尾草属 *Chaiturus* Willd., 并显系向该属过渡, 但由于花冠伸出, 雄蕊不等长, 药室平行, 萼齿 5, 不等大, 前 2 齿高度靠合而区别。它在益母草属 *Leonurus* Linn. 中由于花冠小, 无毛环, 以及叶的锯齿式样很特异, 但花萼不明显二唇而与益母草亚属 Sub. *Cardiochilium* V. Krecz. et Kuprian. 联系。

1. 鬃尾草状益母草 新种

Leonurus chaituroides C. Y. Wu et H. W. Li, sp. nov.

Species *L. heterophyllo* Sweet affinis sed corollis minutis calycem paullo superantibus,

tubo non dilatata exannulato; foliis multo minoribus valde differt.

Herba annua vel biennis; rhizoma tenue repens e nodis radices fibrosas emittens. Caulis erectus 30—100 cm altus, solitarius, simplex vel superne ramosus, obtuse quadrangularis, leviter quadrisulcatus, dense retrorseque pubescens, juventute pallide viridis aetate purpurascens, ramulis gracilibus elongatis. Folia ima caduca ignota; caulina ambitu oblonga ad ovata, 2.5—4 cm longa, 1.5—2 cm lata, apice acuminata, basi cuneata, margine tripartita, lobis ad $1/2$ — $1/3$ basin partitis, herbacea, supra viridia pubescentia, subtus glauco-viridia, pubescentia ac glandulosa, nervis lateralibus 2—4-jugis supra impressis subtus conspicue prominentibus, petiolis haud 1 cm longis ventri sulcatis dorso convexis pubescentibus; floralia minora, linearia vel lineari-lanceolata, 2—3 cm longa, 0.5—0.8 cm lata, apice acuminata, basi cuneata, integra vel remote 1—2-serrata, petiolis brevibus vel subsessilibus. Verticillastri axillares, minuti, 2—12-flori, maximi ad 1.5 cm in diametro, remoti, in spicam longam formantes, bracteis paucis aristatis patentibus vel leviter recurvatis pubescentibus 3—5 mm longis suffulti. Pedicelli nulli. Calyx turbinatus, ad medium leviter ampliatus, in fructu urceolatus, minutus, circa 4 mm longus, extus glauco-viridis pubescens, intus praeter dentes glaber, 5-nervius, nervis superne conspicuis inferne evanescentibus, dentibus 5, duobus anticis altius connatis subulatis apice setoso-acutis 2.5—3 mm longis porrectis, tribus posticis brevioribus aequalibus triangularibus 1.5—2 mm longis apice setoso-acutis erectis. Corolla alba vel purpureo-rubra, 7—8 mm longa, extus supra medium tubi albo-pilosula ceterum glabra, intus a medio tubi ad faucem sparse pubescens exannulata, tubo non dilatato 4—5 mm longo, limbo bilabiato, labio supero erecto ovato concavo extus albo-pilosulo intus glabro, labio infero paullo patente extus praeter marginem pilosulo intus glabro trilobato, lobo medio majore obcordato manifeste bilobulato margine membranaceo, lobis lateralibus ovatis. Stamina 4, sub labio supero adscendentia, circa ad medium tubi inserta, antica longiora, filamentis filiformibus complanatis pilosulis, antheris ovoideis 2-ocularibus, loculis parallelis. Stylus filiformis, stamina paullo superans, apice aequaliter bifidus. Discus cupuliformis. Ovarium intense brunneum, glabrum. Nuculae ovato-triquetrae, circa 2.5 mm longae, castaneo-brunneae, apice truncatae, basi cuneatae, punctulatae. Floret in Septembri. Fructificat in Octobri.

Hupei: Li-chuan (利川), 1000 m s. m., Sept. 2, 1951, L. Y. Dai (戴伦膺) et C. H. Chien (錢重海) 967 (Typus HP); ibidem, Sept. 20, 1951, L. Y. Dai et C. H. Chien 1139.

Anhui: Su-cheng (舒城), Oct. 2, 1951, Statio Bot. Orientali-Sinensis (华东工作站) 4624; Kiuhwa-shan (九华山), Oct. 13, 1951, Statio Bot. Orientali-Sinensis 4688 (fr.); Hwang-shan (黄山), Oct. 26, 1951, Statio Bot. Orientali-Sinensis 6238.

本种与益母草 *L. heterophyllum* Sweet 有亲缘, 但花冠小, 伸出花萼不多, 冠筒近等大, 无毛环, 叶十分小可区别。

亚属 II. 益母草亚属

Subg. II. *Cardiochilium* V. Krecz. et. Kuprian. in Fl. URSS 21: 650. 1954 (Ad-

denda XX).

系 1. 益母草系 新系

Ser. 1. *Heterophylli* C. Y. Wu et H. W. Li, ser. nov.

Folia ad basin in laciniis 3 angustatis partita, laciniis in lobulos pinnatos partitis.

Typus seriei: *L. heterophyllus* Sweet (益母草).

Species 2: *L. heterophyllus* Sweet et *L. sibiricus* Linn. (细叶益母草).

叶深裂达基部成三个窄裂片, 裂片再作羽状分裂。

2. 益母草白花变型 新名称

Leonurus heterophyllus Sweet f. *leucanthus* C. Y. Wu et H. W. Li, nom. nov.

Leonurus sibiricus Linn. var. *albiflorus* Migo in Journ. Shanghai Sci. Inst. Sect. III.

3: 1935.

江苏: 上海, 御江久夫无号, 复旦大学生物系 10375, 严增南 10325; 苏州, 御江久夫无号 (L. U. 94866); 高邮, 华东工作站 2522。

福建: 南平, 福建山区植物资源综合调查队 58129。

广东: 梅县, 曾怀德 21523; 海南岛澄迈, 华南植物所 81; 和平, 卫兆芬 120378。

广西: 阳朔, 冯钦 21153。

贵州: 遵义, Albert N. Steward, 焦启源及周鹤昌 280。

云南: 蒙自, 王启无 81600; 景东, 李鸣岗 1606; 昆明, 邱炳云 54591。

四川: 松潘, 方文培 4231; 木里, 俞德浚 14053。

3. 细叶益母草白花变型 新组合

Leonurus sibiricus Linn. f. *albiflorus* (Nakai & Kitagawa) C. Y. Wu et H. W. Li, comb. nov.

Leonurus manshuricus Yabe f. *albiflorus* Nakai & Kitagawa in Rep. First Sci. Exp.

Manch. sect. 4, 1:47. 1934.

系 2. 大花益母草系 新组合

Ser. 2. *Macranthi* (Matsum. et Kudo) C. Y. Wu et H. W. Li, comb. nov.

Leonurus Linn. Sect. *Macrantha* Matsum. et Kudo in Bot. Mag. Tokyo 21:298. 1912, nom. nud.

Laciniae folii amplae, inciso- vel grosse serrato-dentatae, non lobatae.

Typus seriei: *L. macranthus* Maxim. (大花益母草).

Species 2: *L. macranthus* Maxim. et *L. pseudo-macranthus* Kitagawa (拟大花益母草).

叶裂片宽大, 其上有缺刻或粗大锯齿状牙齿不呈小裂片状。

亚属 III. 欧益母草亚属

Subg. III. *Leonurus*

Leonurus Linn. Subg. *Cardiaca* Benth. Labiat. Gen. et Sp. 518. 1832—36.

欧益母草系

Ser. *Cardiaci* V. Krecz. et Kuprian. in Fl. URSS 21: 145. 1945.

4. 五台山益母草 新种

Leonurus wutaishanicus C. Y. Wu et H. W. Li, sp. nov.

Species *L. quinquelobato* Gilib. valde affinis sed praeter nodos partibus caulium ac foliorum non dense patenti-pilosis differt.

Herba erecta; rhizoma lignosum, crassum. Caulis erectus, 60—90 cm altus, solitarius, supra medium ramosus, anguste quadrangularis, quadrisulcatus, angulos versus retrorse pubescens, ad nodos dense piloso-annulatus, ramis floriferis. Folia caulina ambitu subrotundata, circa 5 cm in diametro, apice caudato-acuminata, basi cordata, ad 1/3 supra basin in laciniis 5 ambitu oblongis circa 1 cm latis inaequaliter serratis partita, supra intense viridia sparse pilosula, subtus pallidiora ad nervos et marginem pilosulos ceterum glandulosa, chartacea, nervis primariis secundariisque supra impressis subtus prominentibus, petiolis 1—1.2 cm longis ventri sulcatis dorso convexis pilosulis; floralia anguste rhomboidalia, basi cuneata, tripartita, laciniis lineari-lanceolatis, petiolis 1—1.5 cm longis. Verticillastri axillares, ambitu globosi, tempore florendi ad 1.5 cm in diametro, aggregate multiflori, remoti, in spicam 5—20 cm longam formantes, bracteis aristatis 3—5 mm longis pilosulis suffulti. Pedicelli nulli. Calyx obconicus, extus dense pubescens sed ad nervos ac dentes pilosus, intus glaber, conspicue 5-nervius, tubo 4 mm longo, dentibus 5, in fructu reflexis, duobus anticis 2.5 mm longis altius connatis anguste triangularibus apice aristato-acutis, tribus posticis 2 mm longis triangularibus apice aristato-acutis. Corolla 8 mm longa, tubo 4 mm longo supra annulum satis dilatato extus superne piloso intus ad 1/3 basin oblique piloso-annulato, limbo bilabiato, labio supero recto leviter concavo oblongo-ovato extus piloso intus glabro, labio infero horizontaliter patente trilobato, lobo medio majore, lobis lateralibus ovatis. Stamina 4, antica longiora recurvata, postica sub labio supero adscendentia, filamentis filiformibus pilosulis. Stylus filiformis, stamina paullo superans, apice aequaliter bifidus. Discus cupuliformis. Ovarium intense brunneum, apice pilosum. Nuculae immaturae brunneae, trigono-oblongae, apice truncatae et pilosae, basi cuneatae. Floret in Julio. Fructificat in Julio-Augusto.

Shansi: Wu-tai-shan (五台山), 2100 m s. m., Jul. 18, 1929, W. Y. Hsia (夏纬瑛) 1372 (Typus HP); ibidem, 1929, J. H. Serre 2258.

本种极近五裂益母草 *L. quinquelobatus* Gilib., 但不同在于除节部外茎叶各部均非密被平展疏柔毛。

浓疮草属——Panzeria Moench.**1. 小花浓疮草 新种**

Panzeria parviflora C. Y. Wu et H. W. Li, sp. nov.

(Ser. *Dolichodontae* V. Krecz. et Kuprian.)

Species *P. albescenti* Kuprian. et *P. canescenti* Bunge valde affinis, sed caulibus et ramis densissime albo-tomentosis, caulibus ramosis, corollis brevioribus, e calyce paullo exsertis differt.

Herba perennis, radice lignosa. Caules 25—40 cm alti, solitarii vel numerosi e collo emittentes, e basi ramosi, quadrangulati, densissime albo-lanato-tomentosi, ramulis brevibus floriferis. Folia caulina ambitu rotunda, 4—6 cm in diametro, apice obtusa basi cordata, in lacinias 5 late cuneatas remote 1—2-serratas usque ad medium dissecta, margine revoluta, supra viridia, subtus pallidiora, utrinque dense pubescentia, nervis supra impressis subtus prominentibus albescentibusque, petiolis 2.5—4.5 cm longis complanatis ventri sulcatis dorso convexis densissime albo-lanato-tomentosis; folia floralia minora 1—3.5 cm lata, semper tripartita, petiolis 1—1.5 cm longis. Verticillastri axillares, 8—12-flori, in spicas terminales dispositi, bracteis paucis rigidis lineari-subulatis patentibus albo-tomentosis circa 8 mm longis aristato-subulatis suffulti. Calyx tubulari-campanulatus, dentibus exceptis circa 1 cm longus, ad faucem leviter oblique ampliatus, extus dense albo-pilosulus, intus glaber, nervis 5 superne paullo prominentibus inferne evanescentibus, dentibus 5 anguste triangularibus apice aristato-subulatis inaequalibus, tribus superioribus brevioribus 3 mm longis, duobus inferioribus conspicue porrectis ad 5 mm longis. Corolla 2—2.2 cm longa, tubo 1 cm longo incluso extus superne sericeo-piloso intus glabro, limbo bilabiato, labio supero oblongo circa 1.1 cm longo 3 mm lato galeato recto extus densissime sericeo-piloso intus glabro, labio infero oblongo 1 cm longo 5 mm lato subpatente trilobato, lobo medio majore late obcordato apice 2-lobulato, lobis lateralibus ovatis. Stamina 4, antica longiora, omnia sub labio supero adscendentia, infra faucem inserta, filamentis filiformibus paullo pubescentibus, antheris ovoideis 2-ocularibus, loculis parallelis transversaliter dehiscentibus. Stylus filiformis, staminibus paullo brevior, apice aequaliter bifidus, lobis subulatis. Discus cupuliformis. Ovarium glabrum. Floret in Julio.

Sinkiang: loc. ign. (产地不明), Academia Agriculturae Sinkiangensis (八一农学院) 2013 (Typus HP); Altai (阿勒泰), Jul. 1955, Academia Agriculturae Sinkiangensis 22365, 22366.

2. 浓疮草较小变种 新变种

Panzeria alaschanica Kuprian. var. **minor** C. Y. Wu et H. W. Li, var. nov.

A var. *alaschancia* recedit foliis in lacinias angustiores vix 2 mm latas profundius dissectis, floribus multo minoribus 25—(28) mm longis.

Mongolia Interior: Ordos (鄂尔多斯), 1300 m s. m., Aug. 2, 1933, W. Y. Hsia (夏纬瑛) 3831 (Typus HP); ibidem, 1250 m s. m., Aug. 5, 1933, I. Y. Pai (白荫云) 26.

与浓疮草 *P. alaschchanica* Kuprian. var. *alaschchanica* 区别在于叶分裂较深, 裂片较狭, 宽不及 2 毫米, 花远较小, 长 25—(28) 毫米。

Kuprianov (in Not. Syst. Herb. Inst. Bot. Komarov. Acad. Sci. URSS 15: 364. 1953) 提到内蒙鄂尔多斯所产的标本叶分裂较深而狭, 据检查我们所藏的标本除叶裂片特征外, 花一般亦较小, 常在 25 毫米, 稀达 28 毫米, 这些差异似应看成一变种为宜。

3. 甘肃浓疮草 新种

Panzeria kansuensis C. Y. Wu et H. W. Li, sp. nov.

(Ser. *Microdonta* V. Krecz. et Kuprian.)

Species *P. alaschanicae* Kuprian. valde affinis, sed foliis in lacinias latiores 6—8 mm latas ad medium dissectis differt.

Herba perennis. Caules numerosi, ramosi; ramulis quadrangularibus, pilis initio dense breviterque albo-tomentosis demum plus minusve deciduis vestitis. Folia caulina ambitu rotunda, 3.5—5 cm lata, apice obtusa basi cordata, in lacinias 5 late cuneatas basi 6—8 mm latas 1—2-crenatas vel-lacinulatas ad medium dissectis, margine revoluta, supra viridia dense adpressequae pubescentia, subtus canescentia pilis tomentosis albis compactis tecta, nervis supra impressis subtus inconspicuis; petioli 2.5—3.5 cm longi, complanati, ventri sulcato, dense breviterque albo-tomentosi. Verticillastri axillares, circa 10-flori, spicas terminales dense formantes, bracteis paucis lineari-subulatis aristatis porrectis 0.7—1.2 cm longis dense tomentosis suffulti. Pedicelli nulli. Calyx tubulari-campanulatus, ad faucem ampliatus, dentibus exceptis 15 mm longus, extus dense albo-tomentosus intus glaber, nervis 5, ut venulae reticulatae plus minusve prominentibus, dentibus 5, subaequalibus 2—3 mm longis, basi late triangularibus, apice abrupte breviterque aristatis. Corolla alba, circa 35 mm longa, tubo 1.7 cm longo, extus superne sericeo-piloso inferne glabro, intus ad faucem sparse pilosulo, limbo bilabiato, labio supero recto galeato oblongo 18 mm longo 6.5 mm lato basi contracto extus densissime sericeo-piloso intus glabro, labio infero recto obovato 18 mm longo 12 mm lato trilobato, lobo medio majore late obcordato 5 mm longo 10 mm lato apice bilobulato, lobis lateralibus ovatis 4 mm latis. Stamina 4, 2 antica longiora, omnia sub labio supero adscendentia, filamentis filiformibus complanatis leviter pubescentibus, antheris ovoideis 2-locularibus, loculis parallelis transversaliter dehiscentibus. Stylus filiformis, stamina superans, apice aequaliter bifidus. Discus cupuliformis. Ovarium glabrum. Floret in Octobri.

Kansu: Ku-lang (古浪), 1900 m s. m., Oct. 19, 1958, Tsing-hai-Kansu Expeditio (青甘队) 1258 (Typus HP).

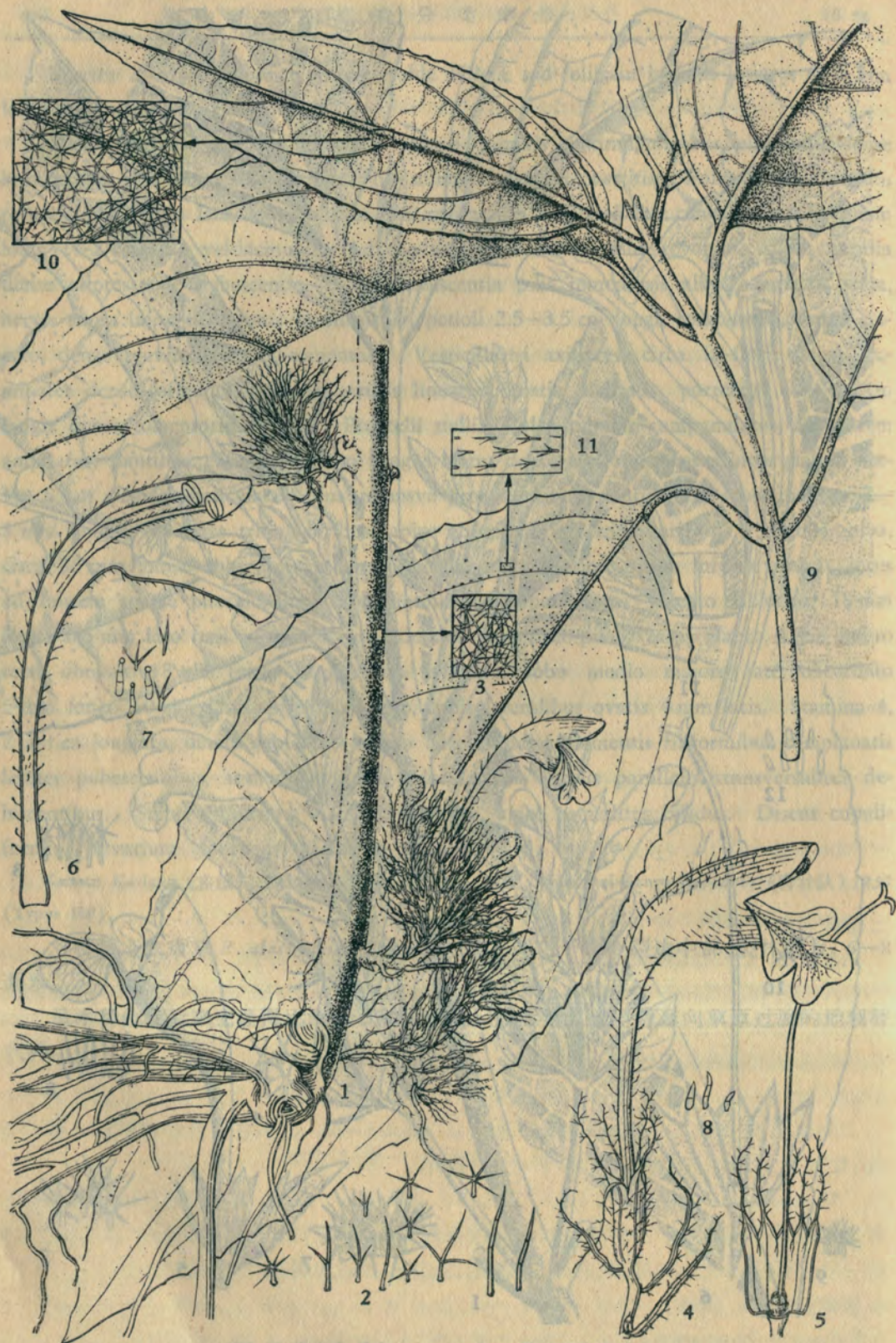
本种极近浓瘡草 *P. alaschanica* Kuprian., 但不同在于叶分裂达中部, 裂片宽大, 6—8 毫米。

从本种体态看来它显得比浓瘡草较为中生, 显然是逐渐自荒漠向草原过渡的地理替代种。



三角齿雏花 *Gomphostemma deltodon* C. Y. Wu

1. 花枝(原大); 2. 茎上星状毛, $\times 10$; 3. 叶背星状毛, $\times 10$; 4. 叶表面星状毛, $\times 10$; 5. 花及苞片, $\times 1\frac{1}{2}$; 6. 花萼展开及雌蕊, $\times 2$; 7. 萼外面星状毛, $\times 10$; 8. 萼内面单毛, $\times 10$; 9. 子房上毛, $\times 10$; 10. 花柱上毛, $\times 10$; 11. 花冠内面观, $\times 2$; 12. 花冠内面毛; 13. 花丝一部分, 示边缘之毛被。(绘图标本: 云南, 王启无 75545, 王利生绘图)



拟长毛雏花 *Gomphostemma pseudo-crinitum* C. Y. Wu

1. 植株基部示花序及根(原大); 2. 苞片及萼上的毛, $\times 10$; 3. 茎上毛, $\times 10$; 4. 花及苞片, $\times 2$; 5. 萼展开及雌蕊, $\times 2$; 6. 花冠纵剖及雄蕊, $\times 2$; 7. 花外面的毛, $\times 10$; 8. 花内面毛, $\times 10$; 9. 植株顶部(原大); 10. 叶背面毛, $\times 10$; 11. 叶表面毛, $\times 10$ 。(绘图标本: 广西, 秦仁昌 6851, 刘春荣绘图)



海南錐花 *Gomphostemma hainanense* C. Y. Wu

1. 花枝(原大); 2. 花, $\times 3$; 3. 萼展开, 内面观, $\times 3$; 4. 花冠纵剖及雄蕊, $\times 3$; 5. 雌蕊及花盘, $\times 3$; 6. 苞片, $\times 2$ 。(绘图标本: 海南, 侯宽昭 73517, 曾孝濂, 冀桂珍绘图)

木锥花 *Gomphostemma arbusculum* C. Y. Wu

1. 植株顶部(原大); 2. 茎上毛, $\times 10$; 3. 叶背面毛; 4. 叶表面毛, $\times 10$; 5. 苞片及小苞片, $\times 2$; 6. 苞外毛, $\times 10$; 7. 苞内毛; 8. 花, $\times 2$; 9. 萼展开及雌蕊, $\times 2$; 10. 萼外毛, $\times 10$; 11. 萼内毛, $\times 10$; 12. 子房上毛, $\times 10$; 13. 花柱上毛, $\times 10$; 14. 花冠外毛, $\times 10$; 15. 花冠纵剖及雄蕊, $\times 2$; 16. 雄蕊, 示花药背面; 17. 花冠内毛, $\times 10$; 18. 小坚果, $\times 3$ 。(绘图标本: 云南, 王启无 76475, 刘春荣绘图)



宽叶雏花 *Gomphostemma latifolium* C. Y. Wu

1. 植株顶部(原大); 2. 茎上毛, $\times 10$; 3. 叶(原大); 4. 叶背面毛, $\times 10$; 5. 叶表面毛, $\times 10$; 6. 花及苞片, $\times 2$; 7. 萼展开及雌蕊, $\times 2$; 8. 萼外毛, $\times 10$; 9. 萼内毛, $\times 10$; 10. 花外毛, $\times 10$; 11. 花冠纵剖及雄蕊, $\times 2$; 12. 雄蕊, 示花药背面, $\times 2$; 13. 果时的花萼, $\times 2$; 14. 未成熟的小坚果, $\times 2$, 示三枚发育, 一枚不发育; 15. 小坚果背面观, $\times 2$; 16. 小坚果腹面观。(绘图标本: 云南, 王启无 7550, 刘春荣绘图)

硬毛雏花 *Gomphostemma stellato-hirsutum* C. Y. Wu

1. 植株顶部(原大); 2. 茎上毛, $\times 10$; 3. 叶状苞片, $\times 2$; 4. 小苞片, $\times 2$; 5. 叶背面毛, $\times 10$; 6. 叶表面毛, $\times 10$; 7. 花及小苞片, $\times 2$; 8. 花冠外面的两种毛, $\times 10$; 9. 萼展开及雌蕊, $\times 2$; 10. 花冠纵剖及雄蕊, $\times 2$; 11. 雄蕊, 示花药的背面, $\times 2$; 12. 花冠内面的毛, $\times 10$; 13. 果时的萼, $\times 2$; 14. 小坚果, 示四枚均发育, $\times 2$; 15. 小坚果背面, $\times 2$; 16. 小坚果腹面, $\times 2$ 。(绘图标本: 云南, 蔡希陶 61603, 刘春荣绘图)



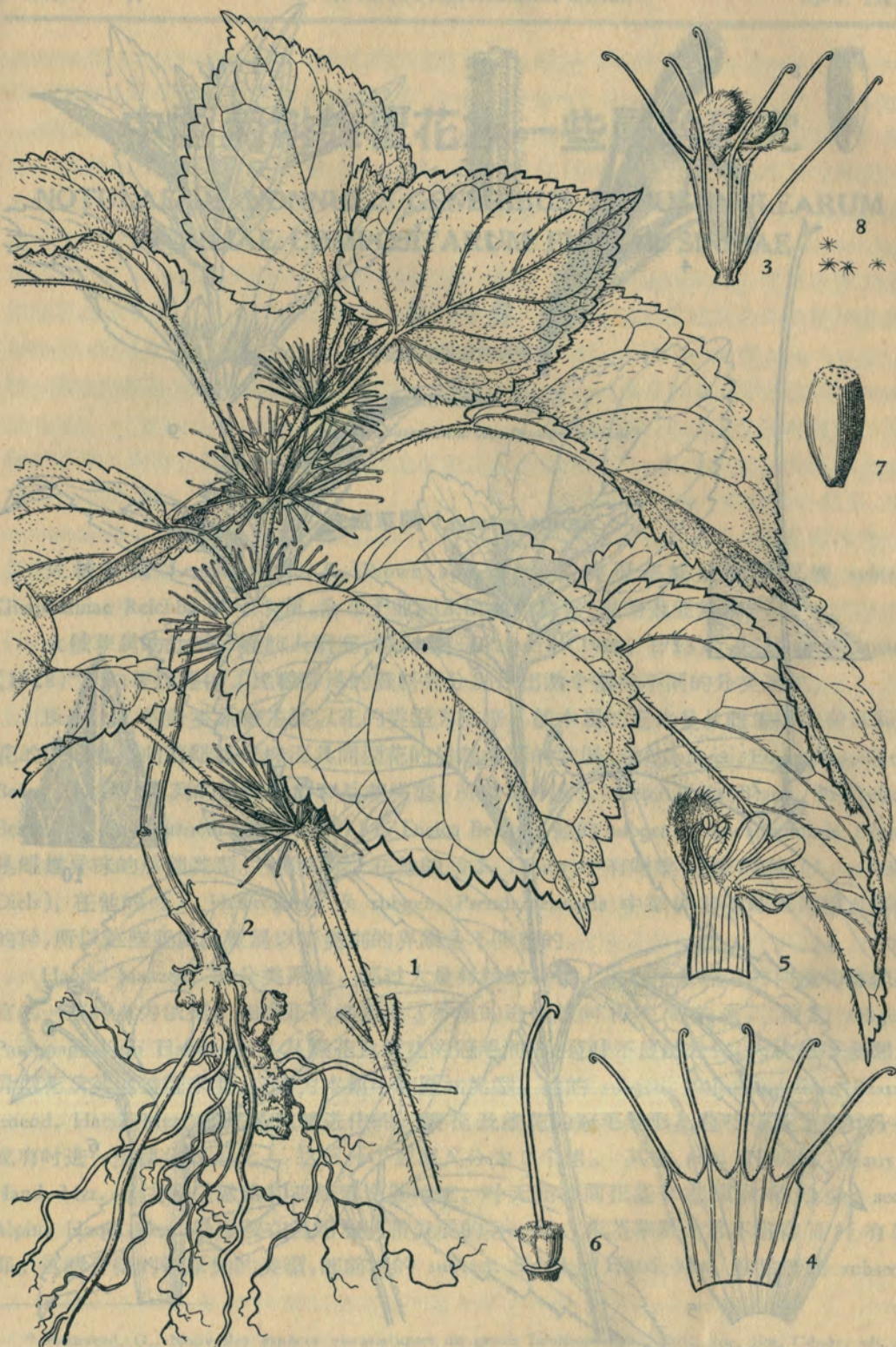
槽茎雏花 *Gomphostemma sulcatum* C. Y. Wu

1. 植株顶部(原大); 2. 茎上毛, $\times 10$; 3. 叶(原大); 4. 叶背面毛, $\times 10$; 5. 叶表面毛, $\times 10$; 6. 苞片及小苞片(原大); 7. 花及小苞片, $\times 2$; 8. 萼外毛, $\times 10$; 9. 萼内毛, $\times 10$; 10. 萼展开及雌蕊, $\times 2$; 11. 花纵剖及雄蕊, $\times 2$; 12. 花外毛, $\times 10$; 13. 花内毛, $\times 10$; 14. 雄蕊, 示花药背面, $\times 2$ 。(绘图标本: 云南, 蔡希陶 61603, 刘春荣绘图)



西藏扭霍香 *Lophanthus tibeticus* C. Y. Wu et Y. C. Huang

1. 植株上部; 2. 叶背面一部分放大; 3. 小苞片, $\times 3$; 4. 花, $\times 3$; 5. 花萼展开, $\times 3$; 7. 雌蕊, $\times 3$ 。(绘图标本: 西藏, 南京大学标本室1119, 曾孝濂绘图)



长刺钩萼 *Notochaete longiaristata* C. Y. Wu et H. W. Li

1. 植株上部(原大); 2. 根茎及根(原大); 3. 带一苞片的花, $\times 3$; 4. 花萼展开, $\times 3$; 5. 花冠展开, $\times 3$; 6. 雌蕊, $\times 5$; 7. 小坚果, $\times 5$; 8. 小坚果顶端星状毛, $\times 20$ 。(植株及花标本: 云南, 俞德浚 20995; 小坚果标本: 云南, 王启无 66935, 曾孝廉绘图)



1—8. 广东假野芝麻 *Galeobdolon kwangtungense* C. Y. Wu
1. 植株上部(原大); 2. 茎的一部分, $\times 5$; 3. 叶背面一部分, $\times 3$; 4. 花, $\times 3$; 5. 花萼展开, 内面观, $\times 3$;
6. 花冠展开, 内面观, $\times 3$; 7. 雌蕊, $\times 5$; 8. 小坚果, $\times 5$ 。(绘图标本: 广东, 高锡朋 53040)。 9—10.
阳朔假野芝麻 *Galeobdolon yangsoense* Sun; 9. 植株上部; 10. 叶背面一部分, $\times 3$ 。(绘图标本:
广西, 单人骅 1228, 曾孝濂绘)