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云南秋海棠属三新种*

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Three New Species of *Begonia* from Yunnan

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尖被秋海棠 新种 图 1

Begonia acutitepala Guan et Tian, sp. nov. (Sect. *Begonia*)

Species *B. asperifoliae* Imscher et *B. labordei* Lévl. affinis, differt ab illa scapis efoliolatis, laminis foliorum non lobulatis vel duplicato - serratis, tepalis exterioribus ovato - lanceolatis apice acuminatis; ab hac inflorescentiis typice symmetrico - dicharioidibus, tepalis floris feminei 5, quorum exterioribus 2 apice acutis, stylis omnino discretis.

Herb utique hirsuta, villosa vel tomentosa, 10 ~ 30 cm alta. Tubera 2 usque ad aligot, 0.8 ~ 2.8 cm crassa, radicibus numerosis fibrosis obiecta. Folia basalia 1 ~ 2 (- 3) e tubere terminali orientia; laminae late cordatae papyraceae rugolusae utique virides 14 ~ 20 × 10 ~ 15 cm, margine serrulatae, utroque latere non symmetricae, basi cordato - decurrentes, decurrenti - partibus plus minusue imbricatis, nervis 10 ~ 12, palmatis, superne leviter concavis, subtus prominentibus; petioli 20 ~ 30 cm longi, 4 ~ 6 mm crassi viriduli vel carnei. Scapus viridis saepe solitarius efoliolatus cum dichasio ca. 24 cm longus. Dichasium ca. 20 - florum, ad nodum ramorum floriferorum flore masculino 1 longi-pedicellato solum praeditum. Bractaeae virides late ovate integrae 1 ~ 1.2 cm longae. Flores monoeci roseoli. Flores masculini multiores leviter praecociflori; pedicelli 1.5 ~ 6 cm longi, ca 1 mm crassi; corollae ellipticae amplitudine ca. 5 × 2.5 cm; tepala 4 cruciatim disposita, exterioribus 2 majoribus ovato - lanceolatis ca. 1.2 cm latis apice acutis inferne latioribus, subtus albo - tomentosis, quorum superiore brevior 2 ~ 2.3 cm longo, inferiore longior 2.5 ~ 2.6 cm longo, interioribus 2 minoribus amplitudine aequantibus, longe obovatis vel spathulatis apice obtuso - rotundatis ca. 1.2 × 0.6 cm, dilute suffusis; stamina numerosa sursum curvata ca. 6 mm longa, filamentis basi in androphorum con-

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natis, antheris obovoideis ca. 1 mm longis leviter complanatis, apice leviter concavis, bilocularibus, sacculis usque ad apicem utrinque longitrosus dehiscentibus. Flores feminei pedicellis ca. 3 cm longis, 1 mm crassis; tepala 5, masculino minora ampliludine $8 \sim 15 \times 4 \sim 8$ mm, exterioribus 2 majoribus ovato-lanceolatis apice acutis, subtus erectotomentosis, interiore minissimo obovato apice obtuso-rotundato. Ovarium roseum sparsim tomentellum inaequaliter tripartitum, triloculatum in quoque loculo segmentis placentae 2, stylis 3 omnino discretis, stigmatibus in v-formem divergentibus papillosis. Capsula ellipsoidea inaequaliter tripartita, ala majore triangulata ca. 1 cm longa, 0.8 cm lata apice horizontali, alis ceteris minoribus lunatis. Flores mense Septembris et Novembris aperti.

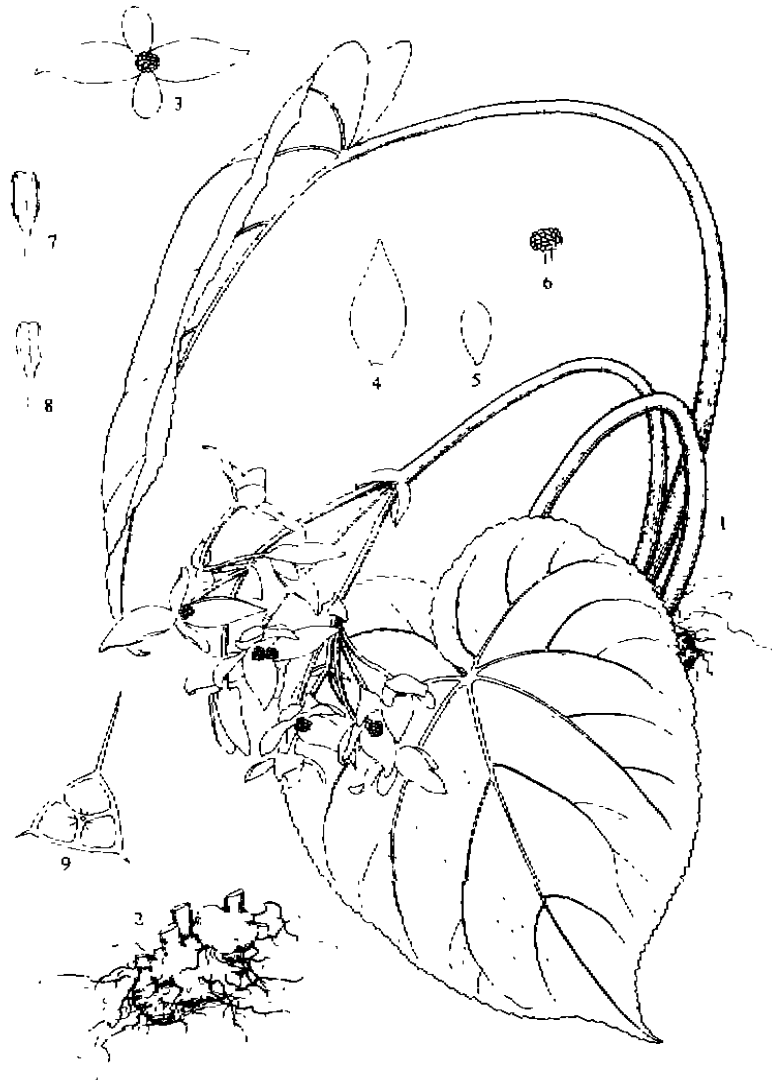


图1 尖被秋海棠

1. 植株; 2. 球茎; 3. 雄花; 4~5. 雄花被片; 6~8. 雄蕊; 9. 子房横切面。(杨建昆绘)

Fig.1 *Begonia acutepala* K. Y. Guan et D. K. Tian, sp. nov

1. habit; 2. corm; 3. male flower; 4~5. tepals of male flower; 6~8. stamens; 9. section of ovary.

Yunnan (云南): Maguan Xian (马关县), Dulong (都龙), Laojunshan (老君山), alt. 1600 m, X, 1998, in woods, Tian Daike (田代科) 9733 (Holotype in KUN).

本种与糙叶秋海棠 *B. asperifolia* Immscher 和心叶秋海棠 *B. labordei* Lévl 相近, 区别于前者的是花萼无叶, 叶片无小裂片或重锯齿, 外花被片卵状披针形, 顶端渐尖; 区别于后者的是花萼为典型的对称二歧分枝, 雌花被片 5, 其外面的 2 片具锐尖, 花柱全部分离。

长果秋海棠 新种 图 2

Begonia longicarpa K. Y. Guan et D. K. Tian, sp. nov. (Sect. *Sphenanthera*)

B. leprosa Hance affinis, sed foliis ovato-lanceolatis, basi obliquis inaequantibus, superne glabris, floribus femineis tepalis 3. Fructibus longioribus facile differt.

Herba perennis 15 ~ 30 cm alta. Rhizoma repens simplex vel ramigerum, 5 ~ 15 cm longum, 5 ~ 15 mm crassum, cinereo-tomentosum, internodiis inconspicuis. Folia basalia 3 ~ 6; laminae crassiusculae, superne laetae non symmetricae 9 ~ 15 cm longae, 5 ~ 13 cm latae, apice acuminatae, basi obliquae, latere majore cordato-decurrentes, cetero angustatae saepe non decurrentes, marginibus primum complanatis rubro-ciliatis, demum recurvatis; nervis 7 ~ 8 palmatis superne prominulis sursum in concavum sensim transientibus, subtus prominentibus suffusioribus; petioli obscure rubri teretiusculi canaliculati albido-vel rubro-tomentosi, 10 ~ 25 cm longi, 4 ~ 8 mm crassi. Scapi 2 usque aligot cum dichasio ca. 12 ~ 14 cm longi; pedunculi ca. 3 ~ 5 cm longi obscure rubri tomentulosi. Dichasium floribundum ramis floriferibus primis longioribus, ca. 5 ~ 6 cm longis, secundariis brevioribus. Bractae lanceolatae amplitudine ca. 9 × 3 mm, integrae. Flores monoecii candidi; Fl. ♂ multiores, leviter praecociflori longe viridulo-pedicellati, tepalis 4, cruciatim instructis, exterioribus 2 majoribus late ovatis, ca. 2 cm longis, 1 ~ 1.2 cm latis, apice obtusorotundatis, subtus sparsim tomentosis, interioribus 2 oblongis ca. 1.5 cm longis, 3 ~ 4 mm latis; stamina numerosa superne laxa, basi connata; Fl. ♀ brevipedicellati, tepalis 3, exterioribus majoribus late cordato-ovatis ca. 1.5 cm longis, 1 cm latis, basi cuneatis, interiore minore angustiore. Ovarium clavatum transversaliter triangulatum, basi in pedicellum sensim attenuatum, triloculatum, in quoque loculo segmentis placentae 2, stylis 3 discretis, stigmatibus 3, divaricatis. Fructus clavati in sicco 4 ~ 5 cm longi, ca. 5 ~ 6 mm lati. Flores mense Novemberi et Decemberi aperti.

Yunnan (云南): Hekou Xian (河口县), Nanxi (南溪), Mahuangbao (蚂蝗堡), alt. 90 m, in woods, XI, 1997, Tian Daike (田代科) 9729 (Holotype in KUN).

Vietnam (越南): Lao Cai (老街), Mawei (马尾), alt. 140 ~ 250 m, in woods, XII, 1964, Sino-Vietnam Exp. (中越队) 682, ibid. alt. 100 ~ 150 m, in woods, XII, 1964, Sino-Vietnam Exp. (中越队) 610 (KUN)

本种近于糙叶秋海棠 *B. leprosa* Hance, 但是叶为卵状披针形, 基部歪斜, 不等大, 上面光滑无毛, 雌花具 3 花被片, 果实较长而易于区别。



图2 长果秋海棠 1. 植株; 2. 花枝; 3. 果实; 4. 子房横切面。(刘怡涛绘)

Fig.2 *B. longicarpa* K.Y. Guan et D.K. Tian, sp. nov. 1. habit; 2. spray; 3. fruit; 4. section of ovary.

长翅秋海棠 新种 图3

Begonia longialata K. Y. Guan et D. K. Tian (Sect. *Platycentrum*)

B. macrotomae Irmischer proxima, sed glabris ad petiolum, caulem, rhachidem, pedicellumque maculis purpureis fusiformibus praeditis, floribus majoribus, fructibus, longe uni-alatis facile differt.

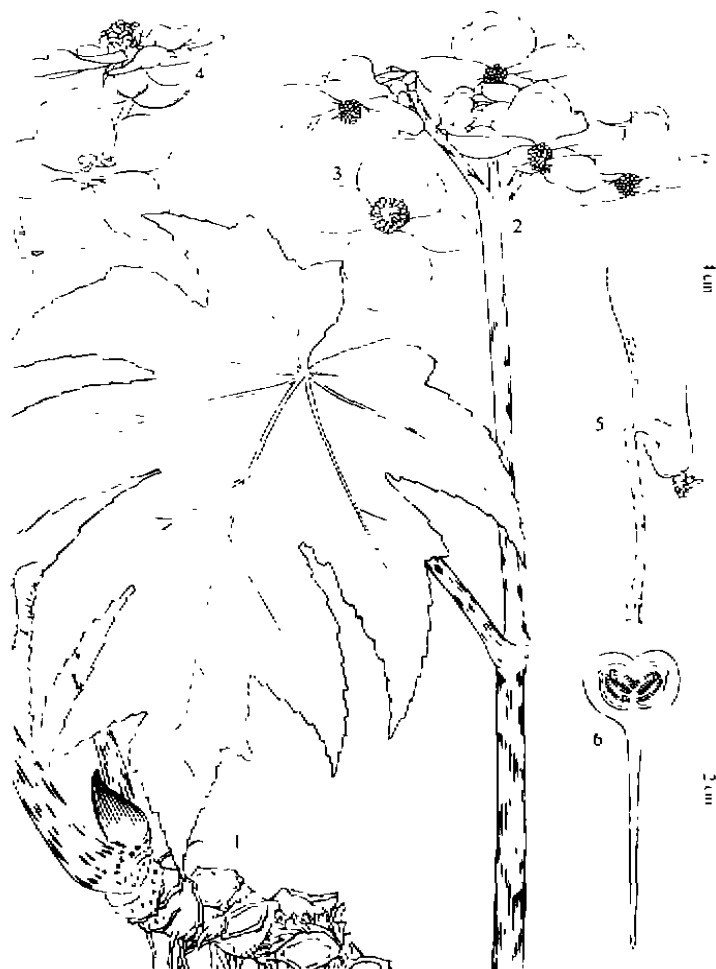


图 3 长翅秋海棠 1. 植株; 2. 花枝; 3. 雄花; 4. 雌花; 5. 果实; 6. 子房横切面。(刘怡涛绘)

Fig 3 *Begonia longulata* K. Y. Guan et D. K. Tian, sp. nov.

1. habit; 2. spray; 3. male flower; 4. female flower; 5. fruit; 6. section of ovary.

Herba perennis 40 ~ 60 cm alta, utique glabra, ad petiolum, caulem, rhachidem, pedicellumque maculis purpureis fusiformibus praedita. Rhizoma repens vel ascendens, 15 ~ 35 cm longum, 1.5 ~ 3 cm crassum, saepe ramosum, apice squamatibus aliquot rubellis triangulato-ovatis ca. 2.5 cm longi, 1.5 cm latis in medis crassioribus praeditum, internodiis inconspicuis. Caulis saepe 1, erectus vel ascendens ca. 40 ~ 50 cm longus, 0.8 ~ 2 cm crassus, superne 1 ~ 2 nodus et 1 ~ 3 foliatus. Folia basalia 2 ~ 5, petiolis lamina conspicue longioribus, 35 ~ 65 cm longis, 1 ~ 1.7 cm crassis, laminis crassiusculis succulentis fragilibus viridibus subtus rubello-virellis margine purpureis, ambitu subrotundatis, 24 ~ 44 cm longis, 24 ~ 41 cm latis, palmipartitis, basi cordato-decurrentibus, lobo medio leviter majoribus 12 ~ 15 cm longo, 8 ~ 15 cm lato, lobulis 5, apice acuminatis, ceteris paulo minoribus ad laterem exteriorum 1 ~ 2 crasso-serratis, nervis 8 ~ 10, palmatis utroque facie prominentibus. Folia caulina minora basalia similia, petiolis lamina aequalibus vel leviter brevioribus, laminis

13 ~ 29 cm longis, 12 ~ 29 cm latis. Inflorescentiae axillares dichasium formantos folium aequantes vel paulo altiores, floribus 11 ~ 23, pedunculis 8 ~ 20 cm longis, 4 ~ 7 mm crassis. Involucra 2, ovata ca. 2.5 cm longa. Bractae ovatae roseolae semilucidae ca. 1 cm longae. Flores masculini multiores leviter praeciolfiori; edicelli 2 ~ 5 cm longi, 2 ~ 3 mm crassi, altidi vel roseoli; corollae subrotundatae, amplitudine 3.9 ~ 5.5 × 3.5 ~ 5 cm, tepalis 4, exterioribus 2 majoribus subrotundatis, amplitudine 1.8 ~ 2.8 × 1.7 ~ 2.6 cm, albis in medio crassiusculis, margine roseolis expansis vel leviter recurvatis, interioribus 2 pure albis subspathulatis, amplitudine 1.6 ~ 2.5 × 1 ~ 1.6 cm. Stamina ca. 130 ~ 330, 5 ~ 8 mm longa, basi in androphorum 1 ~ 2 mm longum connatis, antheris obovaideis 1 ~ 1.5 mm longis, apice obtusis. Flores feminei minores; pedicelli 1.8 ~ 4.8 cm longi, ca. 2 mm crassi; corollae albae subrotundatae ca. 4 ~ 4.7 × 3.9 ~ 4.5 cm, tepalis 5, inaequantibus, omnibus obovatis, extimo amplitudine 1.9 ~ 2.3 × 1.6 ~ 1.8 cm, intimo 1.6 ~ 2.1 × 1.4 ~ 1.6 cm. Ovarium roseolum vel viridulum subrotundatum 2-loculatum interdum triloculatum, in quoque loculo segmentis placentae 2; ovulis numerosis; styli 2 vel 3, discreti cum stignate ca. 6 mm longi; stignata 2 vel 3, divaricata, branchiis 2, sursum in spiram bicyclicam contortis. Fructus obovodei virides leviter complanati ca. 1.6 ~ 1.8 cm longi, 1 cm lati, saepe biloculati inaequaliter 3-alati alis lateralis saepe inconspicuis vel evanescentibus, dorsifixo ligulato ca. 3 ~ 5 cm longo, 1.2 ~ 1.4 cm lato, primum roseo demum vivide. Flores mense Aug. usque Dec. apert.

Yunnan (云南): Gengma Xian (耿马县), Tian Daike (田代科) 98201 (Holotype in KUN), plants collected from Gengma Xian, cultivated in the greenhouse of Kunming Botanical Garden, Chinese Academy of Sciences.

本种极近似大裂秋海棠 *B. macrotoma* Imscher, 但是光滑无毛, 叶柄、茎、花序轴和花梗上具紫红色的纺锤形斑点, 花较大, 果实具 1 长翅而易于区别。

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