

国产金石斛属植物小志*

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TAXONOMIC NOTES ON CHINESE *FLICKINGERIA* (ORCHIDACEAE)

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Abstract Nine species and one variety of *Flickingeria* are diagnosed, including five new taxa: *F. tricarinata*, *F. calocephala*, *F. concolor*, *F. bicolor* and *F. tricarinata* var. *viridilamella*.

Key words Orchidaceae; *Flickingeria*

摘要 本文报道了产于我国的兰科金石斛属植物 9 种 1 变种,其中有 4 个新种和 1 新变种。

关键词 兰科;金石斛属

金石斛属

Flickingeria Hawkes in Orchid Weekly 2 (46): 451. 1961; Seidenf. in Dansk Bot. Ark. 34 (1): 9—67. 1980. — *Desmotrichum* Bl. Bijdr. : 329, t. 35. 1825. nom reject., non Kuetzing 1845. — *Ephemera* Hunt et Summerh. in Taxon 10 (1): 102. 1961.

属名模式: *Flickingeria angulata* (Bl.) Hawkes

本属约 70 种,主要分布于热带东南亚、菲律宾、新几内亚和大洋洲的一些群岛。我国迄今记录 10 种 1 变种,主要产于云南南部、海南岛、台湾、广西和贵州南部。关于该属拉丁名称的合法使用问题,在《植物分类学报》(Acta. Phytotax. Sin. 30 (3): 258. 1992)上已做了详尽讨论。本属是兰科分类学家公认的疑难分类群之一,其原因有两点:(a)属内多数种类的营养体态、花序状态(束生于叶腋或叶基外侧,常具 1—2 朵小花)和花的外形非常一致。(b)花期很短暂,通常日出后开放而午后凋谢,难于采到花标本。馆藏带花标本,也常因为花的质地太薄制作后难于进行解剖观察和鉴别。

* 美国地理学会基金资助课题成果之一。

This is the first report of the project "On investigation of orchid resources in tropical southwestern China" supported by the National Geographic Society, U. S. A.

本文作者于1991—1992年间在调查我国云南南部热区(西双版纳)兰科植物资源的过程中,对本属类群进行了比较细致的采集和野外观察,发现它们的花期较一致,均在6月下旬第一次开花,多数种类的同一花序上的花第一次开放凋谢后,间隔一段时间尚能开第二次,甚至第三次。通过野外观察和室内标本的整理、比较,笔者认为属内不同种类的主要分类依据是花的颜色、唇瓣的形状和结构。根据现有的资料,我国有下列种类。

1 狹叶金石斛 图1:4

Flickingeria angustifolia (Bl.) Hawkes in Orchid Weekly 2 (46): 452. 1961; Seidenf. in Dansk Bot. Ark. 34 (1): 57. f. 24. 1980; S. C. Chen in Acta Phytotax. Sin. 30 (3): 260. 1992. — *Desmotrichum angustifolium* Bl. Bijdr.: 330. 1825. — *Dendrobium angustifolium* (Bl.) Lindl. Gen. Sp. Orchid. Pl. 76. 1830. — *Ephemerantha angustifolia* (Bl.) Hunt et Summerh. in Taxon 10 (4): 102. 1961.

叶狭窄,宽约1cm;萼片和花瓣淡黄色带褐紫色条纹,萼囊与子房几乎成直角;后唇的侧裂片前端近圆形,除边缘浅白色外,紫色;中唇很短,紫色;前唇桔黄色,深2裂,裂片近倒卵形,褶片3条,较平直,从后唇基部延伸到中唇的中部。

Hainan(海南): Wuzhi Mt. (五指山), L. Deng (邓良) 458; Hainan Exped(海南队) 511 (PE)。分布于中南半岛、马来西亚至印度尼西亚。模式标本产印度尼西亚。

2 滇金石斛 图1:1—2

Flickingeria albopurpurea Seidenf. in Dansk Bot. Ark. 34 (1): 48. f. 18. 1980; S. C. Chen in Acta Phytotax. Sin. 30 (3): 260. 1992.

萼片和花瓣白色;萼囊与子房成直角,顶端外侧淡黄色;后唇的侧裂片白色并密布紫红色斑点;中唇白色,边缘波状;前唇扇形,两侧靠拢而直立,白色,基部两侧边缘皱波状;褶脊2条,密布紫红色斑点,从后唇基部延伸至中唇中部,在后唇的褶脊平直,在中唇上变宽,并且皱波状,深紫色;蕊柱正面白色密布淡紫色斑点,药帽白色。花期6月下旬至7月下旬。

Yunnan(云南); Mengla(勐腊), alt. 800—1200 m, Z. H. Tsi (吉占和) 05, 08, 185, 91-719 (PE); Jinghong(景洪) Z. H. Tsi (吉占和) 251, 389 (PE)。分布于泰国,越南。模式标本产泰国。

3 金石斛 图1:3

Flickingeria comata (Bl.) Hawkes in Orchid Weekly 2 (46): 453. 1961. — *Desmotrichum comata* Bl. Bijdr.: 330. 1825. — *Dendrobium comatum* (Bl.) Lindl. Gen. Sp. Orchid. Pl. 76. 1830. — *Dendrobium fimbriatolabellum* Hayata, Icon. Pl. Form. 4: 38. f. 136. 1914. — *Desmotrichum fimbriatolabellum* Hayata, l. c. — *Ephemerantha comata* (Hayata) Hunt et Summerh. in Taxon 10 (4): 102. 1961; T. S. Liu et H. J. Su in Fl. Taiwan 5: 928. 1978.

该种的前唇边缘分裂呈流苏状。易与本属其他种区别。

仅见于台湾(台东、恒春), A. Hashimoto 85-A (PE)。

4 卵唇金石斛 尖叶暂花兰

Flickingeria tairukounia (Ying) Lin, Nat. Orchid. Taiwan 3: 85—86 (t).

1987. — *Ephemeraanthia tairukounia* Ying in Quart. Journ. Chi. For. 11 (2): 103. f. 2.
 1978. — *Dendrobium pallens* auct. non Ridley; Hsieh A-tsai in Quart. Journ. Taiwan
 Mus. 8: 329. 1955.

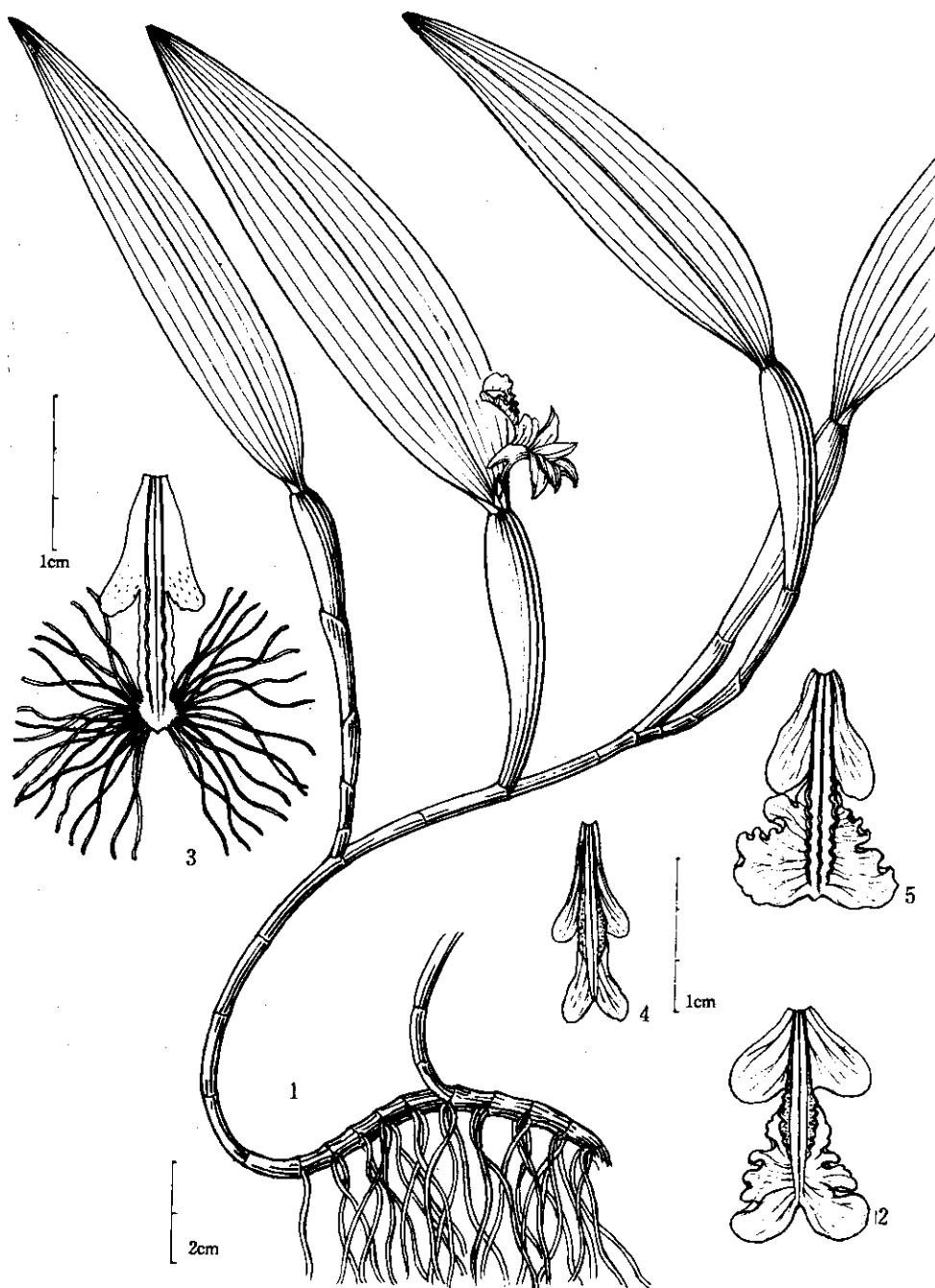


图 1 1—2. 滇金石斛 1. 植株; 2. 唇瓣; 3. 金石斛的唇瓣; 4. 狹叶金石斛的唇瓣; 5. 流苏金石斛的唇瓣。(张泰利绘)
 Fig. 1 1—2. *Flickingeria albopurpurea* Seidenf. 1. plant; 2. lip; 3. lip of *F. comata*; 4. lip of *F. angustifolia*; 5. lip of *F. fimbriata*.

花白色,仅萼片带紫斑点,唇瓣卵圆形,不分前后唇,上面无任何突起。花期5月。我们未见到标本,从林赞标先生的图(1987:86)来看,无疑是个好种。记载仅见于台湾(花莲太鲁阁和台东知本山一带),生于海拔100—1000 m的岩壁杂林内。

5 流苏金石斛 图 1:5

Flickingeria fimbriata (Bl.) Hawkes in Orchid Weekly 2 (46): 454. 1961; Seidenf. in Dansk Bot. Ark. 34 (1): 21. f. 4. 1980. — *Dendrobium fimbriatum* (Bl.) Lindl. Gen. Sp. Orchid. Pl.: 76. 1830, non Hook. (1823). — *Ephemerantha fimbriata* (Bl.) Hunt Summerh. in Taxon 10 (4): 103. 1961; Icon. Corm. Sin. 5: 707. f. 8244. 1976, p. p.; Tang et S. C. Chen in Fl. Hainan. 4: 225. f. 1106. 1977.

萼片和花瓣奶黄色带淡褐色或紫红色斑点;萼囊狭窄,与子房成锐角;唇瓣奶黄色,后唇的侧裂片内侧密布淡褐色或紫红色斑点;中唇不甚明显,前唇两侧靠拢而直立,边缘皱波状;褶脊3条,淡黄白色,从后唇基部延伸到前唇先端,褶脊在前唇上明显波状。花期4—6月。

Hainan (海南): Diaolu Mt. (吊罗山), Diaolu Exped. (吊罗山队), 2581 (PE); Baoting (保亭), F. C. How (侯宽昭) 2878 (PE)。此外来自贵州(兴义),云南(建水、西畴、麻栗坡),广西(靖西)等地的标本可能为本种,但均无花,有待进一步研究。

6a 三脊金石斛 新种 图 2:1—2

Flickingeria tricarinata Tsi et S. C. Chen, sp. nov.

Species nova floribus flavidis et epichilio transverse oblongo a congeneris differt.

Epiphytica; rhizoma crassum, 4—7.5 cm longum inter caules, 4—6 mm in diametro, 7-nodum, internodiis 5—10 mm longis. Caules aurati, dissiti in rhizomate, plerumque ramosi, is hornotinus e latere apicis caulis annotini, subter pseudobulbum primum ca. 6—10 cm longi et 3—5-nodi. Pseudobulbi aurati, ex apice caulis prodientes, compresse fusiformes, 4.5—6.5 cm longi, medio 8—15 mm lati, apice unifolii, Folium anguste ovato-lanceolatum, 11.5—12 cm longum supra basin 2.5 cm latum, apice acuminatum et paulo retusum. Inflorescentia axillaris vel e latere baseos folii extensa plerumque uniflora; pedunculo ca. 5 mm longo, vaginis cespitosis squamiformibus obtecto; bractea ovato-triangulata, 2.5 mm longa, 1.5 mm lata, apice acuta; pedicello cum ovario ca. 6 mm longo. Flos flavidus; sepalo intermedio ovato-oblongo, 14 mm longo, medio 5 mm lato, supra medium plus minusve recurvo, apice acuto, 5-nervio et transverse nervuloso inter nervos, eis lateralibus ovato-triangulatis, supra medium recurvis intermedio subaequilongis, basi obliquis et latioribus, apice acutis, 5-nerviis et transverse nervulosis inter nervos; mento ca. 6 mm longo, cum ovario angulum obtusum formante; petalis oblongis 10 mm longis, 3.2 mm latis, apice acutis 3-nerviis et nervulosis inter nervos; labello ambitu obovato, 12 mm longo, trilobo, lobis lateralibus (in hypochilio) suberectis, ovato-triangulatis, 5 mm longis, ca. 4 mm latis, apice orbiculatis in statu explanato ca. 12 mm latis inter eorum apices; mesochilio (inter epichilium et hypochilium) manifesto, 3 mm longo, 4 mm lato, margine plus minusve undulato; epichilio plus minusve v-formo in vivo, transverse oblongo subintegro in statu ex-

planato, ca. 2.5 mm longo, 10 mm lato; lamellis 3 strictis in hypochilio, eis lateralibus brevioribus altioribus crispis inter frontem hypochilia et basin epichilia, ea media longiore (ad apicem epichilia) demissiore, supra medium undulata; columna crassa, ca. 4 mm longa,

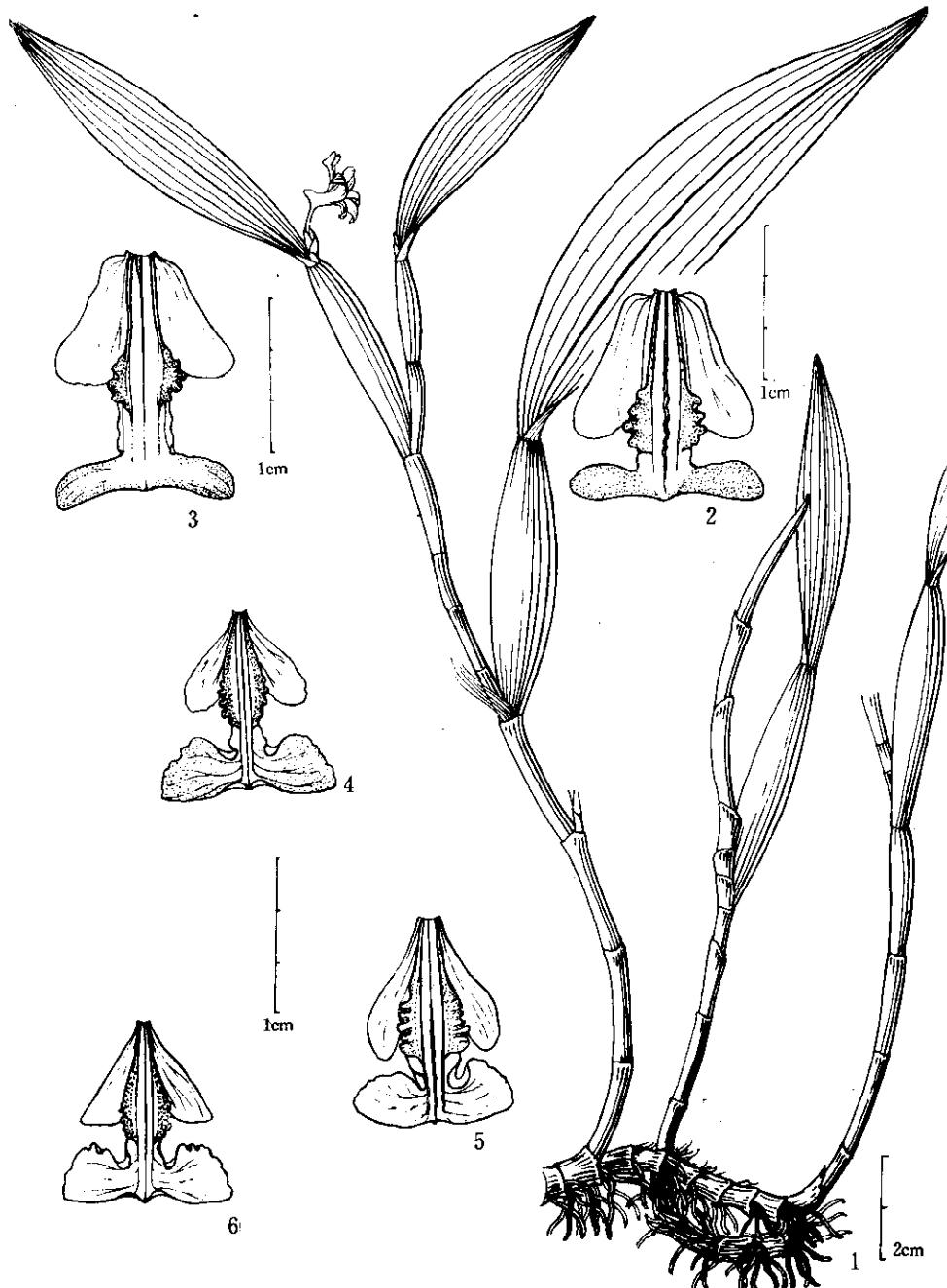


图 2 1—2. 三脊金石斛 1. 植株；2. 唇瓣；3. 绿脊金石斛的唇瓣；4. 红头金石斛的唇瓣；5. 同色金石斛的唇瓣；6. 二色金石斛的唇瓣。(张泰利绘)

Fig. 2 1—2. *Flickingeria tricarinata* Tsi et S. C. Chen 1. plant; 2. lip; 3. lip of *F. tricarinata* var. *viridilamella*; 4. lip of *F. calocephala*; 5. lip of *F. concolor*; 6. lip of *F. bicolor*.

basi in pedem ca. 5 mm longum producta; operculo antherae antice truncato margine denticulato. Pollinia cerea 4.

Yunnan (云南): Mengla (勐腊), alt. 800 m, on tree in forest, 1991-06-29, Z. H. Tsi (吉占和) 91-719 (holotypus, PE)

本种的花纯淡黄色,前唇横长圆形,近全缘,可区别于本属其他种。

6b 绿脊金石斛 新变种 图 2:3

Flickingeria tricarinata Tsi et S. C. Chen var. **viridilamella** Tsi et S. C. Chen, var. nov.

Haec varietas a typo mesochilio longiore, ca. 4.5 mm longo, lamellis 2 margine chlorinis differt.

Yunnan (云南): Mengla (勐腊), alt. 900 m, on tree in forest, 1991-06-29, Z. H. Tsi (吉占和) 91-718 (holotypus, PE)

本变种与原变种(var. *tricarinata*)的主要区别在于中唇较长,长约4.5 mm,褶脊2条,其上缘淡绿色。

7 红头金石斛 新种 图 2:4

Flickingeria calocephala Tsi et S. C. Chen, sp. nov.

Species nova sepalis et petalis pallide citrinis, supra medium valde recurvis, labello rubro a congeneris diversa.

Planta epiphytica; rhizoma 5.5—10 cm longum inter caules, 5—6 mm in diametro, 7—10-nodum, internodiis ca. 1 cm longis. Caules duri, aurati, distantes in rhizomate, ramosi, is hornotinus e latere apicis caulis annotini, subter pseudobulbum primum ad 12.5 cm longi. Pseudobulbi subcylidraci, aurati, ex apice caulis prodientes, 4—6.3 cm longi, 7—9 mm lati, apice unifolii. Folium anguste oblongum, 8.5—12.5 cm longum, medio 1.4—1.6 cm latum, apice acuminatum. Inflorescentia axillaris vel ex latere baseos folii exiens, plerumque 1—2-flora; pedunculo ca. 5 mm longo, vaginis cespitosis squamiformibus obtecto; bractea ovato-triangulata, 1.5 mm longa, apice acuta; pedicello cum ovario flavo, 4 mm longo; sepalis et petalis pallide citrinis, supra medium valde recurvis; sepalo intermedio ovato-oblongo, 1.5 cm longo, medio 3.5 mm lato, apice acuto, 5-nervio, eis lateralibus ovato-triangulatis 1.5 cm longis, apice acutis, basi obliquis et latioribus, 4—5-nerviis; mento cum ovario angulum obtusum formante; petalis anguste oblongis, 9 mm longis, medio 2 mm latis, apice acutis, 5-nerviis; labello ambitu obovato, basi cuneato, 12 mm longo, lobis lateralibus (in hypochilio) pallide rubro suberectis, apice orbiculatis, in statu explanato 7 mm latis inter eorum apices; mesochilio manifesto subcuneato ca. 4 mm longo, margine plus minusve undulato; epichilio rubro plus minusve v-formi in vivo, subflabelliformi in statu explanato, 10 mm lato; lamellis testaceis 2 e basi hypochili ad basin mesochili, plus minusve undulatis in hypochilio et crispis in basi mesochili; columna 3 mm longa, basi in pedem 5 mm longum producta; operculo antherae antice subtruncato et margine denticulato. Pollinia cerea 4.

Yunnan (云南): Jinghong (景洪), alt. 1200 m, on tree in forest, 1991-06-28, Z. H. Tsi (吉占和) 91-720 (holotypus, PE).

本种以其萼片和花瓣强烈反卷, 柠檬黄色, 唇瓣红色, 可区别于本属其他种。

8 同色金石斛 新种 图 2:5

Flickingeria concolor Tsi et S. C. Chen, sp. nov.

Haec species ambitu et structura floris affinis *F. albopurpureae* Seidenf. et *F. bicolor* Tsi et S. C. Chen, racemo unifloro, flore minore pure albo; labelli lobis lateralibus oblongis, apice orbiculatis differt.

Epiphytica; rhizoma durum, ca. 3.5 cm longum, 7 mm in diametro, 6-nodum, internodiis 3—6 mm longis. Caules cespitosi, penduli, duri, aurati, ca. 30 cm longi, 3—4 mm in diametro, plerumque ramosi, multinodi. Pseudobulbi aurati, ex apice caulis prodi- entes, anguste fusiformes, compressi, 5.5—6 cm longi, medio 8—13 mm lati, apice unifoli. Folium elliptico-lanceolatum, 11—12 cm longum, medio 1.4—2.2 cm latum, apice subacutum et plus minusve retusum, multinerve. Inflorescentia axillaris vel ex latere baseos folii exiens, plerumque uniflora; flore pure albo; pedunculo ca. 5 mm longo, vaginis cespitosis squamiformibus obtecto; bractea perparva, late ovato-triangula, 1 mm longa, apice acuta; pedicello cum ovario 5 mm longo; sepalo intermedio ovato-lanceolato, 8 mm longo, medio 4 mm lato, apice acuto, 7-nervio et transverse paucinervuloso inter nervos, eis lateralibus oblongo-lanceolatis, 8 mm longis, apice acutis, basi obliquis latioribus, 7-nerviis et transverse paucinervulosis inter nervos; mento apice obtuso, cum ovario angulum obtusum formante; petalis anguste oblongis, 10 mm longis, medio 2.5 mm latis, apice acutis 3-nerviis et transverse paucinervulosis inter nervos; labello 1 cm longo, trilobo, lobis lateralibus (in hypochilio) suberectis oblongis, ca. 6 mm longis, 2 mm longis, 2 mm latis apice orbiculatis; mesochilio manifesto, margine plus minusve undulato; epichilio v-formi in vivo, flabelliformi in statu explanato, lobis lateralibus (in hypochilio) subaequilato, margine prope basin criso; lamellis 2, e basi ad medium mesochili, strictis (in hypochilio) et plus minusve crispis et altioribus (in mesochilio); columna crassa, 3 mm longa, basi in pedem 5 mm longum producta; operculo antherae antice truncato margine denticulato. Pollinia cerea 4.

Yunnan (云南): Jinghong (景洪), alt. 1600 m, on tree in forest, 1991-06-29, Z. H. Tsi (吉占和) 91-21 (holotypus, PE).

本新种在植株体态和花的结构上与 *F. albopurpurea* Seidenf. 和 *F. bicolor* Tsi et S. C. Chen 十分相似, 区别在于本种的花通常单生, 花纯白色, 后唇的侧裂片长圆形, 先端圆形。

9 二色金石斛 新种 图 2:6

Flickingeria bicolor Tsi et S. C. Chen, sp. nov.

Species nova *F. albopurpureae* Seidenf. subsimilis, coloribus in sepalis et labello bene differt.

Herba epiphytica. Rhizoma crassum, 1—2 cm longum, 5—7 mm in diametro, 3—4-

nodum, internodiis 3—6 mm longis. Caules subcespitosi, duri, aurati, laevigati, ad 35 cm longi, 3—7 mm in diametro, plerumque ramosi, multinodi, is hornotinus ex latere apicis caulis annotini. Pseudobulbi ex apice caulis aurati prodientes, plus minusve fusiformes, compressi, 3.5—5 cm longi, 13—17 mm lati, apice unifolii. Folium coriaceum, elliptico-lanceolatum, 12.5—13.5 cm longum, medio 17—23 mm latum, apice subacutum et paullo retusum, multinervium. Inflorescentia axillaris vel ex latere baseos floi exiens, 1—5-flora; pedunculo brevissimo ca. 3 mm longo, vaginis cespitosis squamiformibus obtecto; bractea o-vato-lanceolata, 1.5—3 mm longa; pedicello cum ovario luteolo, ca. 5 mm longo; sepalo intermedio albo, subter medium maculis purpureo-rubris dense ornato, oblongo, 12—15 mm longo, medio 4—5 mm lato, fere concavo, apice acuto, 5—6-nervio et transverse nervuloso inter nervos, eis lateralibus albis et purpureo-rubro-maculosis, oblongo-lanceolatis, ei intermedio subaequilongis, sed basi obliquis et latioribus, apice acutis, 5—6-nerviis et transverse nervulosis inter nervos; mento luteolo, ca. 5 mm longo, apice obtuso, cum ovario angulum obtusum formante; petalis albis, oblongis, 10 mm longis, 3 mm latis, apice acutis, 3-nerviis et transverse nervulosis inter nervos; labello ambitu obovata, basi cuneato, 1.2 cm longo, trilobo, lobis lateralibus (in hypochilio) suberectis ovatis, 8 mm longis, ca. 3 mm latis, apice subobtusis; mesochilio (in basi epichilii) manifesto, margine undulato; epichilio albo v-formi in vivo, flabelliformi in statu explanato lobis lateralibus (in hypochilio) subaequilato, margine prope basin criso; lamellis 2, e basi ad medium mesochilii, strictis (in hypochilio), altioribus et crispis (in mesochilio), supra luteolis, subter purpureo-rubris; columna crassa, 3 mm longa, antice et basi purpureo-rubro, basi in pedem 6 mm longum producta; operculo antherae antice truncato et margine denticulato. Pollinia cerea 4.

Yunnan (云南): Mengla (勐腊), alt. 900 m, on tree in forest, 1991-06-29, Z. H. Tsi (吉占和) 91-716 (holotypus, PE).

本新种酷似于 *F. albopurpurea* Seidenf. 但中萼片白色, 在中部以上密布紫红色斑点; 侧萼片白色, 全体密布紫红色斑点; 花瓣纯白色, 唇瓣白色, 仅褶脊上缘淡黄色, 下部紫红色。