

广西单子叶植物五新种

方 鼎 覃德海

(广西中医药研究所, 南宁 530022)

FIVE NEW SPECIES OF MONOCOTYLEDONEAE FROM GUANGXI

Fang Ding Qin Dehai

(Guangxi Institute of Traditional Medical & Pharmaceutical Sciences, Nanning 530022)

关键词 仙茅科; 球序仙茅; 兰花蕉科; 长萼兰花蕉; 姜科; 裂舌姜; 少斑姜; 长腺姜

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仙茅科 Hypoxidaceae

球序仙茅 新种

Curculigo strobiliformis D. Fang et D. H. Qin, sp. nov.

Species *C. Capitulatae* (Lour.) O. Ktze. proxima, sed folii lamina coriacea, c. 19~20 cm lata; racemo strobiliformi, longe ovoideo, usque ad 14 cm longo; bracteis 2.5~7 cm longis; pedicellis 3~4 mm longis, perianthii segmentis 14 mm longis; filamentis 3 mm longis, antheris 7 mm longis differt.

Herba perennis, usque ad 1.9 m alta. Folia basilaria; laminae coriaceae, obalnceolatae c. 102~108 cm longae, c. 19~20 cm altae, apice acuminatae, basi cuneatae, margine integrae, supra subglabrae, subtus ad nervos sparsim villosae, plicato-nervis lateralibus utrinsecus 8~11 utrinque prominulis; petioli validi, 79~82 cm longi, 6~9 mm lati, intus sulcati, versus basin sensim dilatati, basi uaque ad 4 cm lati, extus dense tomentosi infime ferrugine scent. Scapus ex axillis foliorum ortus, validus, compresso-teres, 33~37 cm longus, 4~8(~13) mm altus, dense ferrugineo-fusco-tomentosus; racemus strobiliformis, longe ovoideus, 12.5~14 cm longus, 4~5 cm in diam. (bracteis exceptis), pendulus, floribus multis confertis; bractee anguste triangulato-lanceolatae vel lanceolatae, 2.5~7 cm longae, 7~13 mm latae, sursum decrescentes, apice acuminatae, margine dense subtus sparsim fusco-tomentosae, plicato-nervis; flores lutei; pedicellis validis 3~4 mm longis cum ovariis extus dense ferrugineo-fusco-tomentosis; perianthii segmenta 6, subaequalia, oblongo-elliptica, 14 mm

longa, 4 mm lata, apice obtusa, extus ad costas ferrugineo-fusco-tomentosa; stamine 6 ad basin segmentorum intus affixa, longitudine 2/3 segmentorum partes aequantia, filamentis 3 mm longis glabris, antheris 2-locularibus linearibus 7 mm longis basi 2-lobatis basifixis, connectivis paulo exsertis; ovarium ovoideo-oblongum, 8 mm longum, 3.5 mm in diam., inferum, 3-loculare, placentatione axiali, apice erostratum, stylo tereti glabro 11 cm longo, stigmatibus capitellato paulo 3-lobato.

Guangxi (广西): Napo (那坡), Baidu (百都), Nunghua (弄化), in forest of limestone hill, alt. 1 110 m, 1981-05-05, Fang Ding, Qin Dehai and Wang Zhengang (方鼎、覃德海和王振刚) 25141 (holotypus, GXMI).

多年生草本，高达 1.9 m。叶基生；叶片革质，倒披针形，长约 102~108 cm，宽约 19~20 cm，先端渐尖，基部楔形，边全缘，上面近无毛，下面脉上疏被长柔毛，折扇状脉每边 8~11 条，在两面隆起；叶柄粗壮，长 79~82 cm，宽 6~9 mm，内面具槽，向下逐渐扩大，基部宽达 4 cm，背面密被绒毛，最下部毛变锈色。花葶自叶腋抽出，粗壮，扁圆柱形，长 33~37 cm，宽 4~8 (~13) mm，密被锈棕色绒毛；总状花序球果状，长卵球形，长 12.5~14 cm，粗 4~5 cm (苞片除外)，低垂，具多数排列密集的花；苞片狭三角状披针形至披针形，长 2.5~7 cm，宽 7~13 mm，向上渐小，先端渐尖，边缘密被背面疏被棕色绒毛，具折扇状脉；花黄色；花梗粗壮，长 3~4 mm，和子房密被锈棕色绒毛；花被裂片 6，近等大，长圆状椭圆形，长 14 mm，宽 4 mm，先端钝，外轮 3 枚背面、内轮 3 枚背面仅中脉被锈棕色绒毛；雄蕊 6 枚，生于花被裂片内面基部，长为花被裂片的 2/3，花丝长 3 mm，无毛，花药 2 室，线形，长 7 mm，基部 2 裂，基着，药隔稍突出；子房卵状长圆形，长 8 mm，粗 3.5 mm，下位，3 室，中轴胎座，先端无喙，花柱圆柱状，无毛，长 11 mm，柱头近头状，稍 3 裂。花期 4~5 月。

本种与大叶仙茅 *C. capitulata* (Lour.) O. Ktze. 很接近，但叶片革质，宽约 19~20 cm；总状花序球果状，长卵球形，长达 14 cm；苞片长 2.5~7 cm；花梗长 3~4 mm；花被裂片长 14 mm；花丝长 3 mm，花药长 7 mm 而不同。

兰花蕉科 Lowiaceae

长萼兰花蕉 新种

Orchidantha longisepala D. Fang, sp. nov. — *O. chinensis* T. L. Wu in Fl. Reip. Pop. Sin. 16(2): 20. 1981, p. p., quoad pl. Guangxi, et 中国珍稀濒危植物 234. 1989, p. p., quoad pl. Guangxi, et Fl. Guangdong 2: 399. 1991, p. p., et 中国植物红皮书 1 • 466. 1992, p. p., quoad pl. Guangxi cum photo; auct. non T. L. Wu; Z. F. Wu in Guihaia 11(3): 229. 1991.

Species *O. chinensi* T. L. Wu proxima, quae flore minore, solitario; sepalis 9.5 cm longis, 1.5~2 cm latis; labello angusto-lineari, 9 cm longo, basi 8 mm lato, plano; petalis lateralibus 2 cm longis; stigmatibus lobis in dorso medio processu cymbiformi differt.

Herba perennis, usque ad 1 m alta, praeter radices glabra; rhizoma repens, simplex raro ramiferum, compresso-teres, c. 7~20 cm longum, usque ad 2 cm in diam., dense nodosum, radicibus robustis apicem versus in tubera fusiformia incrassatis. Folia basalia, disticha, c. 6~10; laminae in sicco chartaceae, longe ellipticae, 16~56 cm longae, 5.5~11 cm latae, apice acuminatae, basi attenuatae leviter inaequilaterales, integrae, costis subtus elevatis, nervis

lateralibus utrinsecus c. 5~8, venulis transversalibus numerosis 1~2 mm inter se distantibus in areolas quadrangulares digestas utrinque in sicco manifestis; petioli cum vaginis 11~50 cm longi, supra sulcati, basi leviter ampliati, vaginis 8~20 cm longis, Flores saepe 2, atropurpurei, e rhizomate nascentes; bractee longe ellipticae vel lanceolatae, albae, virides vel atropurpureae, 6.5~10 cm longae; sepala 3, oblongo-lanceolata, 12~17 cm longa, basi 1.9~3.2 cm lata, apice acuminata; labellum angustotriangulare, sepala fere aequilongum, basi 2~2.3 cm latum, supra medium leviter ampliatus, dense purpureo-fusco-punctatus, margine revolutum, nervis subplicatis et costa robusta apice in rostrum prolongata; petala lateralibus 2, oblonga, 2.8~3.2 cm longa, 8~9 mm lata, obliqua, apice acuminata vel aristata; stamina 5, 13~15 mm longa, antheris c. 8 mm longis, connectivis ultra loculos productis; ovarium cum extensione 2.5~4 cm longum, albidum, inferum, triloculare, stylus linearis, albidus, c. 10~13 mm longus, stigmatibus fusco apice denticulato tripartito, lobo medio 9~11 mm longo, lateralibus 6~8 mm longis basibus anticis processu albido V-formi praeditis.

Guangxi (广西): Shangsì (上思), Baibao (百包), Nadang (那荡), Shiwandashan (十万大山), in forest, alt. 370 m, 1975-03-09, D. Fang and X. X. Chen (方鼎和陈秀香) 35125 (holotypus, GXMT; isotypi, PE, IBSC, IBK); same locality, Wei Shangxin (韦善新) 35185.

多年生草本, 高达 1 m, 除根外无毛; 根状茎匍匐生根, 单一, 稀分枝, 扁圆柱形, 长 7~20 cm, 粗达 2 cm, 密生环节; 根粗壮, 近先端膨大呈纺锤状。叶基生, 2 列, 约 6~10 枚; 叶片纸质, 长椭圆形, 长 16~56 cm, 宽 5.5~11 cm, 先端渐尖, 基部渐狭, 两侧稍不等, 全缘, 中脉于背面隆起, 侧脉每边约 5~8 条, 网脉方格状, 干时明显; 叶柄连鞘长 11~50 cm, 上面有槽, 基部稍扩大, 鞘长 8~20 cm。花常 2 朵, 暗紫色, 自根状茎上抽出; 苞片长椭圆形至披针形, 白色, 绿色或暗紫色, 长 6.5~10 cm; 萼片 3, 长圆状披针形, 长 12~17 cm, 基部宽 1.9~3.2 cm, 先端渐尖; 唇瓣狭三角形, 与萼片几乎等长, 基部宽 2~2.3 cm, 上部稍扩大, 密布紫棕色小斑点, 背卷, 具近折扇状脉, 中脉粗壮, 先端延伸成喙状; 侧生花瓣 2 枚, 长圆形, 长 2.8~3.2 cm, 宽 8~9 mm, 偏斜, 先端渐尖于芒状; 雄蕊 5, 长 13~15 mm, 花药长约 8 mm, 药隔先端突出; 子房连先端延长部分长 2.5~4 cm, 带白色, 下位, 3 室, 花柱线状, 白色; 长约 10~13 mm, 柱头棕色, 先端具短细齿, 3 深裂, 中裂片长 9~11 mm, 2 枚侧裂片长 6~8 mm, 基前方基部具 1 白色“V”字形突起。花期 2~3 月。

本种与兰花蕉 *O. chinensis* T. L. Wu 颇接近, 但那种花小, 单生; 萼片长 9.5 cm, 宽 1.5~2 cm; 唇瓣狭线形, 长 9 cm, 基部宽 8 mm, 平展; 侧生 2 枚花瓣长 2 cm; 柱头裂片背部具船形突起。

姜科 Zingiberaceae

裂舌姜 新种

Zingiber bisectum D. Fang, sp. nov.

Affine *Z. monglaensi* Senjen et Z. Y. Chen, quod ligula 4.5~8 cm alta, bilobata vel bifida; bractea obovata; bracteola tubulari; corollae tubo 2.7 cm longo; ovario glabro differt.

Herba perennis, rhizomate tuberoso intus dilute flavo, radicibus interdum apicem versus in tubera fusiformia incrassatis. Caulis foliatus usque ad c. 3.4 m altus. Folia c. 10~30 ;

lamina oblongo-oblancoata vel suboblonga, usque ad c. 85 cm longa, 4.5~10 cm lata, apice acuminata, basi attenuata, integra, supra dense purpureo-fusco-glanduloso-punctata, secus costas et subtus omnino sparsim adpresso-villosa; petiolus 0~5 mm longus, extus adpresso-villosus; ligula subscariosa, extus cum vagina sparsim adpresso-villosa, in lobos duos subtriangulatos 1~6 (saepc c. 4) cm altos et basi 10 mm latos divisa. Spica ovoidea vel suboblonga, 7~10 cm longa, 2.5~7 cm in diam, multiflora, pedunculo e rhizomate prodienti 2~12.5 cm longo debili; bractea rubra vel viridula, oblonga, 4~4.5 cm longa, c. 11 mm lata, extus cum pedunculo, bracteola, calyce, corolla plus minusve adpresso-villosa, uniflora; bracteola oblonga, 3.5~4 cm longa, 7 mm lata; calyx c. 2 cm longus, unilateraliter fissus, apice tridentatus; corollae tubus albus, 4~4.7 cm longus, lobis flavis, lateralibus lanceolatis 2.3 cm longis 5 mm latis, dorsali 2.5 cm longo 8~9 mm lato; labellum atrc purpureo-maculatum, lobo medio obvato 20 mm longo 13 mm lato apice tridentato, lateralibus (staminodiis lateralibus) 10 mm longis 7 mm latis; anthera 15 mm longa, fere sessilis, crista 12 mm longa; ovarium dense adpresso-villosum, stylo 6.5 cm longo, stigmate ciliato; glandes epigynae 2, acerosae, 5 mm longae.

Guangxi (广西): Yongning (邕宁), Jiutang (九塘); Kunlun (昆仑关), on hillslopes, alt. 260 m, 1975-08-08, D. Fang (方鼎) 17878 (holotypus, GXMI).

多年生草本; 根状茎块状, 内面稍带黄色; 根末端有时膨大呈纺锤状。茎高约达 3.4 m。叶约 10~30 枚; 叶片长圆状倒披针形, 或近长圆形, 长约达 85 cm, 宽 4.5~10 cm, 顶端渐尖, 在部渐狭, 全缘, 上面密布紫褐色小腺点, 沿中脉和背面疏被长伏毛; 叶柄长 0~5 mm, 外被长伏毛; 叶舌近干膜质; 2 全裂, 裂片近三角形, 高 1~6 (通常约 4) cm, 基部宽约 10 mm, 外面连叶鞘疏被长伏毛。穗状花序卵球形或近长圆状, 长 7~10 cm, 粗 2.5~7 cm, 多花; 花序梗自根状茎抽出, 长 3~12.5 cm, 柔弱; 苞片红色或绿色, 长圆形, 长 4~4.5 cm, 宽约 11 mm, 外面连同花序梗、小苞片、花萼和花冠或多或少被长伏毛, 每苞内有花 1 朵; 小苞片长圆形, 长 3.5~4 cm, 宽 7 mm; 花萼长约 2 cm, 1 裂开裂; 顶端具 3 齿; 花冠管白色, 长 4~4.7 cm, 裂片淡黄色, 侧裂片披针形, 长 2.3 cm, 宽 5 mm, 后方 1 枚长 2.5 cm, 宽 8~9 mm; 唇瓣具暗紫色斑点, 中裂片倒卵形, 长 20 mm, 宽 13 mm, 顶端具 3 齿, 侧裂片 (侧生退化雄蕊) 长 10 mm, 宽 7 mm; 花药长 15 mm, 几无柄, 药隔附属体长 12 mm; 子房密被长伏毛, 花柱长 6.5 cm, 柱头被睫毛; 上位腺体 2 枚, 线形, 长 5 mm。

本种与斑蟊姜 *Z. monglaense* Senjen et Z. Y. Chen 接近, 但那种叶舌长 4.5~8 cm, 2 浅裂或 2 半裂; 苞片倒卵形; 小苞片管状; 花冠管长 2.7 cm; 子房无毛。

少斑姜 新种

Zingiber paucipunctatum D. Fang, sp. nov.

Species *Z. purpureo* Rosc. Proxima, quod folii lamina usque ad 8 cm lata; ligula membranacea usque ad 5~20 mm alta; bracteola ovata; calyce apice truncato glabro; corollae lobis alteralibus 2.3 cm longis; labello haud purpureo-punctato, lobis lateralibus oblongis 8 mm longis 5 mm latis; crista anthera paulo longiore differt.

Herba perennis; rhizoma tuberosum, 2.8~3.5 cm in diam, intus flavum, radicibus robustis. Caulis foliatus usque ad c. 1.8 m altus. Folia c. 25~43; laminae oblongo-oblanco-

latae, 6~41.5 cm longae, 1.5~5 cm latae, apice acuminatae, basi attenuatae, integrae, supra glabrae, subtus secus costam et juxta marginem superne sparsim pubescentes; petioli c. 2 mm longi, extus pubescentes; ligula chartacea, 1~2 mm alta, in lobos duos ciliatos divisa; vaginae fere glabrae, margine ciliatae. Spica ellipsoidea raro subconoidea, 10~20 cm longa, 3~4 cm in diam, multiflora; pedunculus e rhizomate ortus, 19~32 cm longus, erectus vaginis 4~4.5 cm longis indutus; bracteae imbricatae, obovatae usque ad late ovatas, c. 4 cm longae, 2.5~3.5 cm latae, apice obtusae, et vaginae unquam purpureae prope marginem viridulae, extus cum pedunculo et vaginis et bracteolis pubescentes, uniflorae; bracteolae late ellipticae, 2.8 cm longae, c. 2 cm latae, dilute purpureae prope marginem albidae membranaceae, apice bilobae; calyx 1.7 cm longus, unilateraliter fissus, apice tridentatus ciliatus; corollae tubus albus, 3.5 cm longus, lobis flavis, lateralibus lanceolatis 17 mm longis 7 mm latis, dorsali 23 mm longo 13 mm lato; albellum flavum, lobo medio late ovato vel subrotundato 1.6~2 cm longo 2~2.5 cm lato pauco et inconspicuo purpureo-punctato apice bilobo margine eroso, lateralibus (staminodiis lateralibus) late ovatis 5 mm longis 7 mm latis integris vel prope intus later unidenticulatis; anthera 12 mm longa, fere sessilis, crista 10 mm longa; ovarium dense adpresso-pubescent, stylo c. 5 cm longo, stigmatibus ciliatis, glandes epigynae 2, acerosae, 4 mm longae.

Guangxi (广西): Donglan (东兰), 1969-08-21, D. Fang (方鼎) 38590; Bose (百色), Daleng (大楞), 1974-07-30, Huang Ruzhong (黄儒忠) 36940; Nanning (南宁), cult. D. Fang (方鼎) 78614 (holotypus, GXMI).

多年生草本; 根状茎块状, 粗 2.8~3.5 cm, 内面黄色; 根粗壮。茎高约达 1.8 m。叶约 25~43 枚; 叶片长圆状倒披针形, 长 6~41.5 cm, 宽 1.5~5 cm, 顶端渐尖, 基部渐狭, 全缘, 上面无毛, 下面沿中脉及近边缘上部疏被短柔毛; 叶柄长约 2 mm, 外被短柔毛; 叶舌纸质, 高 1~2 mm, 2 全裂, 被睫毛; 叶鞘几乎无毛, 边缘被睫毛。穗状花序椭圆状, 稀近圆锥体形, 长 10~20 cm, 粗 3~4 cm, 多花; 花序梗自根状茎抽出, 长 19~32 cm, 直立; 鳞片状鞘长 4~4.5 cm; 苞片覆瓦状排列, 倒卵形至阔卵形, 长约 4 cm, 宽 2.5~3.5 cm, 顶端钝, 和鳞片状鞘始终紫红色, 近边缘绿色, 外面连同花序梗、鳞片状鞘和小苞片被短柔毛, 每苞内有花 1 朵; 小苞片阔椭圆形, 长 2.8 cm, 宽约 2 cm, 淡紫红色, 近边缘白色而膜厚, 顶端 2 浅裂; 花萼长 1.7 cm, 1 侧开裂, 顶端具 3 齿, 被睫毛; 花冠管白色, 长 3.5 cm, 裂片淡黄色, 侧裂片披针形, 长 17 mm, 宽 7 mm, 背裂片 23 mm, 宽 13 mm; 唇瓣淡黄色, 中裂片阔卵形或近圆形, 长 1.6~2 cm, 宽 2~2.5 cm, 具极少而不明显的紫色小斑点, 顶端 2 浅裂, 边缘啮蚀状, 侧裂片 (侧生退化雄蕊) 阔卵形, 长 5 mm, 宽 7 mm, 全缘或内侧有 1 小齿; 花药长 12 mm, 几无柄, 药隔附属体长 10 mm; 子房密被短伏毛, 花柱长约 5 cm, 柱头被睫毛; 上位腺体 2 枚, 线形, 长 4 mm。

本种与 *Z. purpureum* Rosc. 颇接近, 但那种叶片宽达 8 cm; 叶舌膜质, 高达 5~20 mm; 小苞片卵形; 花萼顶端平截, 无毛; 花冠侧裂片长 23 mm; 唇瓣无斑点, 侧裂片长圆形, 长 8 mm, 宽 5 mm; 药隔附属体稍长于花药。

长腺姜 新种

Zingiber longiglandae D. Fang et D. H. Qin, sp. nov.

Proximum *Z. atro-rubenti* Gagnep., quod bracteis et bracteolis lanceolatis, his fere

non ultra 3 cm longis; calycibus pilosis, apice non subtruncatis; floribus purpureis; labellis longe ovatis vel ovatis, purpureo-striatis; glandibus epigynis c. 4 mm longis differt.

Herba perennis; rhizoma tuberosum intus flavum, radicibus saepe apicem versus in tubera fusiformia incrassatis. Caules foliati c. 0.6~1.3 m alti. Folia per caulem c. 14~23, petiolis 0~5 mm longis; laminae anguste ellipticae raro lanceolatae, 8~32 cm longae, 1.5~5 cm latae, apice acuminatae, basi attenuatae, integrae, supra glabrae, subtus cum petiolis sparse adpresso-pubescentes; ligula membranacea, 1~6 mm alta, in lobos duos divisa; vaginae margine membranaceae. Spica ovoidea vel anguste ellipsoidea, 5~6.5 cm longa, 2~3.5 cm crassa, multiflora; pedunculus basalis, c. 1~5 cm longus, debilis; bracteae purpureae, anguste ovatae, 4.5 cm longae, 13 (~20) latae, apice breviter acuminatae, extus cum bracteolis sparse adpresso-pubescentes, uniflorae; bracteolae anguste ovatae, 3.5~4 cm longae, 10 mm latae, apice obtusae; calyx glaber, 2.3~2.5 cm longus, unilateraliter fissus, apice subtruncatus, 3-crenatus; corollae tubus 3~4 cm longus, lobis flavis, lateralibus lanceolatis 2.5 cm longis 8 mm latis, dorsali ovato 3 cm longo 14 mm lato; labellum flavum, rubello punctatum, late ovatum, 3.5 cm longum, 3 cm latum, apice retusum, margine repandum, lateralibus (staminodiis lateralibus) 0; anthera 14 mm longa, fere sessilis, crista 18 mm longa; ovarium dense adpresso-pubescent, stylo 6~6.7 cm longo, stigmatibus ciliatis; glandes epigynae 2, acerosae, 8 mm longae.

Guangxi (广西): Quanzhou (全州), Dongshan (东山), Shangtang (上塘), on hillslopes, alt. 650 m, 1982-07-25, D. H. Qin (覃德海) 41632 (holotypus, GXMI).

多年生草本; 根状茎块状, 内面土黄色; 根末端常膨大呈纺锤状。茎高 0.6~1.3 m。叶约 14~23 枚; 叶片狭椭圆形, 稀披针形, 长 8~32 cm, 宽 1.5~5 cm, 顶端渐尖, 基部渐狭, 全缘, 上面无毛, 背面连叶柄疏被短伏毛; 叶柄长 0~5 mm, 叶舌膜质, 高 1~6 mm, 2 全裂; 叶鞘边缘膜质。穗状花序卵球形或狭椭圆形, 长 5~6.5 cm, 粗 2~3.5 cm, 多花; 花序梗自根状茎抽出, 长约 1~5 cm, 柔弱; 苞片紫色, 狭卵形, 长 4.5 cm, 宽 13 (~20) mm, 顶端短渐尖, 外面连同小苞片疏被短伏毛, 每苞片内有花 1 朵; 小苞片狭卵形, 长 3.5~4 cm, 宽 10 mm, 顶端钝; 花萼无毛, 长 2.3~2.5 cm, 1 侧开裂, 顶端近截平, 具 3 圆齿; 花冠管长 3~4 cm, 裂片黄色, 侧裂片披针形, 长 2.5 cm, 宽 8 mm, 背裂片卵形, 长 3 cm, 宽 14 mm; 唇瓣黄色, 具淡红色斑点, 阔卵形, 长 3.5 cm, 宽 3 cm, 顶端微凹, 边缘残波状, 无侧裂片; 花药长 14 mm, 几无柄, 药隔附属体长 18 mm; 子房密被短伏毛, 花柱长 6~6.7 cm, 柱头被睫毛; 上位腺体 2 枚, 线形, 长 8 mm。

本种与川东姜 *Z. atro-rubens* Gagnep. 颇接近, 但苞片狭卵形; 小苞片与苞片同形, 长 3.5~4 cm; 花萼无毛, 顶端近截平; 花冠黄色; 唇瓣阔卵形, 黄色, 具淡红色斑点; 上位腺体长 8 mm。