

60; H. Ito, Fil. Jap. Illustr. (1944) t. 475——*Didymoglossum latealatum* v. d. B. in Ned. Kr. Arch. V (1863) 138; Cop. in Philip. Journ. Sci. LI (1933) 192, t. 25, 26——*Trichomanes latealatum* Christ in Verk. Nat. Ges. Basel XI (1896) 424; C. Chr. Ind. Fil. (1905) 643; Tard.-Blot et C. Chr. in Fl. Indo-Chine VII, ii (1939) 64; Holt. Fl. Mal. II, Ferns Mal. (1954) 101.

植株高 2—4.5 厘米。根状茎纤细，丝状，横走，分枝，暗褐色，全部密被褐色的短毛。叶远生，相距约 1 厘米；叶柄短或几无柄，长不及 5 毫米，纤细如丝，暗绿褐色，基部黑褐色并被短毛，几全部有翅；叶片长卵形至阔披针形，长 2—5 厘米，宽 10—20 毫米，尖头，二回羽裂；羽片 3—6 对，互生，无柄，斜向上，长斜卵形至长圆形，长 5—8 毫米，宽 3—4 毫米，先端钝圆，基部斜楔形，上部的密接，下部几对稍疏，深羽裂几达有翅的羽轴；末回裂片长圆状线形，长 3—4 毫米，宽约 0.8 毫米，4—6 对，极斜向上，密接，锐尖头，全缘，边有浅波状褶皱。叶脉叉状分枝，暗褐色，两面稍隆起，无毛。沿叶缘无连续不断的假脉，在叶边与叶脉间有数条断续而和叶脉斜行的假脉。叶为薄膜质，半透明，干后为暗绿褐色，光滑无毛。叶轴及羽轴暗褐色，稍曲折，全部有翅，翅的边缘有褶皱，无毛。孢子囊群生在叶片上部，顶生于向轴的裂片上，一个羽片上有 2—5 个；囊苞椭圆形，长约 1.2 毫米，基部稍狭，两侧有狭翅，口部浅裂为两唇瓣；唇瓣三角形，其基部扩大而宽于囊苞的管；囊群托突出。

产广东(博罗,罗浮山)、广西(雒山、凌云、青龙山)、四川(重庆,缙云山)、贵州(独山)、云南西北部等地。生长在山地林下岩石上,海拔 800—1600 米。除我国南部及西南部外,亦分布于印度东北部、越南、泰国、马来亚及印度尼西亚(苏门答腊),向北达日本、琉球。

8. 朱氏假脉蕨

Crepidomanes chuii Ching et Chiu, sp. nov.

植株高 7—15 厘米。根状茎细长如铁丝,粗 0.6—1 毫米,横走,黑色,密被黑褐色的短毛。叶远生,相距约 1—2.5 厘米;叶柄长 1.5—3 厘米,粗约 0.5 毫米,暗绿色,两侧有狭翅几达基部,翅的边缘密生黑褐色而易断的短睫毛;叶片长圆卵形,长 8—12 厘米,宽 2.5—5 厘米,先端长渐尖,三回羽裂;羽片 8—12 对;互生,基部的几对生,无柄,斜向上,长圆状披针形,长 1.5—3.5 厘米,宽 6—12 毫米,下部几对的间隔约 5 毫米,其余的密接,先端钝,基部斜楔形,基部 1 对稍缩小;小羽片 4—6 对,互生,无柄,极斜向上,斜倒卵形至几为扇形,长 4—6 毫米,宽 3—5 毫米,相距 1—2 毫米,先端钝圆,基部下侧下延,羽状至指状深裂;末回裂片 3—6 个,极斜向上,长 1—3 毫米,宽

0.8—1 毫米,先端鈍头至急尖头,全緣。叶脉叉状分枝,两面稍隆起,暗綠色,曲折,无毛;末回裂片有小脉 1 条,沿叶緣无連續不断的假脉,但在叶肉中有数条断續的并与叶脉斜行的假脉。叶为薄膜質,干后草綠色,半透明,稍有褶皱,无毛。叶軸及羽軸暗綠色,全部均有翅,翅的边緣稍有浅波浪状褶皱。孢子囊羣生在叶片的上半部,着生于向軸短裂片的頂端;囊苞橢圓形,長約 2 毫米,寬約 1 毫米,管部兩側稍有狹翅,其下的裂片稍縮狹或不縮狹,口部膨大并深裂为两唇瓣;唇瓣尖三角形,长过于寬,其长度約与囊苞的管部相等,尖头。

为云南东南部(屏边,石板乡,普汝后山)特产。生于常为云雾籠盖的高山頂上潮湿原始森林內,附生树干上或岩石上,海拔 1500 米。

9. 峨眉假脉蕨

***Crepidomanes omeiense* Ching et Chiu, sp. nov.**

植株高 5—10 厘米。根状莖細长如鉄絲,粗約 1.2 毫米,橫走,黑褐色,分枝,密被黑褐色蓬松的短毛。叶远生,相距 2 厘米以上;叶柄长 1—2 厘米,粗約 0.5 毫米,基部黑褐色并被短毛,其余暗綠色而几光滑,无翅或仅在上部稍具下延的翅;叶片卵形至卵状披針形,长 4—8 厘米,寬 1.5—2.5 厘米,二回羽裂;羽片 5—7 对,互生,无柄,斜向上,卵形至卵状披針形,长 1—2 厘米,寬 3—6 毫米,密接,先端鈍,基部斜楔形,深羽裂几达有闊翅的羽軸;裂片 3—6 对,互生,极斜向上,长圓形至闊楔形,长 3—5 毫米,寬 2—3.5 毫米,上部浅裂为 2—4 个圓头的短裂片,基部下側下延,全緣。叶脉叉状分枝,两面明显,暗綠色,无毛,沿叶緣无連續不断的假脉,但在叶肉中有 1—2 行断續而与叶脉并行或几并行的假脉。叶为薄膜質,干后暗綠色,无毛,稍褶皱。叶軸暗綠色,全部有狹翅,翅的边緣多少有褶皱。孢子囊羣生于向軸的短裂片的頂端,通常 1 个羽片或裂片上只有 1—2 个;囊苞漏斗形,長約 1.5 毫米,寬約 0.8 毫米,兩側有狹翅,其下的裂片通常縮狹,口部不膨大或稍膨大,浅裂为圓形或近于圓形的唇瓣;囊羣托突出,長約 2 毫米,褐色,通直。

四川(峨眉山)特产。附生于树干上,叶常下垂,海拔 1800 米。

10. 少脉假脉蕨

***Crepidomanes paucinervium* Ching, sp. nov.**

植株高 6—8 厘米。根状莖細长如鉄絲,粗約 1 毫米,橫走,黑褐色,被黑褐色的短毛。叶远生;叶柄长 2—2.5 厘米,粗約 0.4 毫米,基部黑褐色并被短毛,其余灰褐色并几光滑,上半部兩側有翅;叶片卵形,长 3—6 厘米,寬 2.5—3 厘米,2—3 回羽裂;羽片 4—7 对,互生,几无柄,斜向上,长圓状斜卵形,长 1.5—2 厘米,寬 0.5—0.8 厘米,

pedicelliformem attenuatis, ultra medium divisis, valvis oblongis, brunneis, lateribus integris, apice conspicue spinescenti-dentatis.

Yunnan austr.-orient., King-ping Hsien, Lai Ta Shui, leg. *Tsu Yong-cheng* No. 474, V, 19, 1953.

7. **Hymenophyllum whangshanense** Ching et Chiu, sp. nov.

Rhizomate late repente, filiforme, nigro, breviter radicoso, pilis rufis, praesertim ad pedem stipitis dense vestito; frondibus valde distantibus, stipite 1.5—2 cm longo, nigro, exalato (vel in juvenilibus ca. 4 mm longo), copiose rufo-piloso, lamina adulta 6—7 cm longa, 1.5—2 cm lata, elongato-oblonga vel elongato-ovata, subacuta, basi breviter cuneata, bipinnata, rachi subflexuosa, nigra, ubique alata, ala plana, integra, infra glabra, surpa uti costis nervisque pilis rufis, adpressis dense onusta; pinnis ad 10-jugis, contiguis vel subimbricatis, obliquis, inferioribus parum abbreviatis, medialibus 1—1.3 cm longis, 4—5 mm latis, oblongo-cuneatis, obtusis, basi inaequalibus, inferiore cuneatis, superiore parum productis, ad costam alatum pinnatifidis; segmentis in pinnis basalibus 3-jugis, in medialibus 4—5-jugis, 2—3 mm longis, 1 mm latis, ligulato-linearibus, infimis acroscopicis 2—4-furcatis, ceteris fere indivisis, obliquis, obtusis, spatio angustato separatis, margine planis, ubique regulariter et densius spinoso-dentatis, dentibus spiniformibus, sat longis, patentibus; nervis nigris, prominentibus; textura membranacea, colore in sicco obscure viridi; soris ad partem superiorem frondis restrictis, numerosis, in segmentis terminalibus, indusiis mediocribus e basi ovata versus apicem acutum parum angustato-elongatis, quam lobis soriferis vix aut paululum angustioribus, ad vel ultra medium fissis, valvis angusto-deltoides acutis, margine praecipue ad apicem longe denseque spinosis.

Anhwei austr., Whang Shan, leg. *P. S. Chiu* No. 131, VI, 1954.

Crepidomanes Presl

6. **Crepidomanes pinnatifidum** Ching et Chiu, sp. nov.

Pusillum, rhizomate late repente, vix 1 mm crasso, intricato, dense brunneo-piloso; frondibus distantibus, erectis, subsessilibus vel breviter petiolatis, 1—3 cm longis, 4—8 mm latis, oblongis vel late lanceolatis, obtusis, basi cuneatis, in stipitem brevem decurrentibus, glabris, obscure viridibus, herbaceis, pellucidis, ad alam latam costae pinnatifidis (interdum 2—3-furcatis); segmentis 3—5-jugis, obliquis, 3—4 mm longis, 1.5 mm latis, apice obtusis vel interdum reutis, margine incrassatis, integris, planis; nervis distinctis, crassis concoloribus, venulis spuris brevibus vel longis, inter nervas et margines oblique uniserialibus; soris in segmentis terminalibus, involucro fere ominino immerso, infundibuliformi, utroque latere late alato, ore dilatato, quam truncato potius subrotundato, leviter bilabiato, integro, receptaculo nigro, longe exserto.

Yunnan austr.-orient., Hokou, Nan-chi, between Na-we and Ma-touyi, on wet rocks, 150 m alt., leg. *V. M. Chu* No. 84, III, 28, 1954.

8. **Crepidomanes chiuii** Ching et Chiu, sp. nov.

Rhizomate late repente, radiculis carente, sed densissime nigro-tomentoso; frondibus distantibus, erectis, stipite plerumque 2 cm longo, viride, compresso, utroque usque ad fere pedem anguste alato, nudo; lamina 9—11 cm longa, 3—6 cm lata, breviter acuminata, tripinnatifida, rachi viridi, compressa, alis planis angustis marginata; pinnis infra apicem pinnatifidum 8—10-jugis, obliquis, contiguis, alternis, vel inferioribus suboppositis, sessilibus, basalibus parum

abbreviatis, sequentibus longioribus, 2.7—3.5 cm longis, ca. 1 cm latis, elongato-oblongis, obtusiusculis, basi cuneatis, ad costam alatham pinnatis; pinnulis 6—7-jugis, infimis pinnatifidis, mediis 2—4 subflabellatim furcatis, supremis simplicibus, omnibus segmentis lineari-lanceolatis, 4—6 mm longis, ca. 1 mm latis, apice angustatis acutisque, integris, planis; nervis crassis parenchymate concoloribus, venulis spuriis sat longis, densis, parallelis, ad costulam segmentorum oblique procurrentibus; textura folii herbacea, pellucida, colore in sicco pulcherrime viridi, paginis utrisque glabratis nudisque; soris in segmentis basalibus pinnarum terminalibus, basi immersis, involucri ca. 2 mm longo, viridi, dimidia parte inferiore anguste obconico-tubuloso, e basi attenuata sensim explanato, utroque angustissime marginato, dimidia parte superiore bifido, valvis deltoideis, quam tubo parum brevioribus, apice acutis, integris, basi truncata latissime dilatata, quam ore tuborum magis latiore, receptaculo incluso.

Yunnan austr.-orient., Ping-pien Hsien, Ta-wei Shan, 1400 m alt., *V. M. Chu* No. 40.

9. **Crepidomanes omeiense** Ching et Chiu, sp. nov.

Epiphyticum ad truncos arborum. Rhizomate late repente, ultra 1 mm crasso, densissime nigro-piloso, radiculis destituto; frondibus distantibus, glabratis, stipite 1—2.4 cm longo, olivaceo-viridi, prope laminam anguste decurrenti-alato, parte inferiore exalato, lamina 4—8 cm longa, 1.5—2 cm lata, ovata ad oblonga, acutiuscula, tripinnatifida, rachi compressa, anguste marginata; pinnis 6—10-jugis, obliquis, confertis vel laxis, 1—2 cm longis, 4—7 mm latis, oblongis vel linearibus, obtusis, pinnatifidis; pinnulis 3—6-jugis, obliquis, basali anteriori majore pinnatifidis, sequentibus 2—3-furcatis, supremis simplicibus; segmentis ca. 3 mm longis, vix 1 mm latis, linearibus, apice angustatis subacutisque, margine integris, planis vel sicco convolutis; nervis crassis prominulis, concoloribus, venulis spuriis inter costulas et marginales 1—2 serialibus, flexuosis, interruptis, parallelis; textura folii herbacea, pellucida, viridi, soris in axillis pinnulium sitis, exsertis, involucri infundibuliformi, e basi attenuata versus orem gradatim expanso, ore breviter bilabiato, valvis extus subtruncatis vel rotundatis, integris, receptaculo non vel brevissime exserto.

Szechuan, Omei Shan, from Chiu-lao-tung to Se-shiang Chu, leg. *S. C. Chen* No. 10039, VIII, 16, 1953.

10. **Crepidomanes paucinervium** Ching, sp. nov.

Species statura *C. omeiensis* Ching et Chiu affine, differt indusiis brevioribus, latioribus et lobis soriferis vix angustatis suffultis, venulis spuriis perpaucis, saepius lineas singules interruptas solum formantibus.

Szechuan bor.-occid., leg. *H. H. Smith* No. 2002.

11. **Crepidomanes yunnanense** Ching et Chiu, sp. nov.

Rhizomate late repente, 1 mm crasso, dense nigro-tomentoso; frondibus distantibus, erectis, stipite breve, 3—5 mm longo, anguste alato, margine decidue nigro-ciliato; lamina 5—6 cm longa, 1.8—2.3 cm lata, elongato-oblonga, obtusa, pellucida, colore in sicco viridi vel obscure viridi, glabrata, bipinnata; pinnis 10—12-jugis, confertis, alternis, oblique patentibus, basi ad alam latam rachidis confluentibus, inferioribus 1—2-jugis brevioribus, sequentibus majoribus, mediis 1—1.4 cm longis, 6 mm latis, oblongis, obtusis, profunde pinnatifidis; pinnulis 3—4-jugis, omnibus subflabellatim furcatis, vel superioribus bifidis; lobis 2—3 mm longis, 1 mm latis, apice angustatis, subacutisque, margine integris, planis; nervis utrinque prominulis, venulis