

Davallodes chingiae Ching, sp. nov.

植株高 35—40 厘米。根状茎长而横走,粗約 3 毫米,全部密被鱗片;鱗片披針形,長約 4 毫米,先端长漸尖而呈鉗形,盾狀着生于根状茎上,膜質,全緣,全部呈淺紅褐色。叶远生,相距 1—2 厘米;叶柄长 12—15 厘米,粗約 2 毫米,淡紅色,基部密被鱗片,頂部以上被淺褐色的短毛,其余几光滑,上面有淺沟;叶片卵状披針形,长 25—28 厘米,寬 11—14 厘米,先端漸尖,淺羽裂,基部淺心脏形至截形,下部三回羽裂,上部二回羽裂;羽片約 15 对,基部一对近对生,其余的互生,几无柄,平展,长圓状披針形至闊披針形,下部的长 5—7 厘米,寬 2—3 厘米,向上羽片逐漸縮小,先端漸尖,基部近截形,基部一对和上方一对同形,羽状分裂到有狭翅的羽軸;小羽片 13—15 对,基部一或两对对生,向上的互生,平展,长圓形,长 10—15 毫米,寬 3—5 毫米,急尖头,基部不对称,下側下延,間隙寬 1—2 毫米,基部上側一个小羽片較大,羽状深裂到达有翅的小羽軸;裂片 6—8 对,斜向上,鐮刀状长圓形,长 1.5—3 毫米,寬 1.5—2.5 毫米,先端尖头而向上弯曲,基部不对称,全緣或于兩側各有一小尖齿,密接,基部上側一个裂片較大。叶脉羽状,两面均可見,灰綠色,小脉分叉。叶草質,干后淺綠褐色,两面均无毛,但叶軸和羽軸全部被淺褐色至灰白色的短毛,尤以上面为多。孢子囊羣生于上側分枝小脉的頂端,每个裂片上通常有 1 个,在小羽軸兩側各排成一列;囊羣盖半圓形,上緣闊圓形,基部着生并为截形,厚膜質,淺褐色。

本种为云南东南部(麻栗坡)特产。生于混交林下岩石上,海拔 1300—1500 米。

2. 毛根蕨屬——Trogostolon Cop.

Cop. in Philip. Journ. Sci. XXXIV (1927) 251, t. 4 et Gen. Fil. (1947) 87.

小形附生植物。根状茎长而横走,全部密被鱗片;鱗片上部細长,針状,紅棕色,基部闊而为盾状,黑褐色,邊緣有睫毛或几光滑。叶远生;叶柄細长,有淺沟,光滑无毛,以关节与极短的叶足相連,基部有 2 个維管束,上部則只有 1 个;叶片三角形,多回羽裂,基部一对羽片比上方一对为大,末回裂片狭。叶脉羽状,小脉分叉。叶为草質至近革質,光滑无毛;叶軸及羽軸均有狭翅。孢子囊羣生在鐮刀状的裂片的基部上側,着生于上方分叉的短小脉頂端;囊羣盖圓形或扁圓形,質地堅厚,基部着生;孢子囊的柄短而纖細,环带有(12—)14 个加厚細胞;孢子长圓形至肾脏形,透明,有疣状突起。

本属仅有 2 种,1 种产我国云南南部,另 1 种产于菲律宾的中部及南部。

1. 毛根蕨

Trogostolon yunnanensis Ching, sp. nov.

植株高約 15 厘米。根状莖长而横走,粗 3—4 毫米,分枝,全部密被鱗片;鱗片上部細长,針状,紅棕色,下部卵形,黑褐色,近基部盾状,长约 4 毫米,边缘有疏睫毛或几光滑。叶远生,相距达 5 厘米;叶柄长约 5 厘米,細长,粗約 1 毫米,褐色,基部被鱗片,其余光滑,上面有浅沟;叶片三角形,长 8—10 厘米,基部寬 7—10 厘米,先端漸尖,基部心脏形,二回至近三回羽裂;羽片約 10 对,平展,基部一对近对生,其余的互生,下部的有短柄,上部的无柄,三角状披針形至长圓形,基部一对最长,3.5—4.5 厘米,寬 1.5—2 厘米,先端尖头,基部不对称,上側截形,下側楔形,二回羽状深裂到有狭翅的羽軸;小羽片 5—8 对,互生,无柄,斜展,长圓形至斜卵形,长 1—1.5 厘米,寬 4—5 毫米,鈍头,基部下側下延,羽裂;末回裂片 4—6 对,斜向上,长圓状披針形,长 2—3 毫米,寬 1—2 毫米,尖头,全緣或頂部有 2—4 个浅鈍齿,密接。叶脉羽状,两面稍隆起,褐色,光滑无毛,裂片上的小脉常分叉。叶为坚草質,干后呈棕褐色,光滑无毛。孢子囊羣未見。

本种为云南南部特产。

3. 雨蕨屬——Gymnogrammitis Griff.

Griff. Ic. Pl. Asiat. II (1849) t. 129, f. 1 et Notulæ

ad Pl. Asiat. II (1849) 608.

中形附生植物。根状莖横走,灰蓝色,密被鱗片;鱗片锈黄色,披針形,先端长鉗形,边缘有睫毛。叶柄紅棕色,光亮,以关节着生于明显的叶足上;叶片卵状或三角形,光滑,四回羽状深裂,細裂如小膜盖蕨屬 *Araiostegia*, 末回裂片綫形,每片一脉。孢子囊羣小,圓形,无盖,生于小脉頂端以下;孢子肾脏形,紅棕色。

本属为单种的属,分布于中国、喜馬拉雅、越南及泰国。

Copeland 氏(*Genera Filicum* p. 85) 錯誤地認為本属与小膜盖蕨屬相同,其实本属不仅孢子囊羣无盖,而且孢子囊羣生于小脉頂端以下(背生),叶柄以显著的关节着生于較高的叶足上,并且根状莖上的鱗片为狭披針形,有长鉗头,边缘有睫毛密生。

1. 雨蕨(中国主要植物图說,蕨类植物門) 图版 XXI, 3—6

Gymnogrammitis dareiformis (Hook.) Ching ex Tard.-Blot et C. Chr. in Fl. Indo-Chine VII, ii (1939) 117; Ching in Sunyatsenia V (1940) 220; 傅书遐, 中国主要植物图說(蕨类植物門) (1957) 58 頁, 70 图——*Polypodium dareiforme* Hook. 2nd. Cent. Ferns (1860) t. 24; Sp. Fil. IV (1862) 256; Bedd. Ferns Brit. Ind.

crenulato.

Yunnan austr.-orient., Ma-kuan Hsien, Ching-kou (Lao Chün Shan), alt. 1100—1500 m, in bamboo thickets, leg. K. M. Feng No. 13646, XII, 5, 1947.

Schizoloma Gaud.

3. **Schizoloma intertextum** Ching, sp. nov.—*Lindsaea intertexta* Ching nom. in herb.

Rhizomate breve, repente, paleis minutis, rufo-ferrugineis, subulato-linearibus dense oblecto; frondibus approximatis, stipite 11—25 cm longo, atro-purpureo, paululum ultra 1 mm crasso, infra tereti, supra applanato, basi sparse paleaceo, sursum nudo; lamina 25—32 cm longa, 2.5—3 cm lata, elongato-lineari, pinnata infra apicem breviter subacuminatum ad alam perangustatum racheos pinnatifidum; pinnis numerosis (plerumque utroque latere ultra 20-jugis), alternis, patentibus, breviter petiolatis, inferioribus 3 cm distantibus, deltoideo-ovatis subcordatisve, 1.8 cm longis, basi latissima 1.3 cm latis (interdum jugis 1—3 basilibus prolongatis, 4—10 cm longis, 1—1.5 cm latis, pinnatis, pinnulis 2—14-jugis, ambitu pinnis superioribus similibus sed saepius minoribus), superioribus minoribus, densioribus, haud approximatis, flabelliformibus, basi inaequali subcordatis, supremis minimis, ca. 7 mm longis et latis, suborbicularibus, sessilibus, omnibus margine praesertim sterilibus denticulatis, costis pinnarum distinctis, sed apicem pinnarum non attingentibus, nervis lateralibus liberis, dichotomis, infra parum prominulis, supra obscuris; textura folii herbacea, obscure viridi; rachi straminea vel deorsum brunneo-straminea, infra tereti, supra plana; soris marginem totum (basi excepta) occupantibus, continuis, indusiis angustatis, pallidis, integris, marginem attingentibus.

Kwangsi, without locality, No. 50 ex Herb. Department of Biology, Kwangsi University (typus); Shang-sze Hsien, Shi-wan-ta Shan, on the border of Kwangtung, leg. W. T. Tsang No. 22106; south of Nan-ning, leg. R. C. Ching No. 7758, XI, 10, 1928. Yunnan austr.-orient., Hokou, leg. Tsai Ke-hwa No. 48, alt. 120 m, IV, 24, 1953.

Trogostolon Cop.

1. **Trogostolon yunnanensis** Ching, sp. nov.

Species statura *T. falcinello* (Presl) Cop. philippinae valde affine, differt paleis rhizomatis rufis, lamina 3-pinnatifida, et segmentis integris vel apice paululum bifidis.

Rhizomate late repente, ca. 3 mm crasso, densissime paleaceo, paleis rufis, patentibus, basibus peltatis deinde subito in pilum longe aciculatum contractis; frondibus distantibus, erectis, stipite ad 5 cm longo, tenui, rufo-stramineo, nudo; lamina ca. 10 cm longa, 7—8 cm basi lata, deltoidea, acuminata, glabra, tripinnatifida; rachide utroque latere plus minusve anguste alata; pinnis ca. 10-jugis infra apicem pinnatifidum, patentibus, inferioribus subalternis, 1.8 cm a se distantibus, superioribus approximatis, infimis maximis, breviter petiolatis, 4—5 cm longis, 2—2.5 cm basi latis, oblongis, breviter acuminatis, basi subaequali, basiscopica parum productis; pinnulis 6-8-jugis, contiguis, oblique patentibus, 1—1.4 cm longis, 5—6 mm latis, oblongis, obtusis, basi cuneatis, ad costam alatum decurrentibus; segmentis ultimis 3-5-jugis, obliquis, linearibus, 3 mm longis, 1 mm latis, integris vel ad apicem inaequaliter bifidis; nervis in segmentis simplicibus vel furcatis, utrinque notatis; textura folii herbacea,

colore in sicco rufescente brunnea, soris ignotis.

Yunnan occid., Ping-chuan, Chi-tso Shan, R. N. No. 8162 ex Herb. Department of Biology, South-western Union University.

Davallodes Cop.

2. Davallodes chingiae Ching, sp. nov.

Rhizomate rampante, 4 mm crasso, densissime paleaceo, paleis rubidis, imbricatis, e basi rotundo-peltata lanceolatis et in pilum longum patentem gradatim attenuatis; stipite 12—15 cm longo, 1.5 mm diametro, pulcherrime rubido, supra basin glabro vel ad apicem perparse puberulo; lamina 24—27 cm longa, 11 cm lata, late lanceolata, gradatim acuminata, basin versus non vel vix angustata, bipinnata; pinnis ultra 20-jugis, alternis, patentibus, sessilibus, basalibus superioribus similibus, vel paululum abbreviatis, 5—6 cm longis, 2.3—2.5 cm basi latis, breviter acuminatis, basi subaequalibus, ad alam angustatam costae pinnatis; pinnulis 10-14-jugis, contiguis, 1—1.3 cm longis, 4 mm latis, lineari-lanceolatis, obtusis vel subacutis, basiscopica obliqua quam acroscopica erecta paulo brevioribus, utroque profunde pinnatifidis; segmentis ultimis 5-7-jugis, confertis, ovatis, falcatis, auctis, integris, uninerviis; nervis utrinque prominulusculis in segmentis simplicibus; textura folii herbecea, colore in sicco brunnescente viridi, rachi costisque pinnarum utrinque breviter pubescentibus, aliter glabra; soris in venis terminalibus, uno pro segmento, indusiis semiorbicularibus, brunneis, firmulis, basi adnatis, lateribus liberis, apice rotundatis, glabris, subimmersis, supra distincte punctatis.

Yunnan austr.-orient., Mar-li-po, Hwang-jin-in, alt. 1300—1500 m, on rocks in mixed forest, leg. K. M. Feng No. 13127, IX, 9, 1947.

Davallia Sm.

2. Davallia cylindrica Ching, sp. nov.

Species *D. bullatae* Wall. affinis, recedit paleis rhizomatis angustioribus, longioribus, patentibus, in pilum longe attenuatis, indusiis longioribus, cylindriformibus.

Rhizomate late repente, ca. 5 mm diametro, densissime paleaceo, paleis atro-rubidis, patentibus, lineari-lanceolatis in pilum longe attenuatis; frondibus 2—3 cm a se distantibus, erectis, stipite tenui, ca. 1 mm crasso, stramineo vel pallide stramineo, supra basin nudo; lamina 18 cm longa et basi lata, subpentagono-delloidea, longe acuminata, tripinnata; pinnis lateralibus infra apicem pinnatifidum ca. 7-jugis, subalternis, oblique patentibus, basalibus maximis, 9 cm longis, 5 cm basi latis, elongato-delloideis, longe acuminatis, ca. 3 cm a jugis sequentibus remotis, petiolatis (petiolo ca. 3 mm longo), bipinnata; pinnulis primariis ca. 9-jugis infra apicem pinnatifidum, anadromicis, obliquis, contiguis, basiscopica maxima producta, 4 cm longa, 1.3 cm lata, elongato-oblonga, acuta, petiolata, ad alam rachillae pinnata; pinnulis secundariis ca. 8-jugis, 8 mm longis, 3 mm latis, oblongis, obliquis, utroque in segmenta 2-3-juga, oblonga, apice acuta incisus; nervis in segmentis indivisis, utrinque prominulis; pinnis superioribus gradatim abbreviatis, e basi delloidea lanceolatis, acuminatis; textura folii firmuliter herbacea, colore in sicco obscure viridi, glabra; soris uno pro segmento, indusiis cylindriformibus, quam latis duplo vel parum ultra longioribus, brun-