

状,二回小羽片約 10 对,长 1—1.5 厘米,寬 5 毫米,长圓形,先端有数鈍齿,基部不对称,上側与小羽軸并行,下側直楔形,下延,有缺刻分开,基部的羽状深裂;末回裂片倒卵形或近圓形,密接,全緣。羽片向頂部漸短,二回深羽裂,一回小羽片闊披針形,漸尖头,末回裂片除下側全緣外,有鈍齿牙。叶脉下面微隆起,羽状分叉,达于叶边。叶草質,干后褐綠色,两面几光滑,惟沿叶脉偶有短棕色毛貼生;叶軸和叶柄同色,仅向頂部有微毛,羽軸,小羽軸有棕色毛較为密生。孢子囊羣小,生末回裂片基部下側近缺刻处,每片 1 个;囊羣盖半杯形,棕色,无毛。

产云南东南部(屏边县,大围山)。

本种近于热带鳞盖蕨 *Microlepia speluncae* (Linn.) Moore, 但下面光滑无毛。

47. 毛闊叶鳞盖蕨

Microlepia kurzii (Clarke) Bedd. Handb. Ferns Brit. Ind. (1883) 66; C. Chr. Ind. Fil. (1905) 426——*Davallia kurzii* Clarke in Trans. Linn. Soc. II, Bot. (1880) 446.

植株高达 2 米以上。根状莖粗硬,直径 2—3 厘米,木質,淡褐色,密被黃棕毛。叶远生,柄长約 1 米,基部粗 1 厘米左右,粗如拇指,密复棕毛,向上光滑。叶片长 1 米以上,三回羽状,羽片 7—9 对,互生,相距 14 厘米,基部的长达 60 厘米,寬 30 厘米左右,长圓形,先端漸尖,深羽裂,柄长 5 厘米左右,二回羽状深裂;一回小羽片 10—12 对,长 15 厘米左右,寬 5—6 厘米,闊披針形,漸尖头,基部不等寬,上側平截,下側短楔形,柄长 4—8 毫米,几开展,相距 5—6 厘米,羽状深裂几达小羽軸;末回羽片 12—14 对,互生,开展,上先出,基部下側一片特长,約 3 厘米,寬 1.2—1.4 厘米,卵状长圓形,先端短尖,与叶軸并行,第二片向上和下側的长 1.5—1.8 厘米,寬約 8 毫米,长圓形或近于三角形,先端鈍,密接,向頂部漸变狹,汇合而成羽裂的长尖头;末回裂片边缘近全緣或有少数鈍锯齿。叶脉較显,側脉羽状分枝,不到叶边。叶草質,干后上面暗綠色,光滑无毛,下面黃綠色,密被棕色短柔毛;叶軸和叶柄同色,光滑,中部以上的羽軸和小羽軸密被棕色短毛。孢子囊羣圓形,位于末回羽片兩側的小脉頂端,3—5 对,近叶边着生;囊羣盖腎形,密被棕色絨毛。

产云南西南部(澜滄县)。生山峽中,海拔 1300 米。也广布于上緬甸。

本种形体酷似闊叶鳞盖蕨 *M. platyphylla* (Don) J. Sm., 但叶質較薄,下面有短柔毛密生。

48. 云南鳞盖蕨

Microlepia yunnanensis Ching, sp. nov.

根状莖横走,粗約 4 毫米,稍有灰色毛或近光滑。叶近生,柄长 40—50 厘米,粗約 3 毫米,禾稈色或老禾稈色,稍有光泽,几光滑,略有粗糙的痕;叶片长 70—80 厘米,中部寬 22 厘米,长圓形,頂部漸尖,基部稍狹,三回羽状;羽片約 15 对,互生,斜向上,下部的相距 8 厘米,上部的相距 4 厘米,彼此远离,有短柄(長約 4 毫米),基部的長約 10 厘米,寬 4—5 厘米,长圓披針形,中部的最长,15—19 厘米,寬 3—4 厘米,披針形或闊披針形,多少呈鐮刀状,向先端为长漸尖头,一回羽状,基部闊楔形,几对称,二回羽状;一回小羽片 20 余对,接近,开展,近于互生,基部上側一片較长,2.5—3 厘米,寬約 1 厘米,披針形,漸尖头,与叶軸接近且并行,其余的向上漸短,长 1.5—2 厘米,闊披針形,寬約 7—8 毫米,鈍头或急尖头,基部不对称,下側楔形,上側截形(即末回小羽片較长并与羽軸并行),几无柄,一回羽状;末回小羽片 6—7 对,密接,长圓形,基部上側一片較长,7—8 毫米,寬 3 毫米,其余的小羽片較短,圓头,全緣,基部合生,少至上側半分离。叶脉纤细,上下两面不太明显,斜出,分叉或单一,水囊细长,明显。叶草質,干后綠色,两面疏被貼生的短毛;叶軸及羽軸上密生淡棕色短柔毛。孢子囊羣疏生,每末回小羽片 1—2 个,生于基部上側一小脉;囊羣盖小,杯形,有密毛。

产云南东南部(蒙自新安鎮,烂木桥)。生林下阴湿山沟,海拔 450 米。

49. 疏毛鳞盖蕨

Microlepidia communis Ching, sp. nov.

根状莖横走,粗 6—7 毫米,分枝,黑褐色。叶疏生,柄长达 40 厘米,粗 7 毫米,灰褐色,无毛,略粗糙。叶片长逾 1 米,寬約 40 厘米,先端为羽状尾头,向下为三回深羽裂,基部为三回羽状;羽片 20—25 对,基部一对特小,长不到 10 厘米,第二对以上长 25—30 厘米,基部寬 8—9 厘米,卵状披針形,长尾头,基部几等寬,柄长 1 厘米,密生棕色短毛,互生,斜向上,相距 8—13 厘米,基部二回羽状,向上为一回羽状;一回小羽片在羽状尾头以下約 20 对,接近,斜向上,互生,上先出,基部的長約 5—6 厘米,寬 2 厘米左右,闊披針形,有短柄,先端短尖或漸尖;向上的漸短,长 2—3.5 厘米,寬 1 厘米,长圓形,急尖或鈍头,基部不等寬,上側平截与羽軸并行,下側广楔形,几无柄,一回羽状;末回羽片长圓形,先端圓或鈍,基部上側一片較大,长 1.5 厘米,寬 8 毫米,圓浅裂,其余的較短小,全緣或仅上边有一个矮缺刻。羽片向頂部漸短,密接几成复瓦状,一回深羽裂,末回小羽片仅基部上方有 2—3 个圓裂片,其余为全緣。叶脉下面微隆起,羽状分枝,斜上,上面的小脉頂端有明显的紡錘形水囊;中部以上的叶軸以及羽軸密被棕色短柔毛。叶草質,干后綠色,上面几光滑,惟沿小羽軸及叶脉偶有短棕毛貼生,下面有短毛疏生。孢子囊羣疏生,每末回小羽片 1—4 个,基部上側的一片常多至

Kwangsi, 45 km. north of Lu-chen, Tze-po, in wooded ravine, leg. *R. C. Ching* No. 5567, VI, 2, 1928.

41. ***Microlepia intermedia*** Ching, sp. nov.

Rhizomate late repente, tenui, 3 mm crasso, pilis griseo-brunneis luteis dense oblecto; frondibus distantibus, stipite 30—35 cm longo, 2 mm crasso, stramineo, subglabro aut persparse piloso; lamina 50—60 cm longa, 18—27 cm lata, oblonga, tripinnata; pinnis 10—12-jugis, alternis, obliquis, 7—8 cm a se distantibus, basalibus parum abbreviatis, mediis 16—20 cm longis, 5—7 cm latis, oblongo-lanceolatis, acuminatis, basi utrinque aequalibus, petiolo 5 mm longo suffultis; pinnulis primariis infra apicem pinnatifidum 12—14-jugis, basalibus longioribus, 3—3.5 cm longis, 1.2—1.5 cm latis, oblongo-lanceolatis, apice acutis vel breviter acuminatis, basi utrinque inaequalibus, sequentibus gradatim minoribus, subpatentibus, alternis, separatis, omnibus breviter petiolulatis (petiolulo alato et ad rachillam leviter decurrente); pinnulis (segmentis) ultimis 4—6-jugis, basali anteriori majore, 6—10 mm longa, 4—6 mm lata, oblonga, paucilobata, sequentibus gradatim minoribus, subintegris, omnibus margine crenulatis, basi decurrentibus; nervis flabellatim furcatis, infra prominulis, supra indistinctis; textura tenuiter herbacea, colore in sicco pallide viridi, paginis utrisque praesertim ad costulas nervasque subtus pilis mollibus, pallidis, luteis, adpressis sparse oblectis; soris parvis ad sinum segmentorum positus, indusiis brunneis, semicupuliformibus, sparse pilosis.

Kwangsi, north of Lu-chen, Chiao Tu, on old muddy wall, leg. *R. C. Ching* No. 5447, V, 28, 1928.

42. ***Microlepia pingpienensis*** Ching, sp. nov.

Rhizomate, stipite 50 cm vel ultra longo, 5 mm crasso, brunneo-stramineo, ad basin sparse strigoso, sursum nudo; lamina ca. 1 m longa, 60 cm lata, oblonga, acuminata, tripinnata; pinnis ca. 15-jugis, alternis, oblique patentibus, petiolatis (petiolo 5—7 mm longo), inferioribus ca. 20 cm a se distantibus, infimis paululum abbreviatis, mediis ca. 40—50 cm longis, 12—14 cm latis, late lanceolatis, acuminatis, basi utrinque aequali; pinnulis primariis ca. 20-jugis, 6—8 cm longis, 2.5 cm latis, lanceolatis, ad apicem longe acuminatis, basi utrinque fere aequali; pinnulis secundariis ca. 10-jugis, patentibus, 1—1.5 cm longis, 5 mm latis, oblongis, apice obtusis, minute dentatisque, basi inaequali, utroque profunde lobato-pinnatifidis; lobis ultimis oblongis vel obovatis, contiguis, denticulatis; nervis in lobis pinnatis, utrinque paulo prominulis; textura herbacea, colore in sicco obscure viridi, paginis praeter costas costulasque utrinque sparse breviter puberulas glabris; soris parvis, 1—2 pro lobo ad sinum positus, indusiis semicupuliformibus, pallide brunneis, glabris.

Yunnan austr.-orient., Ping-pien Hsien, 1000 m alt., leg. *R. C. Ching* No. 36, VII, 18, 1952.

45. ***Microlepia yunnanensis*** Ching, sp. nov.

Rhizomate repente, 4 mm crasso, sparse piloso vel subglabro; frondibus approximatis, stipite 40—50 cm longo, ca. 3 mm diametro, stramineo, subglabro, subnitido, parum scabro; lamina 70—80 cm longa, 22 cm medio lata, oblonga, acuminata, basin versus paululum angustata, tripinnata; pinnis ca. 15-jugis, obliquis, alternis, inferioribus 8 cm, sursum 4 cm a se distantibus, breviter petiolatis (petiolo 4 mm longo), basalibus ca. 10 cm longis, 4—5 cm latis, late lanceolatis, mediis similibus, 15—19 cm longis, 3—4 cm latis, ad apicem acumi-

natum parum falcatis, basi utrinque fere aequalibus, rotundato-cuneatis, bipinnatis; pinnulis primariis ca. 20-jugis, contiguis, patentibus, suboppositis, basali anteriori longiore 2.5—3 cm longa, ca. 1 cm lata, lanceolata, acuminata, erecta, rachim tegente, sequentibus brevioribus, 1.5—2 cm longis, 7—8 mm latis, apice acutis vel obtusiusculis, omnibus breviter petiolulatis, basi inaequalibus (latere anteriori auriculiformi, inferiori cuneata); pinnulis (segmentis) ultimis 6—7-jugis, contiguis, oblongis, basali anteriori majore, 7—8 mm longa, 3 mm lata, ceteris minoribus, integris, raro incisis, basi ad costam plus minusve decurrentibus; nervis tenuibus, utrinque indistinctis, obliquis, simplicibus aut furcatis, ad marginem apice elongato-incrassatis, superne pallidis, conspicuis; textura herbacea, colore sicco viridi, pagina supra ad nervas pilis sat longis, pallidis, adpressis perspersis, infra cum rachillis praesertim ad costas dense breviter puberula; soris parvis, in parte superiorum frondis sitis, sparsis, 1—2 pro segmento ad sinum positus, indusiis semicupuliformibus, dense puberulis.

Yunnan austr.-orient., Mengtze, Shing-an Chen, in wooded glens, leg. *Chu et Lee* No. 73, II, 15, 1954.

46. ***Microlepidia communis*** Ching, sp. nov.

Species *M. yunnanensi* Ching valde affinis, differt pinnis latioribus et pinnulis basalibus quam sequentibus multo longioribus acuminatisque.

Rhizomate repente, 6—7 mm crasso, atro-brunneo; frondibus solitariis vel distantibus, stipite ad 40 cm longo, 7 mm diametro, atro-brunneo, primum dense strigoso, aetate nudescente laevique; lamina ad 1 m longa, 40 cm lata, apice longe acuminata vel subcaudata, basin versus tripinnata; pinnis 20—25-jugis, alternis, obliquis, inferioribus ca. 10 cm a se distantibus, infimis magis abbreviatis, ca. 10 cm longis, sequentibus multo longioribus, 25—30 cm longis, 8—9 cm basi latis, e basi latissima deltoideo-lanceolatis, apicem pinnatifidum versus gradatim acuminatis, petiolo 1 cm longo, dense piloso suffultis, parte inferiore bipinnata; pinnulis primariis ca. 20-jugis, contiguis, alternis, obliquis, anadromice dispositis, basalibus longioribus, 5—6 cm longis, 2 cm latis, lanceolatis, acuminatis, petiolulatis, sequentibus brevioribus sed conformibus, apice breviter acutis, supremis pinnatifidis, obtusiusculis, sessilibus vel leviter adnatis; segmentis ultimis in pinnulis basalibus 6—7-jugis, oblongis, obliquis, basali anteriori majore, ad 1.5 cm longa, 8 mm lata, lobato-incisa, ceteris minoribus, obtusis, integris vel pauci-lobulatis, margine integris; nervis in pinnulis ultimis vel segmentis pinnatis, nervulis simplicibus vel furcatis, obliquis, infra prominulis, supra intra marginem apice elongato-incrassatis, pallidis, conspicuis; textura herbacea, colore in sicco viridi, pagina supra praeter costas persparse pilosas glabra, infra praesertim ad costas costulasque pilis sat longis, pallidis, adpressis oblecta; soris magnis, superficialibus, 3—6 pro pinnula ultima, indusiis semicupuliformibus, virentibus, pilosis.

Yunnan austr., Se-song-ban-nan, Yunnan Complex Expedition No. 923 (typus), 733.

47. ***Microlepidia tripinnata*** Ching, sp. nov.

Planta ad 1.5 m alta, stipite deest; lamina ultra 60 cm longa, 46 cm lata, tripinnata; pinnis numerosis, inferioribus suboppositis, 12—15 cm a se distantibus, superioribus alternis, approximatis, oblongo-lanceolatis, basalibus 30 cm longis, ca. 10 cm latis, petiolatis (petiolo 8 mm longo), mediis 25 cm longis, 6 cm latis, obliquis, longe acuminatis, petiolulatis (petiolo 5 mm longo), basi rotundo-cuneatis, utrinque fere aequalibus; pinnulis primariis ca. 20-jugis,