

灰白色的短柔毛,下面較密;叶軸和叶柄同色,粗糙,无毛,向上和羽軸同有棕色短毛均匀分布。孢子囊圓形,大,每裂片 1 个,近叶緣生,位于一回小羽片的中脉兩側,6—10 对,惟基部上側的末回裂片常有 1—2 对(或更多);囊羣盖浅碗形,灰綠色,有长毛。

产云南南部(思茅县南 64 公里,普藤坝)。生常綠林內,海拔 1100 米。上緬甸也有分布。

54. 隆脉鳞盖蕨

Microlepia crenato-serrata Ching, sp. nov.

根状莖橫走,粗 1.5 厘米,木質,密被棕色茸毛。叶近生,柄长达 90 厘米,基部粗 1.2 厘米,被与根状莖同样的毛,向上无毛,略粗糙,有光泽。叶片长逾 1 米,三回羽状,羽片 12—15 对,基部对生,向上为互生。中部羽片长 40 厘米左右,寬 12—14 厘米,长圓披針形,先端漸尖,柄长约 1 厘米,互生,上先出,相距 10—12 厘米,三回羽状深裂;一回小羽片約 20—25 对,互生,有极短柄,相距 2 厘米左右,基部上側一片較长,約 8 厘米,几与叶軸并行,自第二片向上长 6—7 厘米,寬 2 厘米左右,闊披針形,漸尖头,基部不对称,上側平截,下側广楔形,一回羽裂;二回小羽片 10—12 对,密接,基部上側一片較长,且与羽軸并行,向上的长 1—1.2 厘米,寬 4—6 毫米,先端圓而有尖鋸齿,基部下延,羽状深裂达中脉 1/2 处;小裂片边緣有矮鋸齿。羽片向頂部漸短,披針形,二回羽状深裂;一回小羽片除基部上側一片較长外,其余长 3—4 厘米,寬 1—1.2 厘米,闊披針形;末回裂片边緣有尖鋸齿。叶脉两面隆起,羽状分枝,达于鋸齿。叶厚草質,干后暗綠色,上下两面粗糙,有棕色短毛密生,叶軸下部和叶柄同色,上面密被棕色短毛。孢子囊羣生于小裂片基部上側近缺刻处,2—4 对;囊羣盖碗形,灰綠色,有毛。

特产云南南部(西双版纳)。

55. 阴脉鳞盖蕨

Microlepia ganlanbaensis Ching, sp. nov.

根状莖橫走,粗 7 毫米,被棕色短柔毛。叶二列疏生,柄长约 40 厘米,粗 6 毫米,禾稈色或淡棕禾稈色,光滑无毛。叶片长 70—85 厘米,寬 40—50 厘米,闊卵状长圓形,先端漸尖,三回羽状;羽片約 15 对,互生,斜向上,基部一对較短,长 22—24 厘米,寬 8 厘米,第二对向上长 27—30 厘米,寬 8 厘米左右,长圓披針形(先端为深羽裂的漸尖头),基部不等寬,柄长 1—1.5 厘米,相距 11 厘米左右,二回羽状深裂;一回小羽片約 18—20 对,基部上方一片較长,約 6—7 厘米,几与叶軸并行,第二片向上长 4—4.5 厘米,寬 1.5 厘米左右,长圓披針形,先端漸尖,有鋸齿,基部几等寬,上側平

截,下侧广楔形,无柄,互生,上先出,几开展,相距1.5—2厘米,羽状深裂几达小羽轴;末回裂片8—10对,基部上方一片略长,约1厘米,其余长5—7毫米,长圆形,先端圆而有3—4个齿牙,基部下延,多少合生,密接,两侧羽状浅裂或全缘,叶脉不显。羽片向顶部渐短,二回羽状深裂。叶薄草质,干后暗绿色或黄绿色,上面沿小羽轴及叶脉贴生灰白色短刚毛,下面被灰色细柔毛;叶轴、羽轴禾稈色,被棕色短柔毛。孢子囊羣小,生于末回裂片,远离边缘,2—3—4对;囊羣盖浅碗形,淡棕色,有毛。

产云南南部(车里县,橄榄坝)。生林中空地,海拔800米。

56. 热带鳞盖蕨

Microlepia speluncae (Linn.) Moore, Ind. Fil. (1857) 92; Bedd. Ferns Brit. Ind. (1883) 67; C. Chr. Ind. Fil. (1905) 428; Cop. Polyp. Philip. (1905) 56; Tard.-Blot et C. Chr. in Fl. Indo-Chine VII, ii (1939) 99; Tagawa in Acta Phytotax. et Geobot. X (1941) 197; H. Ito, Fil. Jap. Illustr. (1944) t. 6; DeVol, Ferns East Centr. China in Notes Bot. Chin. Mus. Heude No. 7 (1945) 87; Holt. Fl. Mal. II, Ferns Mal. (1954) 314; Sledge in Kew Bull. No. 3 (1956) 524——*Polypodium speluncae* Linn. Sp. Pl. II (1753) 1903——*Aspidium speluncae* Willd. Sp. Pl. V (1810) 269——*Davallia speluncae* Hook. et Bak. Syn. Fil. (1867) 100——*Dicksonia polypodioides* Hook. Sp. I (1846) 181, pro parte——*Microlepia polypodioides* Presl, Tent. Pterid. (1825) 125——*Davallia flaccida* R. Br. Prod. Fl. N. Holl. (1810) 157——*Microlepia flaccida* J. Sm. in London Journ. Bot. I (1842) 427——*Microlepia mollifolia* Tagawa in Acta Phytotax. et Geobot. V (1936) 189.

植株高可达2米,根状茎横走。叶疏生,柄长约50厘米,坚实,禾稈色,上面有稜沟,疏被灰棕色节状短毛。叶片长60—90厘米,宽30—40厘米,卵状长圆形,先端渐尖,三回羽状;羽片10—15对,下部的长28—30厘米,宽约10厘米,阔披针形,先端长渐尖,柄长1—1.5厘米,互生,斜向上,相距10—15厘米,二回羽状;一回小羽片15—20对,基部下侧一片略长,约4厘米,与叶轴并行,自第二片以上长2.5—3厘米,宽8—10毫米,阔披针形,渐尖头,基部不等宽,上侧近平截,下侧楔形,下延,无柄,相距1—1.5厘米,几开展,羽状深裂几达小羽轴;末回裂片6—8对,基部下侧一片略长,与羽轴并行,其余长7—8毫米,宽约4毫米,长圆形,先端圆而有尖锯齿,基部下侧平截,下侧直楔形,基部多少汇合,有缺刻分开,边缘圆浅裂;小裂片全缘或先端有2—3个矮钝齿。羽片向上渐短。叶脉下面稍隆起,羽状分枝。叶薄草质,干后黄绿色,上面有灰白细毛贴生,下面有灰白短柔毛密生。叶轴及羽轴禾稈色,有柔毛疏生。

19, 1953.

50.. **Microlepidia gigantea** Ching, sp. nov.

Rhizomate, breve, repente, crasso, lignoso, ramoso, ad apicem densissime tomentoso; frondibus numerosis, approximatis, stipite 65 cm longo, basi 1 cm crasso et dense piloso, sursum glabro, brunneo, nitido, supra profunde sulcato; lamina ad 1.5 m longa, 60 cm lata, ovato-oblonga, tripinnata vel ad basin subquadripinnatifida; pinnis usque ad 20-jugis, 35—45 cm longis, 14—16 cm latis, anguste oblongis, obliquis, inferioribus ca. 14 cm a se distantibus, petiolo 1—1.5 cm longo, 1.5 mm crasso suffultis; pinnulis primariis 20—30-jugis, basali anteriori majore 7—9 cm longa, ceteris minoribus, conformibus, 4—5 cm longis, ca. 2 cm latis, late lanceolatis, acuminatis vel acutis, sessilibus, basi inaequali latere inferiore breviter decurrentibus, utroque fere ad costam pinnatifidis; pinnulis (segmentis) ultimis utroque ca. 10, oblongis, apice rotundatis, basali anteriori majore, 1—1.2 cm longa, 5—6 mm lata, margine subcrenata vel inciso-crenata; nervis in segmentis pinnatis, nervulis furcatis, infra prominulis, supra obscuris; textura herbacea, colore in sicco virente, pagina supra subglabra; costis dense pilosis exceptis, infra ubique breviter puberula; soris minutis, ca. 3—6 pro segmento, superficialibus, indusiis semicupuliformibus, parvis, pallide brunneis, puberulis.

Yunnan austr.-orient., Poo-tang-pa, 64 km. south of Szemao, in mixed forest, 1100 m alt., leg. R. C. Ching No. 453, III, 11, 1956.

51. **Microlepidia crenato-serrata** Ching, sp. nov.

Rhizomate breve, repente, crasso, lignoso, ut basi stipitis pilis ferrugineo-brunneis densissime oblecto; frondibus distantibus, stipite 90 cm longo, 1.2 cm in diametro, uti rachi brunneo, subnitido, glabro sublaevique; lamina ca. 1 m longa, 70 cm lata, deltoideo-ovata, acuminata, tripinnata; pinnis 12—15-jugis (praeter jugum basale) alternis, mediis 40 cm longis, 12—14 cm latis, elongato-oblongis, acuminatis, petiolatis (petiolo 1 cm longo), 10—12 cm a se distantibus; pinnulis secundariis 20—25-jugis, alternis, breviter petiolulatis, 6—7 cm longis, 2 cm latis (basali anteriori majore), lanceolatis, acuminatis, basi subinaequalibus, contiguis; pinnulis ultimis 10—12-jugis, basali anteriori longiore, erecta, rachillas tegente, ceteris minoribus, conformibus, oblongis, obtusis, basi adnatis, latere inferiore breviter decurrentibus, ad medium lobatis; lobis 3-jugis, oblongis, obliquis, contiguis, margine creanto-serratis; nervis in segmentis pinnatis, crassiusculis, infra prominentibus; textura firmuliter chartacea, colore in sicco brunnescente viridi, paginis utrisque sat dense et breviter puberulis; soris ad sinum loborum sitis, uno pro lobo, indusiis semicupuliformibus, pallidis, breviter puberulis.

Yunnan austr., Se-song-ban-nan, Yunnan Complex Expedition No. 7405.

52. **Microlepidia ganlanbaensis** Ching, sp. nov.

Rhizomate repente, 7 mm crasso, pilis brunneis, brevibus sparse strigoso; frondibus distantibus, stipite 40 cm longo, 5—6 mm crasso, pallide stramineo, supra basin nudo laevique; lamina 70—80 cm longa, 40—50 cm medio lata, late ovato-oblonga, acuminata, tripinnata; pinnis ca. 15-jugis, alternis, oblique patentibus, ca. 10 cm a se distantibus, petiolo 1—1.5 cm longo, breviter tomentoso suffultis, basalibus paulo abbreviatis, 22—24 cm longis, 8 cm latis, sequentibus 27—30 cm longis, 8 cm latis, oblongo-lanceolatis, acuminatis, basi subinaequalibus, pinnatis; pinnulis 18—20-jugis, basali anteriori majore, 6—7 cm longa, 1.5 cm lata, oblongo-lanceolata, acuminata, ceteris minoribus, conformibus, basi fere aequalibus, adnatis vel saepe

ad rachillam breviter decurrentibus, utroque profunde pinnatifidis; segmentis 8—10-jugis, basali anteriori majore, ca. 1 cm longa, ceteris minoribus, 5—7 mm latis, oblongis, apice obtusis et 3—4-dentatis, lateribus subintegris; nervis utrinque obscuris; textura tenuiter herbacea, colore virente, paginis praesertim subtus dense et breviter puberulis; soris parvis, superficialibus, 5—7 pro segmento, indusiis semicupuliformibus, brunnescentibus, breviter puberulis.

Yunnan austr., Se-song-ban-nan, Ganlanba, in forest glens, 800 m alt., leg. C. W. Wang No. 79848, XI, 1936.

Hypolepis Bernh.

2. Hypolepis yunnanensis Ching, sp. nov.

Stipite ad 75 cm longo, 6 mm crasso, lignoso, castaneo-brunneo, tereti, supra profunde sulcato, supra basin glabro, laevique; lamina ampla, deltoidea, 90 cm longa, basi fere aequilata, acuminata, quadripinnata; pinnis ca. 20-jugis, alternis, obliquis, inferioribus 14 cm inter se remotis, basalibus maximis, fere ad 60 cm longis, 14 cm latis, oblongo-acuminatis, petiolo 6 cm longo, 3 mm crasso, glabro, castaneo-brunneo suffultis; pinnulis primariis 15-jugis, subalternis, patentibus, 5—6 cm inter se remotis, 8 cm vel ultra longis, 3 cm latis, lanceolatis, acuminatis, petiolulatis (petiolulo 3 mm longo), basi utrinque aequaliter truncatis; pinnulis secundariis ca. 15-jugis, 1.5—2 cm longis, 4 mm latis, lineari-lanceolatis, acutis, patentibus, a se fere remotis, sessilibus vel leviter adnatis, haud decurrentibus, profunde pinnatifidis; segmentis ultimis ca. 10—12-jugis, oblongis, obtusis, integris; nervis in segmentis pinnatis, indivisis, utrinque obscuris; textura herbacea, colore in sicco opaca, utrinque glabra; rachi, rachillis costisque infra sparse setaceis scabrisque, supra sparse rufo-strigosis; soris in segmentis singulis vel binis, basalibus, margine segmentorum pinnularum vix reflexo.

Yunnan austr.-orient., Ping-pien Hsien, Ta-wei Shan, leg. R. C. Ching, VII, 17, 1952.

5. Hypolepis tenera Ching, sp. nov.

Stipite 60—70 cm longo, 3.5 mm crasso, fusco-brunneo, glabro, scabro, subnitidoque; lamina 60 cm longa, 40 cm basi lata, deltoideo-oblonga, acuminata, tripinnata; pinnis ca. 15-jugis, patentibus, oppositis vel sursum suboppositis, petiolatis, inferioribus 9—10 cm inter se remotis, basalibus majoribus, ad 24 cm longis, 5 cm medio latis, basin versus parum angustatis, oblanceolatis, rachillis fusco-brunneis, tenuibus, ca. 1 mm crassis, infra teretibus, subglabris, supra sulcatis et strigosis; pinnulis primariis ad 25-jugis, alternis, patentibus, a se separatis, mediis ad 3 cm longis, 1 cm basi latis, e basi utrinque aequaliter truncata et latiore lanceolatis, acuminatis, breviter petiolulatis, deorsum abbreviatis, inferioribus ca. 2 cm longis, omnibus pinnatis; pinnulis ultimis utroque costae latere infra apicem pinnatifidum ca. 10-jugis, 4—5 mm longis, 1.5 mm latis, lineari-oblongis, patentibus, basi adnatis, sed non decurrentibus, margine ubique serratis; nervis in pinnulis ultimis a costula oblique egredientibus, furcatis, venulis plerumque 2 in dentes excurrentibus, supra obscuris, infra perspicuis; textura folii herbacea, paginis utrisque pillis rufescentibus sat longis sparse pilosis; soris globosis, sat magnis, brunneis, 2 pro segmento, basalibus, dentibus parum reflexis et sorum partim tegentibus.

Yunnan austr.-orient., Ping-pien Hsien, Ta-wei Shan, 1200 m alt. leg. R. C. Ching, VII, 21, 1952.