

32. 針毛鱗蓋蕨

Microlepidia trapeziformis (Roxb.) Kuhn, Chaetopt. (1882) 347; C. Chr. Ind. Fil. (1905) 428; v. A. v. R. Handb. Mal. Ferns (1908) 313; Tard.-Blot et C. Chr. in Fl. Indo-Chine VII, ii (1939) 96; Holt. Fl. Mal. II, Ferns Mal. (1954) 313; Sledge in Kew Bull. No. 3 (1956) 526, pro parte—*Davallia trapeziformis* Roxb. in Calc. Journ. IV (1844) 516—*Microlepidia rhomboidea* var. *trapeziformis* Prantl in Arb. Bot. Gart. Breslau I (1892) 31—*Microlepidia yaoshanica* Ching in Bull. Fan Mem. Inst. Biol. new ser. I (1949) 299.

根狀莖橫走，深褐色，粗約6厘米，疏被灰色長剛毛。葉遠生，柄長30—60厘米，粗3—4毫米，禾稈色至淡灰禾稈色，几光滑，基部被疏毛及其粗糙的痕，下面圓形，上面有一條深狹的縱溝；葉片為闊卵狀長圓形，近尾狀漸尖頭，長50—60厘米，中部寬28—36厘米，三回羽狀；羽片15對或更多，互生，斜向上，相距6—9厘米，柄長約1厘米，下部的6—7對為二回羽狀，其上各對為一回羽狀，基部一對稍短縮，第二對長17—24厘米，基部以上寬5—7厘米，闊披針形至狹長圓披針形，長漸尖頭，基部闊，不對稱，下側楔形，上側耳形，與羽軸平行，并常復蓋葉軸下面，二回羽狀；一回小羽片約20余對，互生，上先出，密接，開展，長圓形，長2.2—4厘米，寬1—1.5厘米，圓頭或急尖頭，有短柄，基部下側一片較長，基部不對稱，下側斜，上側截形，并與羽軸平行，一回羽狀或羽裂達到有狹翅的小羽軸；末回小羽片5—10對，斜向上，接近，長圓形，長約5—7毫米，寬3—4毫米，圓頭，基部楔形，沿小羽軸多少下延，全緣或有一二淺缺裂，上方的比下方的稍大，基部下側一片最大，與小羽軸平行，向頂一邊往往有二三小裂片。葉脈纖細，兩面明顯，羽狀分枝，單一，或在大的小羽片為分叉，不達葉邊，頂端有加厚的長水囊。葉為草質，干后暗綠色，上面有一二長針狀毛疏生或几光滑，下面葉脈上密生灰色有光亮的伏貼的針狀長毛，各回羽軸下面被有同樣的毛。孢子囊羣圓形，小，生于末回小羽片的上方，每片1個，少有2—3個，遠距葉邊；囊羣蓋小，淺杯形，寬過于深，淡綠色，有長毛。

产广东、广西、海南島、台湾、云南东南部。生林下沟中。越南、印度南部、緬甸、泰国及南洋羣島、菲律賓都有分布。

33. 淺杯鱗蓋蕨

Microlepidia ampla Ching, sp. nov.

植株高1.5米。根狀莖未見，葉柄粗壯，長70厘米，徑約7毫米，基部疏被栗色長毛，向上脫落，有粗糙的斑痕，上部與葉軸同被棕色短毛；葉片廣卵狀長圓形，長1

米以上,寬达 50 厘米以上,基部稍狭,三回羽状;羽片 15 对,互生,下部的相距 22 厘米,开展,有柄(长 1 厘米),卵状披针形,基部以上一对最大,长 32 厘米,寬約 9 厘米,二回羽状;一回小羽片 25 对,狭长圓披针形,长 4 厘米,寬 1.7 厘米,基部下侧一片长达 7 厘米,先端急尖,基部不对称,上侧平截,与羽轴并行,下侧广楔形,一回羽状;末回小羽片 6—7 对,在基部下侧的有 10 对,接近,长圆形至长圓倒卵形,先端钝圆,基部楔形,下延,基部下侧一片最大,常有二对缺裂或深裂,以上各片渐缩小,仅上侧有一二枚缺裂,全缘。叶脉两面明显,在缺裂上为羽状,細脉分叉或单一。叶革质,干后上面黑绿色,下面棕绿色,叶两面几光滑,仅脉上有一二灰白色硬毛疏生,叶轴、羽轴两面及小羽轴下面密被褐色短毛。孢子囊羣小形,着生缺刻基部以下;囊羣盖浅杯形,棕色,几光滑。

产海南島。生溪边。特产。

34. 深杯鳞盖蕨 杯状鳞盖蕨(中国植物分类学报,第八卷)

Microlepia scyphoformis Ching et C.H. Wang in Acta Phytotax. Sinica VIII (1959) 139, t. 19, f. 14.

体高 80—120 厘米。根状茎匍匐,粗大,直径 6—8 毫米,深褐色,被浅褐色节状而光亮的长毛。叶远离,相距約 1.5—2 厘米,柄长约 30 厘米,上部直径 4—5 毫米,坚硬,直立,浅褐色,近基部深褐色,全部疏被节状几为贴生的浅黄色短毛,上面有狭沟;叶体卵形,渐尖头,长 80—90 厘米,寬約 35 厘米,先端渐狭,为羽状分裂的尖尾头,頂部为一回羽状,上部为二回羽状,中部以下为三回羽状;羽片約 18—20 对,闊披针形,下部三对向下逐渐缩短,基部一对长仅 6 厘米,中部的长 15—20 厘米,寬約 3.5 厘米,先端长渐尖而有浅裂,上部稍向上弯而呈镰刀状,有短柄,下部的羽片远离,相距約 8 厘米,互生;一回小羽片长圓状披针形,长 1.5—2.5 厘米,寬約 8 毫米,基部較寬,先端钝圆而有浅钝齿,两侧不对称,其上侧为截形而与一回羽轴并行,其下侧斜楔形,下部的有短柄,上部的几无柄,羽状深裂达到有翅的中肋,几开展,稍远离,相距約 8 毫米,基部下侧的一个小羽片較长;末回小羽片或裂片长圆形至斜方形,长 4—6 毫米,寬 2.5—4 毫米,基部下侧一个最大,先端圆,基部贴着小羽轴,其上侧圆形,下侧下延,边缘近全缘至浅波浪状或浅裂,接近。叶为坚革质,干后呈暗绿色,叶脉下面疏被贴着的灰色短毛,上面几光滑;叶轴、一回羽轴及中脉上面有浅沟而被疏毛,下面密被浅黄色而开展的毛。叶脉明显,羽状分枝,单一或分叉。孢子囊羣近叶缘生,着生于小脉先端,每一末回小羽片或裂片上有 1—5 个;囊羣盖杯状,基部圆形,頂部截形,灰绿色,质厚,稍被长毛或几光滑。

cm longis, 9 mm latis, obtusis, basi inaequalibus, antice truncatis, postice oblique rectis et anguste decurrentibus, margine leviter lobulatis, lobulis dentatis; nervis in pinnulis pinnatis, nervulis iterum pinnatis vel furcatis, obliquis, utrinque prominulis; textura chartacea, colore in sicco obscurius virente, pagina supra glabra, lucida, inferne ad costas nervasque pilis sat longis, pallidis, patentibus modeste strigosa; soris submarginalibus, secus marginem superiorem 5—6, inferiorem 3—4 ad sinum positus, indusiis semicupuliformibus, pallidis, persparse et breviter puberulis.

Kwangtung, Wei-yang Hsien, Kau-lung-fung, leg. W. T. Tsang No. 20005, (typus), IV, 13, 1932. Kwangsi 12 km. north of Lu-chen, Lion's Hill, 1000 m alt., leg. R. C. Ching No. 5426, V. 28, 1928.

27. **Microlepidia trichoclada** Ching, sp. nov.

Rhizomate late repente, 4—5 mm crasso, nigrescente, radicoso, ad apicem pilis atro-rufis dense oblecto; frondibus distantibus, stipite 60—65 cm longo, 4 mm crasso, ad basin subglabro asperoque, sursum glabro laevique, stramineo; lamina ovato-deltaeidea, tripinnata, acuminata; pinnis ca. 15-jugis, obliquis, alternis, inferioribus, ca. 10 cm inter se remotis, petiolatis (petiolo ca. 1 cm longo), 16 cm longis, 6 cm basi latis, lanceolatis, acuminatis, basi latiore utrinque aequalibus; pinnulis primariis ca. 20-jugis, alternis, a se separatis, patentibus, breviter petiolulatis, basalibus 4 cm longis, 1.3 cm latis, sequentibus gradatim abbreviatis, acuminatis, acroscopica productis, basiscopica cuneatis, pinnatis; pinnulis ultimis 6—8-jugis, oblongo-cuneatis, obtusis, basi decurrentibus, contiguis, basali anteriori majore, ad 9 mm longa, pauci-lobato-incisa, ceteris minoribus, integrisque; nervis 3—4-jugis, simplicibus aut basali anteriori furcatis, obliquis; textura herbacea, colore in sicco virente, pagina supra glabra, raro ad costas pilis sat longis albidis perspersis, infra ad costas nervasque pilis longis, albidis, luteis, adpressis densissime oblecta; soris uno pro pinnula ad marginem superiorem positus, indusiis semicupuliformibus, dense et longe strigosis.

Yunnan austr., Se-song-ban-nan, Yunnan Complex Expedition No. 1528.

28. **Microlepidia subrhomboides** Ching, sp. nov.

Rhizomate ? stipite ca. 40 cm longo, 3 mm crasso, pallide brunneo, supra basin glabro, subnitido; lamina oblongo-ovata, 62 cm longa, 28 cm basi lata, tripinnata; pinnis ca. 20-jugis, alternis, obliquis, inferioribus suboppositis, 8—10 cm inter se remotis, superioribus approximatis, omnibus petiolatis (petiolo 5 mm longo), lanceolatis, longe acuminatis, inferioribus ad 19 cm longis, 7.5 cm latis, sequentibus gradatim abbreviatis, acuminatis; pinnulis primariis ad 16-jugis, approximatis, inferioribus suboppositis, late lanceolatis, 4.3 cm longis, 1.6 cm basi latis, acutis vel breviter acuminatis, sessilibus, basi utrinque inaequalibus, antice truncatis, postice obliquis, profunde ad costam anguste alatum pinnatifidis; segmentis 5—7-jugis, oblongis vel oblongo-obovatis, obtusis, integris vel 1—2 incis, basali anteriori majore, 1 cm longa, 5 mm lata; nervis in segmentis 3—4-jugis, simplicibus aut furcatis, obliquis, infra prominulis, supra vix notatis; textura herbacea, colore in sicco flavesciente viridi, paginis utrisque subglabris, costis aut nervis persparse strigosis exceptis; soris parvis, superficialibus, 5 in segmento acroscopico, 1—2 in sequentibus, indusiis semicupuliformibus, brunneis, parce hirsutis.

Yunnan occid., from Lung-ling to Teng-chung, leg. R. C. Ching No. 50678, XI, 1952.

30. **Microlepidia ampla** Ching, sp. nov.

Rhizomate, stipite ad 60 cm longo, 5—6 mm crasso ut rachi stramineo et breviter griseo-strigoso; lamina ampla, ad 1 m longa, 60 cm medio lata, oblongo-ovata, acuminata, tripinnata; pinnis ca. 10—14-jugis, oblique patentibus, alternis, inferioribus 16 cm a se distantibus, petiolo 1—12 cm longo, 1.5 mm crasso, stramineo, breviter et sparse villosa suffultis, infimis parum abbreviatis, sequentibus 30—34 cm longis, 8—10 cm latis, oblongo-lanceolatis, acuminatis, basi utrinque fere subaequalibus, subtruncatis; pinnulis primariis 20—25-jugis, alternis, 2.5 cm inter se remotis, patentibus, breviter petiolulatis, 4—5 cm longis, ca. 2 cm latis, jugis basalibus parum longioribus, late lanceolatis, obtusis, basi utrinque inaequalibus, acroscopica productis; pinnulis (segmentis) ultimis ca. 6-jugis (in pinnula basali acroscopica 8—9-jugis), subrhomboideo-oblongis, basali anteriori 1.2 cm longa, 7 mm lata, sequentibus minoribus, obtusis, basi breviter cuneatis et ad costam decurrentibus, margine inferiore fere rectis integrisque, superiore lobato-incisis, vel pauca crenato-incisis, interno superiore recto costae parallelis; nervis in segmentis 3—4-jugis, simplicibus aut furcatis, obliquis, infra prominulis, supra ad apicem elongato-incrassatis, pallidis, notatis; textura herbacea, colore in sicco obscurius viridi, inferne ad costas costulasque molliter sed sat sparse villosa, superne ad costas pilis pallidis perpaucis instructa, aliter glabra; soris superficialibus, supra punctatis, 5—6 in segmentis basalibus anterioribus, 3—4 in sequentibus, 1 in supremis, indusiis semicupuliformibus, pallidis, plus minusve hirsutis.

Hainan, without locality, by stream side, leg. *C. Wang* No. 35259, XII, 9, 1933; *F. A. McClure* No. 9480.

31. ***Microlepidia szechuanica*** Ching, sp. nov.

Rhizomate late repente, 5 mm crasso, atro-brunneo, pilis rufo-brunneis, rigidis obtecto; frondibus distantibus, stipite ca. 50 cm longo, 3—4 mm diametro, atro-brunneo, supra basin glabro et scaberulo; lamina ad 70 cm longa, 40 cm basi lata, ovato-oblonga, acuminata, tripinnata; pinnis 12—14-jugis, alternis, obliquis, 8—9 cm inter se remotis, petiolo 1 cm longo, dense piloso ca. 1 mm diametro suffultis, basalibus vix abbreviatis, inferioribus 25—28 cm longis, 7—8 cm latis, e basi latiore lanceolatis, ad apicem acuminatis et subfalcatis, basi utrinque aequalibus; pinnulis primariis ultra 20-jugis, alternis, obliquis, contiguis, basalibus 4—5 cm longis, 1.2—1.5 cm latis, sequentibus gradatim abbreviatis, e basi inaequali et latiore lanceolatis, subfalcatis, breviter acuminatis, omnibus breviter petiolulatis, profunde ad costam pinnatifidis; pinnulis (segmentis) ultimis 6—8-jugis, oblongis, obliquis, confertis, acroscopica majore, 1—1.2 cm longa, 5—6 mm lata, obtusa, margine superiore saepe pauci-incisa et rachillas tegente, sequentibus gradatim minoribus, basi cuneatis et decurrentibus, margine integris, apice pauci-dentatis; nervis in segmentis simplicibus, obliquis, utrinque prominulis, ad apicem in hydathodas punctatas pallidas terminantibus; textura firmiter herbacea vel chartacea, colore in sicco viridi, pagina superiore glabra, inferiore ad costas pilis pallidis, brevissimis perparce conspersa; rachi rachillisque supra glabris, infra dense puberulis; soris parvis, superficialibus, plerumque 5 in segmentis acroscopice, 3—2 in mediis vel 1 in supremis, indusiis reniformibus, basi latissima adnatis, cetera liberis, pallide viridibus, glabris.

Szechuan, Omei Shan, Shan-tsing-koo, under woods, 800 m alt., leg. *R. C. Ching*, No. 210, III, 1956.

33. ***Microlepidia formosana*** Ching, sp. nov.