

植株高約 1.5 米。叶大,二回羽状;羽片长 55 厘米,寬 23 厘米,长圓形,向基部稍狭,羽軸棕禾桿色,光滑,无鱗片,向頂端稍有狭翅;小羽片約 25 对,互生,近于开展,相距 2 厘米,中部的长 12—13 厘米,寬 1.1—1.3 厘米,基部的长 7 厘米,狭披針形,短漸尖头,基部略呈心脏形,上側截形,下側近戟形,有长约 3 毫米的小柄,边缘基部以上有闊三角形的尖齿牙,不育頂端有大而銳的粗鋸齿。叶脉略开展,二叉或下部的往往二回分叉,显明,下面尤显,向頂部几不弯弓。叶厚紙質,干后綠色,下面为浅綠色,无鱗片。孢子囊羣綫形,长约 2 毫米,彼此多少分开,由 14—16—20 个孢子囊組成,向边缘达于鋸齿的基部或稍进,因此,除鋸齿外,无不育边缘的存在。

产于四川(峨眉山山麓,报国寺)。

药用,叶晒干制成面,加党参治目疾;根状莖可通經利血,土名“黑蕨筋”。特产。

53. 长柄观音座莲 馬蹄蕨(粵)

Angiopteris longipetiolata Ching, sp. nov.

植株高大,高約 2 米以上。叶为二回羽状;羽片互生,狭长圓形,中部以上較寬,向下稍变狭,长约 55 厘米,上部寬約 16 厘米,基部寬約 10 厘米,具长羽柄(长 18—23 厘米);小羽片約 20 对,下部互生,向上对生,平展,上部的稍向上斜,具短柄,相距 1.5—1.7 厘米,上部的較长,达 9.3 厘米,中部的 7 厘米,下部的 5 厘米,寬 1.1—1.4 厘米,披針形,向頂端长漸尖,基部略为圓形,頂生小羽片分离,具短柄,与下面的小羽片同形;叶緣具有規則的鈍鋸齿,漸尖头,具三角形銳齿。叶脉上面不明显,下面明显,相距 1 毫米或稍近,一般为分叉或单一,頂端向上稍弯而达于齿端,沒有倒行假脉。叶草質,上面綠色,下面淡綠色;叶軸光滑,干时褐色,粗約 1.1 厘米,羽柄光滑,腹部具縱沟,下部具气囊孔(由小羽片退化而成),粗約 3 毫米,干后淡褐色,羽軸向上变細,頂部具狭翅。孢子囊羣长圓形,长 1—1.5 毫米,彼此分开,有时接近,距边缘約 0.5 毫米,由 8—10 个孢子囊組成。

特产于广东北部(龙头山)。

54. 刺柄观音座莲

Angiopteris muralis Ching, sp. nov.

植株高大,高約 2 米以上。叶为二回羽状;羽片互生,长约 68 厘米,綫状长圓形,中部較寬,約 13 厘米,向两端漸变狭,基部和頂部寬約 7 厘米,羽柄长约 2 厘米;小羽片約 37 对,互生或向上部对生,下部的平展,中部以上的稍向上斜,基部的二对长约 4 厘米,寬約 1.7 厘米,椭圆状卵形,下部的小羽片較短,为寬披針形,长 5—6 厘米,寬 1.7—1.8 厘米,中部的稍长,为披針形,长 6.3—7.5 厘米,寬約 1.6 厘米,上部的与中部

latas formantibus, 1 mm e margine remotis.

Yunnan austr.-orient., Hokou, Ko-shiu, leg. *Tsai Ke-hwa* No. 409.

50. **Angiopteris angustipinnula** Ching, sp. nov.

Planta ad 2 m alta, stipite 2.5 cm diametro, sordide brunneo, subglabro; lamina ampla, bipinnata; pinnis ad 75 cm longis, 20 cm latis, anguste oblongis, ad basin versus vix angustatis, petiolo ad 4 cm longo, supra geniculum nigrescentem pallide stramineo, sursum non marginato; pinnulis ca. 23-jugis, sessilibus, inferioribus patentibus, parum vel vix abbreviatis, 2.5—3 cm inter se remotis, superioribus obliquis, mediis ad 11 cm longis, 9—11 mm latis, lineari-lanceolatis, ad apicem versus gradatim acuminatis, basi rotundo-truncatis, marginibus minute et dense serrulatis; textura firmiter herbacea, utrinque pallide viridi, ad costas squamulis rufis, filiformibus subtus sparse vestitis; venulis subrecto-patentibus, plerisque furcatis, rectis, infra distinctis, mesophyllo obscurioribus, supra notatis, striis recurrentibus nullis; soris contiguus, oblongis, ca. 1.6 mm longis, submarginalibus, sporangiis 10—12.

Yunnan austr., Yan-shan, Pie-shih-eih, alt. 1200 m, leg. *C. W. Wang* No. 84794, under dense forest. The swollen base edible.

51. **Angiopteris pingpienensis** Ching, sp. nov.

Planta ad 2 m alta, stipite incompleto, in specimine ad 1.5 cm crasso, fusco-brunneo, glabro; lamina ampla, bipinnata; pinnis alternis, subpatentibus, elongato-oblongis, ad 60 cm longis, 16 cm medio latis, inferioribus parum brevioribus, petiolo 3 cm longo, 5 mm crasso, stramineo, glabro suffultis; pinnulis 20-jugis, suboppositis, ca. 2 cm inter se remotis, sessilibus, inferioribus parum brevioribus, infimis 6—7 cm longis, patentibus vel subdeflexis, sequentibus gradatim majoribus, supremis 10 cm longis, 1.3—1.5 cm latis, e basi subrotundata lineari-lanceolatis, acuminatis, obliquis, margine integris, apice paulo serrulatis; venulis subpatentibus, furcatis aut simplicibus, mesophyllo obscurioribus, supra notatis, infra distinctis, ad marginem parum curvatis, striis recurrentibus nullis; textura folii herbacea, supra obscura, infra farinaceo-olivacea, ad costas praesertim basin pinnularum paleis parvis rufis filiformibus persparse oblecta; soris contiguus, oblongis, 1.7 mm longis, lineas continuas e basi usque ad apicem pinnularum occupantibus, margini proxime approximatis, sporangiis 16—18.

Yunnan austr.-orient., Ping-pien Hsien, by stream side, alt. 1200 m, leg. *H. T. Tsai* No. 55230, V, 19, 1934.

52. **Angiopteris petiolulata** Ching, sp. nov.

Species gregis *A. omeiensis* Ching, differt pinnulis magis longioribus, versus basin pinnarum plus minusve abbreviatis; margine acute serratis, basi longe petiolulatis, subcordatis, venulis laxioribus, basalibus vel saepe jugis inferioribus bis dichotome furcatis, soris margini proxime approximatis.

Szechuan, Omei Shan, vicinity of Pao-ko-sze, alt. ca. 800 m, as a medicine, leg. *Chu Chiao-yi* No. 468, VI, 13, 1956.

53. **Angiopteris longipetiolata** Ching, sp. nov.

Planta ad 2 m vel ultra alta, stipite deest, rachi 1 cm crassa, fusco-brunnea, glabra; lamina ampla, bipinnata; pinnis alternis, a rachi recte patentibus, 55 cm longis, 16 cm medio latis, anguste oblongis, longe petiolatis, petiolo 18—23 cm longo, 2.5 mm crasso,

brunneo-stramineo, glabro sed sparse asperulo suffultis, rachillis tenuibus, ca. 2 mm crassis, utroque latere marginatis, ad apicem anguste alatis; pinnulis ca. 20-jugis, patentibus, oppositis, vel inferioribus subalternis ca. 1.5 cm inter se remotis, lanceolatis, acuminatis, ad apicem subfalcato-incurvatis, omnibus similibus, 9 cm longis, 1.3 cm latis, infimis brevioribus (5 cm longis), basi subrotundatis, breviter petiolulatis, margine crenulato-dentatis; venulis subpatentibus, furcatis, raro simplicibus, supra notatis, infra distinctis et quam parenchymate obscurioribus, ad apicem paulo curvatis, striis recurrentibus nullis; textura folii herbacea, in sicco supra obscure et infra pallide viridi, glabra; soris oblongis, approximatis, 0.5 mm e margine remotis, sporangiis 8—10.

Kwangtung, Lung Tau Shan, Iu Village, *Lingnan* (*Tso and Tsang*) No. 12114, V, 26, 1924, in ravine.

54. **Angiopteris muralis** Ching, sp. nov.

Planta ad 2 m alta, stipite incompleto, in specimine 1.5 cm crasso, pallide brunneo, striis latis transversis magis horrido; lamina ampla, bipinnata; pinnis anguste oblongis, 68 cm longis, 13 cm medio latis, deorsum admodum decrescentibus, petiolo 2 cm longo, 4 mm crasso ut rachillis spinis brevibus rectis sat densius asperulo, ad apicem rachillae utroque latere alato; pinnulis ca. 37-jugis, alternis vel ad apicem oppositis, patentibus, contiguis, inferioribus abbreviatis, infimis 4—5 cm longis, 1.7 cm latis, oblongis, cuspidatis, sequentibus gradatim majoribus, mediis 6.5—7.5 cm longis, 1.6 cm latis, late lanceolatis, rectis vel interdum leviter subfalcatis, breviter acuminatis, basi subrotundatis, pinnulis supremis terminalique inferioribus minoribus, 4—5 cm longis, 1—1.2 cm latis, basi inaequali ad rachillam alatum adnatis, marginibus regulariter crenato-dentatis; venulis patentibus, plerisque furcatis rarius simplicibus, ad apicem vix curvatis, quam parenchymate obscurioribus, striis recurrentibus nullis vel obsoletissimis; textura herbacea, in sicco pallide viridi, ad costas inferne paleis parvis rufis filiformibus sparsis obtectis; soris contiguis, linearibus, 1.5—2 mm longis, lineas interruptas, irregulares secus marginem occupantibus, 1.5 mm e margine remotis, sporangiis 12—16.

Kwangtung, Wang Hang, Tai Mu Shan, leg. S. P. Kq No. 51242, in ravine, III, 28, 1931.

55. **Angiopteris shanyuanensis** Ching, sp. nov.

Planta verisimiliter ad 2 m alta, stipite incompleto, parte superiore ca. 1 cm diametro, fusco-brunneo, glabro, supra profunde sulcato; lamina ampla, ultra 1 m longa, deltoidea, bipinnata; pinnis lateralibus 6-7-jugis, alternis, basalibus maximis, ultra 60 cm longis, 22 cm medio latis, elongato-oblongis, basin versus vix angustatis, petiolo 3 cm longo, 3 mm crasso, stramineo, glabro suffultis; pinnulis ad 30-jugis, patentibus, oppositis, 2 cm inter se remotis, breviter petiolulatis, mediis 11 cm longis, 1.5 cm latis, e basi oblique cuneata lineari-lanceolatis, acuminatis, rectis vel interdum ad apicem parum subfalcato-incurvatis; pinnulis supremis terminalique gradatim minoribus, 3—5 cm longis, 1 cm latis, basi cuneatis, ad rachillam late alatum adnatis, pinnis superioribus parum minoribus, marginibus cartilagineo-incrasatis, ubique argute serratis, apice grosse serratis; costis rectis, utrinque elevatis, inferne pallide purpurascens; venulis subpatentibus, furcatis aut simplicibus, mesophyllo concoloribus, inferne prominulis, superne notatis, parte superiore parum curvatis, apice in dentes