

叉状,稍斜展,直达叶緣。叶草質或紙質,上面綠色,无毛,下面沿小羽軸、中脉、側脉及叶緣疏被棕色星状毛,叶軸下面圓,上面平,有边,棕色,后变光滑,一回羽軸禾稈色,粗2—3.5毫米,側面邻近小羽片处被棕色星状毛。孢子囊羣圓形,棕色,一列,位于中脉及叶緣之間,着生于基部上側小脉上,由4—5个孢子囊組成。

产海南島(感恩,尖峯岭)。越南、老撾、柬埔寨也有。

## 2. 越北里白

*Hicriopteris tamdaoensis* Ching et Chiu, sp. nov.

植株高大,約3米以上。叶二回羽状;羽片長約1.5米以上;小羽片多数,互生,相距約5.5厘米,几开展,柄長約4毫米,長22—24厘米,寬約4厘米,披針形,向頂端漸尖,基部不变狹,羽状深裂几达小羽軸;裂片約40对,互生,長1.8—2.3厘米,寬4毫米,披針形,平展,基部的几不縮短,頂圓,微凹,基部汇合,缺刻尖狹,邊緣全緣,干后稍內捲。中脉上面平,下面凸起,側脉两面均不太明显,近水平状斜展,叉状,直达叶緣。叶为紙質,上面綠色,无毛,上面沿小羽軸、中脉及側脉疏被棕色星状毛。一回羽軸褐色,下面圓形,上面稍扁,有柄,側面近小羽片处被紫棕色星状毛,后变光滑,孢子囊羣小,一列,位于叶緣和中脉之間,着生于每組的上側小脉上,由4个孢子囊組成。

产越南北部(东京, Tamdao, 接近中国边界)。海拔900米。

本种也可能生在我国广西南部及云南东南部,故一併列入本志。

## 3. 中华里白(中国主要植物图說,蕨类植物門)

*Hicriopteris chinensis* (Ros.) Ching in Sunyatsenra V (1940) 279; 傅书遐, 中国主要植物图說(蕨类植物門)(1957) 34 頁, 39 图——*Gleichenia chinensis* Ros. in Fedde, Repert. sp. nov. XIII (1913) 120; Tard.-Blot et C. Chr. in Fl. Indo-Chine VII, ii (1939) 47; Ching in Bull. Fan Mem. Inst. Biol. Bot. ser. X (1940) 2.

植株高約3米。根状莖橫走,粗約5毫米,深棕色,密被棕色鱗片。叶片巨大,二回羽状;叶柄深棕色,粗5—6毫米或过之,密被紅棕鱗片,后几变光滑;羽片長圓形,長約1米,寬約20厘米;小羽片互生,多数,相距2.2—3.2厘米,具极短柄,長14—18厘米,寬2.4厘米,披針形,頂端漸尖,基部不变狹,羽状深裂;裂片稍向上斜,互生,50—60对,長1—1.4毫米,寬2毫米,披針形或狹披針形,頂圓,常微凹,基部汇合,缺刻尖狹,邊緣全緣,干后常內捲,中脉上面平,下面凸起,側脉两面凸起,明显,叉状,近水平状斜展。叶堅紙質,上面綠色,沿小羽軸被分叉的毛,下面灰綠色,沿中脉、側脉及邊緣密被星状柔毛,后脫落。叶軸褐色,粗約4.5毫米,初密被紅棕色鱗片,邊緣

lanceolatis, pectinato-pinnatifidis, apice in caudam linearem 4—5 cm longam 4 mm basi latam subito contractis; pinnulis 52-60-jugis, linearibus, ad 5.4 cm longis, 4 mm latis, suboppositis, saepe irregulariter inaequilongis, recte patentibus, basi dilatatis, inferioribus acroscopicis diminutis, basiscopis non abbreviatis, apice obtuso profunde bifidis, spatio angustato basi rotundata interjectis, margine integris, angustissime recurvato-cartilagineis; costa 1.5 mm crassa, straminea, nuda, inferne tereti, superne applanato-convexa; costulis segmentorum subpurpurascenti-stramineis, infra elevatis, supra latius sulcatis; nervis obscuris vel parum prominulis, subobliquis, bis furcatis, venulis tenuibus, densis, parallelis; textura folii firmiter chartacea, utrinque glaberrima, superne olivaceo-viridi, inferne glaucino-viridescente; soris parvis, in flexura venulae anteriorae utriusque costulae submedialibus, sporangiis 5—8, stellatim ordinatis nudisque.

Yunnan austr.-orient., Hokou, Pa-tia, leg. *Tsai Ke-hwa* No. 553, alt. 120 m, IV, 28, 1953, in thickets, by the edge of forest.

### **Hicriopteris Presl**

#### **2. Hicriopteris tamdaoensis** Ching et Chiu, sp. nov.

Species gregis *D. bloiianae* (C. Chr.) Ching, differt dimensione multo majore, pinnulis lateralibus ad 24 cm longis, 3.5 cm latis, segmentis ultimis 2 cm vel ultra longis, basalibus haud abbreviatis.

Tonkin, Tamdao (prope Prov. Yunnanae), No. 594 ex Herb. de l'Ecole Supérieure d'Agriculture et Sylviculture (Hanoi).

#### **4. Hicriopteris rufa** Ching, sp. nov.

Planta ad ca. 50 cm alta, stipite 30 cm longo, 3.5 mm crasso, tereti, nigrescente brunneo ut rachi nudo et densius asperulo; pinnis in specimine 2-jugis, internodio 17 cm longo, brunneo-stramineo, primum paleis 4 mm longis, e basi rotundata peltata lanceolatis, nigris, nitidis, densissime ciliatis, cillis rufo-ferrugineis patentibus instructo, demum nudesciente et densius asperescente; pinnis duabus superioribus divaricatis, 32 cm longis, medio 17 cm latis, apice acuminatis, basi acroscopica angustatis, sessilibus, bipinnatifidis; pinnulis ca. 30-jugis, alternis vel inferioribus suboppositis, contiguis, recto-patentibus, 9 cm longis, 10—12 mm latis (inferioribus acroscopicis 4—5 cm longis), linearilanceolatis, acuminatis, rectis vel superioribus saepe falcato-incurvatis, basi truncatis, non angustatis, sessilibusque; segmentis ultimis 30-35-jugis, approximatis, inferioribus oppositis, superioribus alternis, 5—6 mm longis, ca. 2 mm latis, ligulato-lanceolatis, obtusis, patentibus, basi confluentibus, margine integris, valde revolutisque; nervis ca. 10-jugis, patentibus, paulo supra basin furcatis, utrinque prominentibus, pagina supra praeter costas primum griseo-stellato-tomentosas demum denudatas glaberrima, infra cum rachillis costisque tomento crasso rufo-ferrugineo, pilis stellatis formato omnino oblecta, rachillis cum parte basali costae praeterea paleis rufis, lanceolatis, acuminatis, dense ciliatis, patentibus, adpresse dense vestitis, aetate subnudis; costa pinnularum infra elevata, supra late sulcata; textura folii coriacea, facie superne olivaceo-viridi, inferne glaucescente viridescenti, inter pilos perfecte occulta; soris parvis, medialibus, sporangiis 3—4 inter tomentos rufo-ferrugineas perfecte absconditis.

Yunnan austr.-orient., Ping-pien Hsien, Ta-wei Shan, summit, alt. 2800 m, in thickets,