

据《福建植物志》及《浙江植物志》记载,该种近叶轴顶部常有芽胞,但经检查有关标本(包括采自福建浦城的模式标本),并未发现有明显可靠的芽胞。

139. 大关耳蕨 (植物分类学报)

Polystichum daguanense Ching ex L. L. Xiang in Acta Phytotax. Sinica **32** (3): 263, pl. 3. 1994; Johns, Ind. Fil. Suppl. **7**: 80. 1997 [err. L. L. Xiang ex Ching].

139a. 大关耳蕨 (原变种)

var. *daguanense*

植株小型,高18—30厘米。根状茎短而直立。叶簇生;叶柄浅绿禾秆色,上面有沟槽,长2.5—7厘米,基部直径约1毫米,自基部向上至叶轴疏被卵形、边缘有不规则细齿、大多伏贴的暗棕色膜质小鳞片;叶片狭长椭圆披针形,长10—27厘米,中部宽1.5—2.5厘米,顶端渐尖,基部平截,或略呈阔楔形,有时略凹入呈浅心形,一回羽状;羽片20—40对,互生或近对生,略斜展和或平展,有狭间距,无柄,长矩圆形或近矩圆形,中部的长7—15毫米,中部宽3—4毫米,基部的长5—10毫米,宽2—4毫米,顶端钝圆,基部不对称,上侧基部的耳状凸起通常呈三角形,上部近平直,下侧基部狭楔形,上部圆弧形,除狭楔形的下侧基部,边缘均有整齐的粗锯齿,齿端有短尖头;叶脉两面明显,羽状,中脉上侧的侧脉大多二叉状,下侧的侧脉大多单一,小脉大多伸入锯齿,几达边缘。叶纸质;叶轴浅绿禾秆色,上面有沟槽;羽片上面光滑,下面疏被卵形或披针形、浅棕色、伏贴的膜质小鳞片。孢子囊群小,生于较短的小脉顶端,接近羽片边缘,在中脉上侧1—5个,下侧1—2个,生于顶部,上侧的耳状凸起及下侧的顶部锯齿以下均不育;圆盾形的囊群盖浅棕色,几全缘,宿存。孢子赤道面观半圆形,周壁形成脑纹状褶皱。

产云南东北部(大关、永善)。生海拔1500—1800米的石灰岩山谷阴湿溪边岩隙。模式标本采自大关(出水,纸厂沟)。

139b. 花山耳蕨 (变种) (云南植物研究)

var. *huashanicolum* W. M. Chu et Z. R. He, var. nov. in Addenda.

与原变种的区别在于羽片上侧具有常不整齐的撕裂状锯齿。

产云南东北部(镇雄,花山)。生海拔1950米的灌木林下石灰岩岩隙。

140. 文笔峰耳蕨 (新拟)

Polystichum pseudoacutidens Ching ex W. M. Chu et Z. R. He, sp. nov. in Addenda.

植株高40—50厘米。根状茎斜升或直立,连同叶柄基部直径1.5—2厘米。叶多数(10个以上)簇生;叶柄禾秆色,长12—18厘米,基部直径1.5—2毫米;疏被披针形或阔披针形、长达5毫米、全缘的开展鳞片及阔卵形、边缘有齿的贴生小鳞片,鳞片均为棕色、膜质;叶片披针形,顶端渐尖或长渐尖,基部近截形,不缩狭或略缩狭,长20—32厘米,宽3.5—4.5厘米,一回羽状;羽片20—30对,互生或近对生,有短柄,平展或略斜向上,近直角三角形,长达2.5厘米,中部宽达6毫米,顶端短渐尖,锐尖头,两侧明显不对称,基部下侧的耳状凸起三角形,锐尖头,两侧有疏浅锯齿,下侧狭楔形,近通直或略向上弯弓,上半部有疏锯齿,上侧耳状凸起以上通常通直或近通直,

alt. 270 m, in fissures of rocks on limestone hills, W. M. Chu (朱维明) et Z. R. He (和兆荣) 27190, 1993-08-06.

Polystichum daguanense Ching ex L. L. Xiang var. **huashanicolum** W. M. Chu et Z. R. He, var. nov.

A typo differt margine anteriore pinnae serris saepe irregulariter laciniatis.

N. E. Yunnan (云南东北部): Zhengxiong (镇雄), Huashan (花山), alt. 1950 m, in fissures of limestone under shrub forest, W. M. Chu (朱维明) & G. F. Zhang (张光飞) 24241 (typus, PYU), 1991-08-31.

Polystichum deltodon (Bak.) Diels var. **cultripinnum** W. M. Chu et Z. R. He, var. nov.

A typo differt pinnis plerumque cultratis, margine non nisi supra medium acute vel cuspidate serrulato, infra medium integro vel undulato vel incisoserrulato, latere anteriore pinnae raro margine prope basim auriculatam denticula cuspidata.

Sichuan (四川): Emei (峨眉), alt. 1000 m, by stream, T. H. Tu (杜大华) 224, 1931-06-24; Emei Shan (峨眉山), Jiushijiudaoguai (九十九道拐), alt. 1250 m, in fissures of moist rocks, in mixed forest, W. M. Chu (朱维明) et M. Y. Liu (刘茂云) 7301, 1977-09-04; ib. alt. 1450 m, in fissures of limestone, W. M. Chu et Z. R. He (和兆荣) 28322B, 1993-08-23; ib. Longqiaogou (龙桥沟), alt. 1600 m, on cliff of shale under evergreen broad-leaved forest, W. M. Chu et Z. R. He 28312, 1993-08-23; Daxiangling (大相岭), alt. 1300 m, by brook under bushes, H. S. Kung (孔宪需) 4006, 4013, 1964-08-07; Gulin (古蔺), Maomaogou (毛毛沟), alt. 1100 m, under broad-leaved forest in ravine, H. S. Kung et al. 6934, 1985-09-06; ib. Jiancaogou (笕槽沟), alt. 1000 m, on cliffs under broad-leaved forest in ravine, H. S. Kung et al. 6990, 1985-09-09; Hejiang (合江), Dazhong Shan (大钟山), alt. 900 m, by road, Biol. Depart. Southwest Teach. Col. (西南师范学院生物系) 80145, 1980-07-22. **Chongqing** (重庆): Jinyun Shan (缙云山), F. J. Dai (戴番缙) et S. Chou (周铨) 534, 1956-06; Nantong (南桐), Yanghaping (羊哈坪), alt. 1000 m, by ditches, B. Y. Zhang (张百誉) et al. 81-1163, 1981-07-26; Nanchuan (南川), Banhe (半河) alt. 1250 m, under forest by brook, Z. Y. Liu (刘正宇) 2590, 1982-02-07. **Guizhou** (贵州): Chishui (赤水), Jinshagou (金沙沟), alt. 500-600 m, in fissures under forest, P. S. Wang (王培善) 76839, 1984-09-10 et 77830, 1984-10-22. **Yunnan** (云南): Maguan (马关), Bazhai (八寨), alt. 1750 m, in fissures of limestone under evergreen broad-leaved forest, W. M. Chu 8332 (typus, PYU), 1978-01-24. Pinbian (屏边), Dawei Shan (大围山), alt. 1500 m, in fissures of rocks in shady and moist place under evergreen broad-leaved forest, Y. Jiao (焦瑜) 96-56, 1996-10-06; Gongshan (贡山), Qiunatong (秋那桶 = Chi-na-tung 千那