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贡嘎山蕨类植物新分类群*

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NEW TAXA OF FERNS FROM MT. GONGGA (MINYA GONKAR), SICHUAN, CHINA

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关键词 蕨类植物, 新分类群, 贡嘎山, 四川

Key words Ferns, New taxa, Mt. Gongga, Sichuan

1. 九龙卷柏 新种 图 1: 1—5

Lycopodioides jiulongensis H. S. Kung, L. B. Zhang et X. S. Guo, sp. nov. fig. 1:1—5

Species affinis *L. davidii* (Franch.) H. S. Kung et L. B. Zhang, sed foliis margine ciliatis, foliis lateralibus apice acuminatis vel caudatis differt.

Caules repentes, and 8 cm logi, sympodiales, rhizophoris tenuibus. Folia ubique dimorpha, 4-sticha; foliis latetralibus ovatis, 1.6—2.2 mm longis, ca. 0.8 mm latis, semifaciebus superis basi rotundatis, semifaciebus inferis basi cuneatis, apice acuminatis vel caudatis, margine ciliatis; foliis intermedis anguste ovatis, 1.0—1.2 mm longis, ca. 0.5 mm latis, basi fere rotundatis, apice acuminatis vel leviter caudatis, margine ciliatis; foliis axillaribus anguste ovatis, ca. 1.2 mm longis, ca. 0.5 mm latis, basi fere rotundatis, apice acuminatis, margine ciliatis. Strobili in apicibus ramulorum singule vel binatim dispositi, 1—2 cm longi; sporophyllis homomorphis, late ovatis ca. 2 mm longis, ca. 1 mm latis, basi fere rotundatis, apice abrupte acutis, vel fere mucronatis.

Sichuan (四川): Jiulong (九龙), alt. 2900—3100 m, L. B. Zhang et X. S. Guo (张丽兵、郭晓思) 2537 (Typus. CDBI 成都生物研究所), 4. XI. 1991.

本种近蔓生卷柏 *Lycopodioides davidii* (Franch.) H. S. Kung et L. B. Zhang, 但叶缘及孢子叶缘为睫毛状齿, 侧叶先端渐尖或成尾状而不同。

2. 高山卷柏 新组合

Lycopodioides jugorum (Hand. -Mazz.) H. S. Kung, comb. nov. — *Selaginella jugorum* Hand.

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♂ 蔓生卷柏 *Lycopodioides davidii* (Franch.) H. S. Kung et L. B. Zhang, comb. nov. — *Selaginella davidii* Franch. Pl. David I 344. 1889

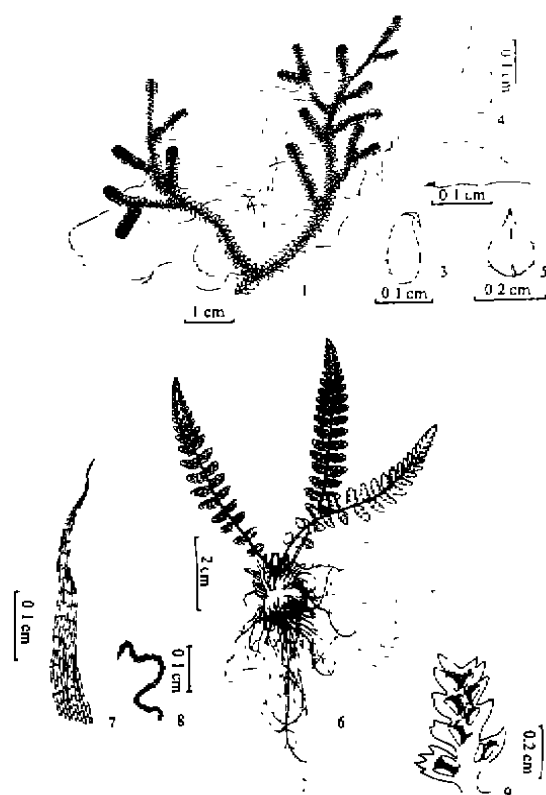


图 1 1—5. 九龙卷柏 *Lycopodioides julongensis* H. S. Kung, L. B. Zhang et X. S. Guo 1. 茎与叶; 2. 侧叶; 3. 中叶; 4. 腋叶; 5. 孢子叶。6—9. 康定铁角蕨 *Asplenium kangdingense* Ching et H. S. Kung 6. 植株; 7. 叶柄鳞片; 8. 叶轴鳞片; 9. 小羽片

(陈箴绘)

latae, pinnatifidae. Lobi 2—4-jugati, suboppositi, oblongi vel cuneati, apice 2—3 acuto-dentibus et 1 femina instructi Venae pinnarum penniformae. 1-venula pro lobo, inconspicuae. Sori breve lineari vel oblongi, secus venulas locati; indusiis late linearis vel curvis, membranaceis, integris, cineraceis.

Sichuan (四川): Kangding (康定), Guza (姑咱), alt. 1900 m, in shrubs, H. S. Kung (孔宪需) 6116 (Typus, CDBI 成都生物研究所; Isotypi, EP, PYU). 26. VIII. 1981; *ibid.*, alt. 2100 m, H. S. Kung (孔宪需) 6108; Luding (泸定), alt. 1500 m, in the fissure of rocks, H. S. Kung (孔宪需) 6291.

本种近 *A. yunnanense* Franch., 但体型小, 叶片长 2.5—4.5 cm, 宽 0.4—0.8 cm; 叶柄和叶轴被黑以纤维状鳞片。

4. 康定岩蕨 新种 图 2

Woodsia kangdingensis H. S. Kung, L. B. Zhang et X. S. Guo, sp. nov. fig. 2. — *Physematium yaraense* Ching in sched. — *Woodsia manchuriensis* auct non Hook. Q. Xia in W. T. Wang, Vasc. Pl. Hengduan Mts. 1: 112. 1993.

Species *W. manchuriensi* Hook. et *W. elongatae* Hook. similis, ab illud differt rhachidi breve

Mazz. Symb Sin 6: 8. Taf. I. 1929.

Sichuan (四川): Kangding (康定), H. S. Kung (孔宪需) 6067, 6071. L. B. Zhang et X. S. Guo (张丽兵、郭晓思) 2294, 2383; Jiulong (九龙), L. B. Zhang et X. S. Guo (张丽兵、郭晓思) 2453, 2530, 2546.

分布: 四川, 云南。

3. 康定铁角蕨 新种 图 1: 6—9

Asplenium kangdingense Ching et H. S. Kung, sp. nov. fig. 1: 6—9

Species affinis *A. yunnanensi* Franch., differt habitu minore, lamina 2.5—4.5 cm longa, 0.4—0.8 cm lata; stipite et rhachidi paleis nigris fibrillosis obtectis.

Tota planta 3.5—6.5 cm alta. Rhizoma erectum, apice paleaceum; paleis lanceolatis, apice caudatis, atrobrunneis; frondibus caespitosis. Stipes 1.0—2.0 cm longus, brunneus; paleis fibrillosis, nigris. Lamina elliptico-lanceolata, 2.5—4.5 cm longa, 0.4—0.8 cm lata, apice acuminata, basi gradatim angusta, bipinnatifida. Rhachis leviter brunnea vel straminea, apice gemmata; paleia fibrillosis, nigris Pinnae 12—18-jugatae, alternae, patentes, sessiles, anguste ovatae vel oblongae, basi late cuneatae, apice obtusae vel rotundatae, mediae 0.3—0.5 cm longae, 0.2—0.3 cm

pubescentis, indusiis apice erosis non integris; a hoc differt habitu minore, stipite paleis anguste ovatis vel lanceolatis non late ovatis instructis.

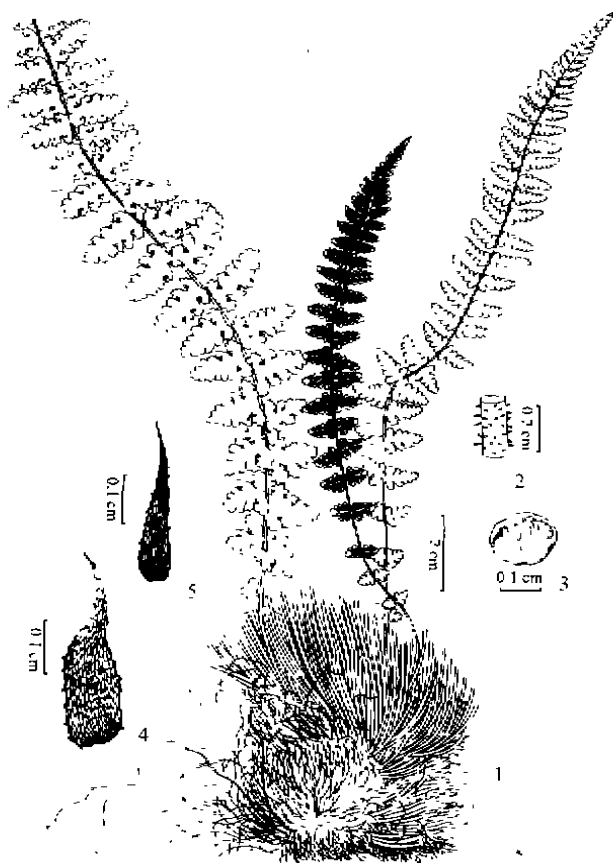


图2 康定岩蕨 *Woodsia kangdingensis* H. S. Kung, L. B.

Zhang et X. S. Guo

1. 植株; 2. 叶轴一段; 3. 囊群盖; 4、5. 叶柄鳞片

(陈尧绘)

Tota planta 16—23 cm alta. Rhizoma erectum, apice paleis brunneis ovato-lanceolatis integris instructum; frondibus caespitosus. Stipes 2—4 cm longus, stramineus, glabrus, laxe paleaceus, paleis brunneis lanceolatis vel anguste ovatis integris. Lamina anguste lanceolata, 12—20 cm longa, 1.8—3.0 cm lata, apice acuminata, infra medio gradatim angusta, bipinnatifida. Rhachis breve pubescentia. Pinnae 14—19-jugatae, suboppositae, triangulari-ovatae, 0.8—1.8 cm longae, 0.4—0.8 cm basi latae, apice obtusae, basi subaequilaterales, pinnatifidae. Lobi 4—7-jugati, herbacei, margine obtuse dentati. Venae inconspicuae. Sori rotundati, indusis membranaceis, apice erosis.

Sichuan (四川): Kangding (康定), Liuba (六巴), alt. 3400 m, on the rock wall under *Picea* forest, H. S. Kung (孔宪需) 6108 (Typus, CDBI 成都生物研究所; Isotypi, PE, PYU), 18 VIII. 1981; *ibid.*, alt. 3800 m, in fissure of rocks, L. B. Zhang et X. S. Guo (张丽兵、郭晓思) 2189, 2382.

本种与满洲岩蕨 *W. manchuriensis* Hook. 和长叶岩蕨 *W. elongata* Hook. 接近, 与前者区别是叶轴被短毛, 囊群盖顶端啮蚀状而非全缘; 与后者区别是体型较小, 叶柄鳞片狭卵形或披针形而非阔卵形。

5. 无粉淡蓝粉背蕨 新变种

Aleuritopteris caesia (Christ) Ching var. *efarinosa* H. S. Kung, L. B. Zhang et X. S. Guo, var. nov.

Varietas a forma normali differt lamina infra non albi-farinosa.

Sichuan (四川): Kangding (康定), Shade (沙德), alt. 3200 m, in shrubs, L. B. Zhang et X. S. Guo (张丽兵、郭晓思) 2138 (Typus, CDBI 成都生物研究所; Isotypi, PYU, WUG), 19. X. 1991; *ibid.*, L. B. Zhang et X. S. Guo (张丽兵、郭晓思) 2136.

本变种与原变种的区别是叶背无白粉。