

川西竹亚科若干新分类群

易同培

(四川省林业学校, 都江堰, 611830)

关键词 竹亚科; 四川西部; 新分类群

宝兴巴山木竹 箭竹(四川宝兴)新种(图 1)

Bashania baoxingensis Yi, sp. nov. TYPE sichuan(四川), baoxing(宝兴), quite near Ming Li (明礼), alt. 1460m, in shrubs on steep slope, 1998-07-05, T. P. Yi(易同培) 98552(type, SIFS).

Haec species similis *B. qingchengchanensi* Keng f. et Yi, a qua differt internodiis rhizomatisbus cavis; internodiis culmi infra medium complanatis ad latus ramigenum vel gemmatum, primo superne luteolo strigosis et aliquantum muricatis, infra nodos saepe haud farinosis, cavis; nodis culmi conspexue protuberantibus; ramis 3 in quoque nodo culmi, ramulis secundariis in nodis ramorum; ligulis vaginarum 0.5~2 mm altis; ligulis foliorum 0.5~2 mm altis; petiolis longioribus, 2~5(7) mm longis; laminis chloroticis, nervis secundariis 7~9-jugis, nervulis transversis in quadrata consociatis. Species *B. fargesii* (E. G. Camus) Keng f. et Yi similis, sed culmis parvioribus, usque 2.5 m altis et 1 cm crassis, internodiis haud farinosis vel nonnunquam infra nodos leviter farinosis, supra internodia primo deorsum flavo-curvato-setulosis; haud grammatis; auriculis setis oralibusque vaginarum nullis; laminis reflexis, raro erectis; foliis 2(3) in quoque ramulo; ligulis primomargine fimbriatis; petiolis et laminis glabris differt.

Rhizomata amphipodialia, internodiis 0.8~4 cm longis, 3.5~7 mm diam., annuliformi-farinosis infra nodos, cavis minimis. Culmi 2~2.5 m alti, 6~10 mm diam., apice erecti, internodiis (8) 20~30(38) cm longis, cylindricis, complanatis infra medium ad latus ramigenum vel gemmatum, nonnunquam infra nodos pallido-farinosis, primo supra internodia deorsum flavo-curvato-setulosis et scabridis, haud grammatis, parietibus 2.5~3.5 mm crassis, medullis obtritis; nodivaginarum prominentes deorsum fulvo-hirsuti; nodi culmorum prominentes vel valde prominentes in nodis ramigenis; intranodiis 2~6 mm altis. Gemma 1, ovato-oblonga, margine brunneo-ciliata. Rami (1) 3(4) in quoque nodo, erecto-patentes, 30~50 cm longi, 1.2~3.5 mm crassi, ramulis secundariis in nodis ramorum. Vaginae culmorum persistentes, longitudine 3/5 totius internodii, oblongo triangulatae,

收稿日期: 1999-01-06

本文全部图均由杨林绘制

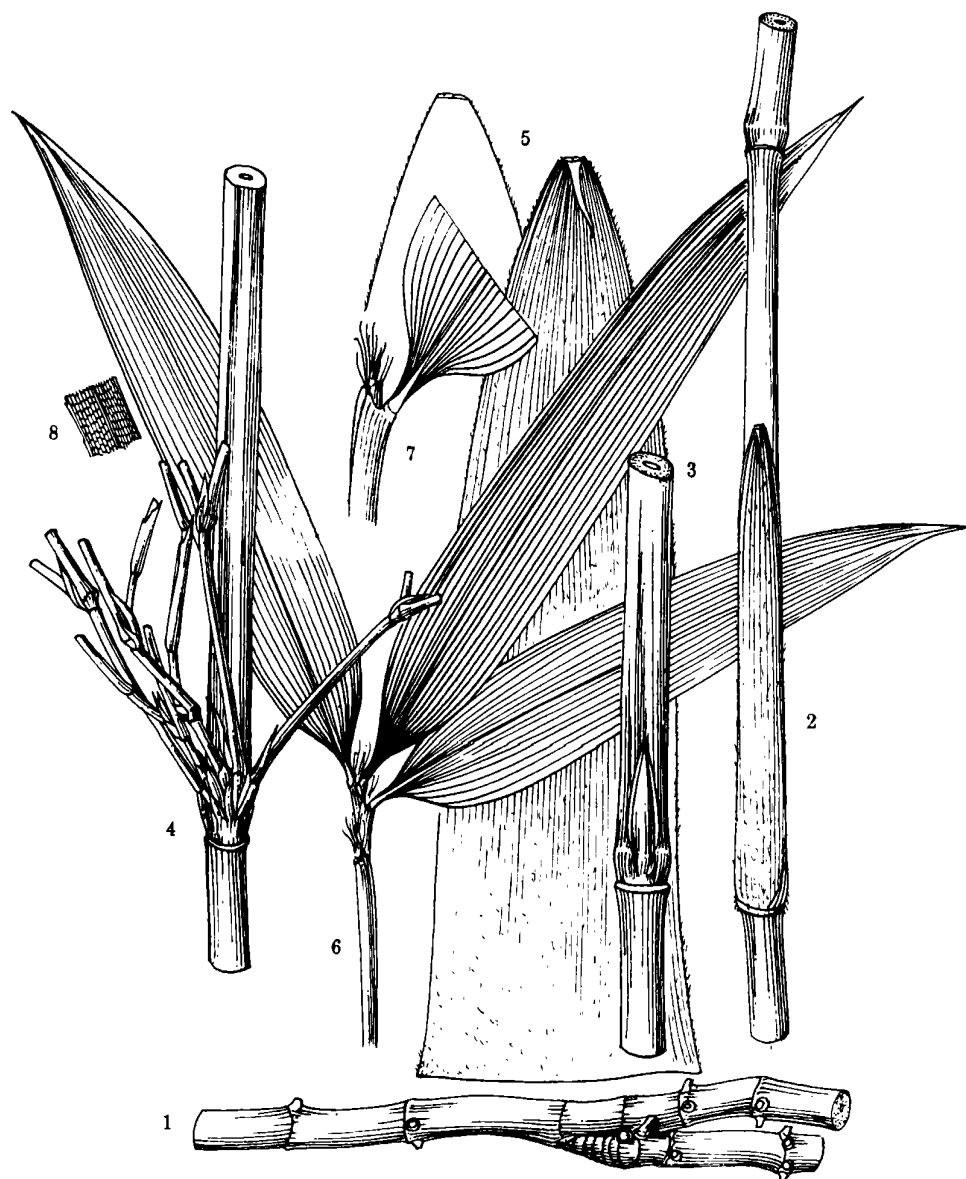


图 1 宝兴巴山木竹

1. 地下茎; 2. 秆的一段, 示宿存秆箨; 3. 秆的一段, 示秆芽; 4. 秆的一段, 示分枝;
5. 秆箨; 6. 具叶小枝; 7. 叶鞘顶端及叶片基部; 8. 叶片的一部分 (放大)

Fig. 1 *Bashania baoxingensis* Yi 1. Rhizome; 2. A part of culm showing persistent culm-sheath; 3. A section of culm showing its bud; 4. A section of culm showing its branching; 5. Culm-sheath; 6. Branchlet with leaves; 7. Upper part of leaf-sheath and basal part of blade; 8. A part of blade enlarged

crasso - coriaceae vel cartilagineae, luteolae, dorsobrunneo - tuberculato - hirsutae, grammatae, setuloso - ciliatae; auriculae et setae orales nullae; ligulae truncatae vel curvatae, 0.5~2 mm altae, nonnunquam fimbriis 1.5~6 mm longis; laminae reflexae raro erectae, longo - triangulatae, lineari - lanceolatae vel lanceolatae, 0.2~2.2(5.5) cm longae, 1~2(5) mm latae, margine involutae. Folia 2(3) in quoque ramulo; vagiae 4.2~10 cm longae, pubescentes, haud carinate et ciliatae; ariculae minimae, chlorotico - purpureae, ciliis 3~5, 2~12 mm longis; ligulae curvatae, 0.5~2 mm altae, ciliis 3~8 mm longis; petioli 2~5(7) mm longi, glabri; laminae lineari - lanceolatae vel lanceolatae, papyraceae, 9~15 cm longae, 1.8~3.8 cm latae, basi cuneatae vel anguste cuneatae, subtus chloroticae, utrinque glabrae, nervis secundariis 7~9 - jugis, nervillis transversis in quadrata consociatis, margine serrulatae.

地下茎复轴型,竹鞭节间长 0.8~4 cm,直径 3.5~7 mm,圆柱形,淡黄色,节下有时被微白粉一圈,中空度很小,每节生根或瘤状突起(0)1~4枚;鞭芽尖卵形,贴生。秆高 2~2.5 m,直径 6~10 mm,梢端直立;全秆具 11~15 节,节间长(8)20~30(38) cm,圆筒形,但在具芽或分枝一侧中部以下扁平,绿色,无白粉或有时在节下稍有白粉一圈,初时有时在上部被灰黄色下向小刺毛并稍粗糙,无纵细线棱纹,秆壁厚 2.5~3.5 mm,髓呈锯屑状;箨环隆起,被下向黄褐色刺毛;秆环隆起或在分枝节上显著隆起;节内高 2~6 mm,在分枝节上向下显著变细。秆芽 1 枚,卵状长圆形,边缘被褐色纤毛。秆之第 3~4 节开始分枝;秆每节具分枝(1)3(4)枚,枝条斜展,全长 30~50 cm,具 6~8 节,节间长 1.5~8 cm,直径 1.2~3.5 mm,基部节间稍呈三棱形,中空度较小,每节上均可发生次级枝。箨鞘宿存,短于节间,约为节间长度的 3/5,长 8~22 cm,宽 2.4~4.2 cm,长圆状三角形,厚革质至软骨质,淡黄色,背面被棕色瘤基刺毛,纵脉纹密而明显,小横脉不发育,具棕色刺毛状缘毛;箨耳及鞘口 缝毛缺失;箨舌截平形或圆弧形,高 0.5~2 mm,在上部秆箨上者有时边缘具长 1.5~6 mm 之 缝毛;箨片长三角形,线状披针形或披针形,外翻或稀直立,长 0.2~2.2(5.5) cm,宽 1~2(5) mm,边缘常内卷。小枝具叶 2(3)枚;叶鞘长 4.2~10 cm,被微毛,上部无纵脊或不明显,纵脉纹不明显,无缘毛;叶耳微小,淡绿紫色,幼时具 3~5 枚长 2~12 mm 之灰色 缝毛;叶舌圆弧形,淡绿紫色,高 0.5~2 mm,边缘初时密生长 3~8 mm 之灰色 缝毛;叶柄长 2~5(7) mm,无毛;叶片线状披针形或披针形,纸质,长 9~15 cm,宽 1.8~3.8 cm,先端渐尖,基部楔形或狭楔形,上面绿色,下面淡绿色,两面均无毛,次脉 7~9 对,小横脉组成方格状,边缘具小锯齿而粗糙。花、果未见。笋期 4 月下旬至 5 月上旬。

本种近似饱竹子 *B. qingchengshanensis* Keng f. et Yi,但竹鞭中空;秆之节间下半部扁平,初时上部被灰黄色小刺毛并稍粗糙,节下常无白粉一圈,中空;秆环显著隆起;秆每节分枝常为 3 枚,枝条各节上均可发生次级枝;箨舌高 0.5~2 mm;叶柄较长,长 2~5(7) mm;叶片下面淡绿色,次脉 7~9 对,小横脉组成方格状。也近似巴山木竹 *B. fargesii* (E. G. Camus) Keng f. et Yi,其不同在于本种秆矮小,高达 2.5 m,直径达 1 cm,节间幼时无白粉或有时在节下稍有白粉一圈,有时上部被灰黄色下向小刺毛,无纵细线棱纹;箨耳及鞘口两肩 缝毛缺失;箨片外翻,稀直立;小枝具叶 2(3)枚;叶舌边缘初时具 缝毛;叶柄及叶片均无毛,易于区别。

天全方竹 刺竹(四川天全)(图 2)

Chimonobambusa tianquanensis Yi, sp. nov. TYPE, Sichuan(四川), Tianquan(天全), Zishi

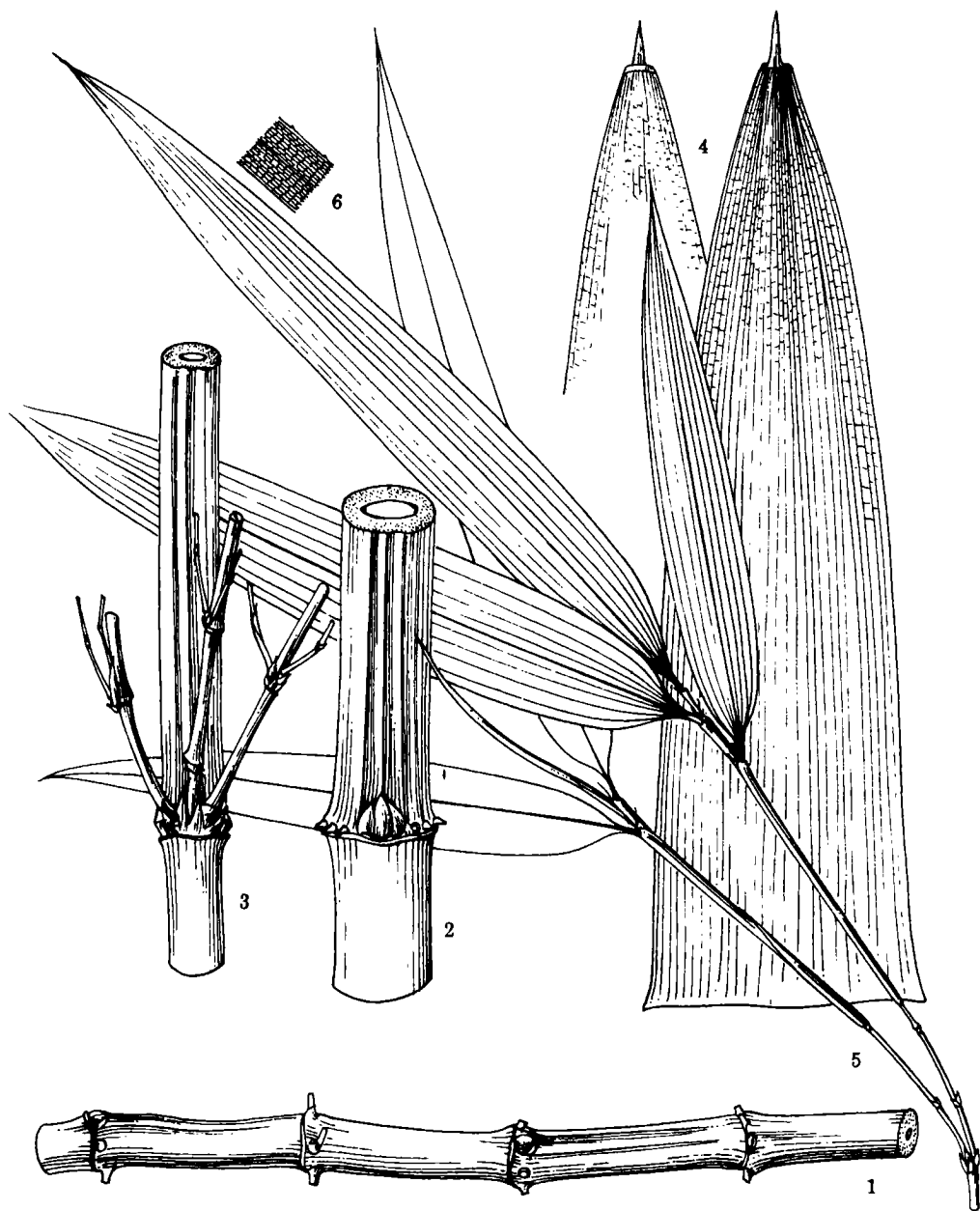


图 2 天全方竹

1.地下茎; 2.秆的一节,示秆芽; 3.秆的一节,示分枝; 4.秆箨; 5.具叶小枝; 6.叶片的一部分(放大)

Fig. 2 1. *Chimonobambusa tianquanensis* Yi 1. Rhizome; 2. A node of culm showing its bud; 3. A node of culm showing its branching; 4. Culm sheath; 5. Branchlet with leaves; 6. A part of blade (enlarged).

(紫石), Dayuxi(大鱼溪), alt. 1450m, under broad-leaved forest of hill side, 1998-08-02, T. P. Yi(易同培) 98657(type, SIFS).

Species haec a *Ch. quadrangulata* (Fenzi) Makino differt internodiis culmorum tantum juventute superne tuberculato-setulosis; laminis vaginarum eminentibus, 2.5~9mm longis; ligulis foliorum glabris; laminis subtus glaucis, nervis secundariis 4~5-jugis.

Rhizomata amphipodialia, internodiis (1.2) 2.5~4.5 cm longis, 4.5~6.5 mm crassis. Culmi (3) 5~7 m alti, (1.2) 1.5~2(2.5) cm diam., internodiis (5) 14~15(18) cm longis, cylindricis, sed ad latus ramigenum 2-porcatis et 3-sulcatis, juventute superne cano-tuberculato-setulosis, parietibus rigidis, 2.5~5 mm crassis, medullis membranaceis; nodi vaginarum angustiores, primo luteolo-setulosis; nodi culmorum obscuri vel prominentes ad nodos ramosum; indranodiis c. 2 mm altis, radicibus aeris spiniformibus (2) 4~15 in quoque nodo. Gemmae et Rami 2 in quoque nodo. Turiones luteolo-virides; vaginae culmorum caducae, longo-triangularae, tenuiter coriaceae, eis internodium superantibus, 14.5~20 cm longae, 3.5~6 cm latae, primo parsissimo-luteolo-tuberculato-setulosae, grammatae, superne transverso-nervulosae; auriculae et setae orales nullae; ligulae truncatae vel subcurvatae, c. 0.8 mm altae; laminae erectae, triangularae vel lineari-triangularae, 2.5~9 mm longae, 1~1.5 latae. Folia 2~3(4) in quoque ramulo; vaginae 3~4.5 cm longae, margine superne unilaterali ciliatae; auriculae nullae, setae orales 3~5 in quoque latere, 1~2 mm longae; ligulae subcurvatae, c. 0.5 mm altae; petioli 1.5~5 mm longi; laminae lineari-lanceolatae, (7.5) 10~15 cm longae, (1) 1.3~1.8 cm latae, antice longe acuminatae, basi cuneatae vel late cuneatae, subtus glaucae, glabrae, nervis secundariis 4~5-jugis, nervillis transversis in rectangula consociatis, margine unilaterali serrulatae.

竹鞭节间长 (1.2) 2.5~4.5 cm, 直径 4.5~6.5 mm, 圆筒形, 但在具芽一侧常有纵沟槽, 中空度小, 每节生根或瘤状突起 3~5 枚; 鞭芽近圆形, 贴生, 或短圆锥形而不贴生, 边缘生有纤毛。秆高 (3) 5~7 m, 直径 (1.2) 1.5~2(2.5) cm, 梢头直立; 全秆具 35~40(45) 节, 节间圆筒形, 但分枝一侧具 2 纵脊和 3 纵沟槽, 长 (5) 14~15(18) cm, 绿色或淡绿色, 无白粉, 幼时节间上部被灰白色瘤基小刺毛, 此毛脱落后留有瘤基而显粗糙, 秆壁较坚硬, 厚 2.5~5 mm, 髓呈笛膜状; 箨环隆起, 狭窄, 初时被灰黄色小刺毛; 秆环不明显或在分枝节上隆起, 常为紫色; 节内高约 2 mm, 在秆下部分枝的数节上和不分枝的节上均具一圈刺瘤状气生根, 其每节上气生根刺的数目为 (2) 4~15 枚, 刺长 1~1.5 mm。秆芽在秆之每节上为 3 枚, 扁卵形, 各具多枚鳞片, 被小硬毛。秆之第 12 节左右开始分枝, 枝条在秆每节上 3 枚, 但后期因次生枝发生其数目可为多数, 斜展, 长 (25) 40~65 cm, 直径 (1.5) 3~4 mm, 具 12~15 节, 节间长 0.5~7 cm, 无毛, 几实心, 枝环显著隆起。笋淡黄绿色; 箨鞘早落, 长于节间长度, 长三角形, 薄革质, 解箨时为淡灰黄色, 长 14.5~20 cm, 宽 3.5~6 cm, 先端短三角形, 顶端宽 2.5~6 mm, 无斑点, 初时被极稀疏的淡黄色瘤基小刺毛, 纵脉纹显著, 上部小横脉清晰, 边缘无纤毛或初时有时具稀疏纤毛; 箨耳及鞘口两肩缘毛缺失; 箨舌截平形或近圆弧形, 淡黄褐色, 高约 0.8 mm; 箨片直立, 三角形或线状三角形, 较箨鞘顶端为窄, 长 2.5~9 mm, 宽 1~1.5 mm, 两面纵脉纹显著。小枝具叶 2~3(4) 枚; 叶鞘长 3~4.5 cm, 上部纵脊及纵脉纹明显, 边缘上部一侧有小纤毛; 叶耳缺失, 鞘口两肩初

时常具 3~5 枚长 1~2 mm 径直黄褐色 缝毛;叶舌近圆弧形,紫色,高约 0.5 mm,边缘有不整齐细裂刻;叶柄长 1.5~5 mm,淡绿色;叶片线状披针形,纸质,长 (7.5) 10~15 cm,宽 (1) 1.3~1.8 cm,先端长渐尖,基部楔形或阔楔形,上面绿色,下面灰白色,两面均无毛,次脉 4~5 对,小横脉组成长方形,边缘一侧具小锯齿,另一侧近于平滑。花枝未见。笋期 8 月下旬至 9 月中旬。

本种近似方竹 *Ch. quadrangularis* (Renzi) Makino,不同在于秆之节间幼时仅上部被瘤基状小刺毛;箨片显著,长 2.5~9 mm;叶舌无毛;叶片下面灰白色,次脉 4~5 对。

笋供食用;秆材为造纸原料。

短鞭箭竹 新种 (图 3)

***Fargesia brevistipedis* Yi, sp. nov.** (Sect. *Fargesia*) TYPE Si-chuan(四川), Tianquan(天全), Qingshi(青石), Sanwan River(三弯河), alt. 1250 m, on shore of hill ditch, 1998-08-01, T. P. Yi(易同培) 98654 (type, SIFS).

Species affinis *F. pauciflorae* (Keng) Yi. sed culmis juventute tenuiter farinosis, haud grammatis; nodis primo setulosis; foliis (3) 5(6) in quoque ramulo; setis oralibus vaginarum 4~8 in quoque latere, 5~6 mm longis, erectis; laminis angustioribus, 5~8.5 mm latis differt.

Colla culmorum 3.5~5 cm longa, 1.2~1.4 cm diam., internodiis 2~3(5) mm longis. Culmi dense caespitosi, 4~5 m alti, 1.2~2 cm diam., internodiis basi 2~5 cm longis, in medio 28~35(40) cm longis, cylindricis, primo farinosis, glabris, haud grammatis, parietibus 1.5~2(3) mm crassis, medullis obtritis; nodi vaginarum prominentes, primo setulosi; nodi culmorum plani vel tumidi in nodo ramoso; intranodiis 2~6 mm altis. Gemma 1. longo-ovata, ciliata. Rami (5) 7~10(12) in quoque nodo, erecto-patentes, 25~55(70) cm longi, 1~2.5 mm crassi. Vaginae culmorum sero deciduae vel persistentes, cartilagineae, glabrae vel sparse adpresso-fulvo-tuberculato-setulosae, triangulato-oblongae, longitudine c. 2/3 totius internodii, 14~22 cm longae, 4.5~7 cm latae, antice brevi-triangulatae, apice 6~8 mm latae, dorso primo ad infimum fulvo-hirsutae, grammatae, dense ciliatae; auriculae et setae orales nullae; ligulae truncatae vel subcurvatae, 1~1.5 mm altae, haud ciliatae; laminae reflexae, lineares vel lineari-triangulatae, 1.4~16 cm longae, 2.5~5.5 mm latae, margine serrulatae vel subplanae. Folia (3) 5(6) in quoque ramulo; vaginae 2.5~4 cm longae, non ciliatae; auriculae nullae, setae orales 4~8 in quoque latere, erectae; ligulae truncatae, c. 0.5 mm altae; petioli 1~2 mm longi, primo pubescentes; laminae lineares vel lineari-lanceolatae, (5.5) 6.5~11.5 cm longae, 5~8.5 mm latae, antice longe acuminatae, basi cuneatae, subtus glaucae, basi primo cinereo-pubescentes nervis secundariis 3~4-jugis, nervillis transversis in rectangula consociatis, margine, serrulatae.

秆柄长 3.5~5 cm,直径 1.2~1.4 cm,具 17~22 节,节间长 2~3(5) mm,干后常微具纵棱;鳞片三角形,交互紧密排列成 2 行,革质,黄色,上部具纵脉纹,先端有小尖头,边缘无纤毛;秆密丛生,高 4~5 m,直径 1.2~2 cm,梢端外倾;全秆具 27~33 节,基部节间长 2~5 cm,中部节间长 28~35 cm,最长达 40 cm,圆筒形,分枝节间亦无沟槽,绿色,无毛,幼时被白粉,平滑,无

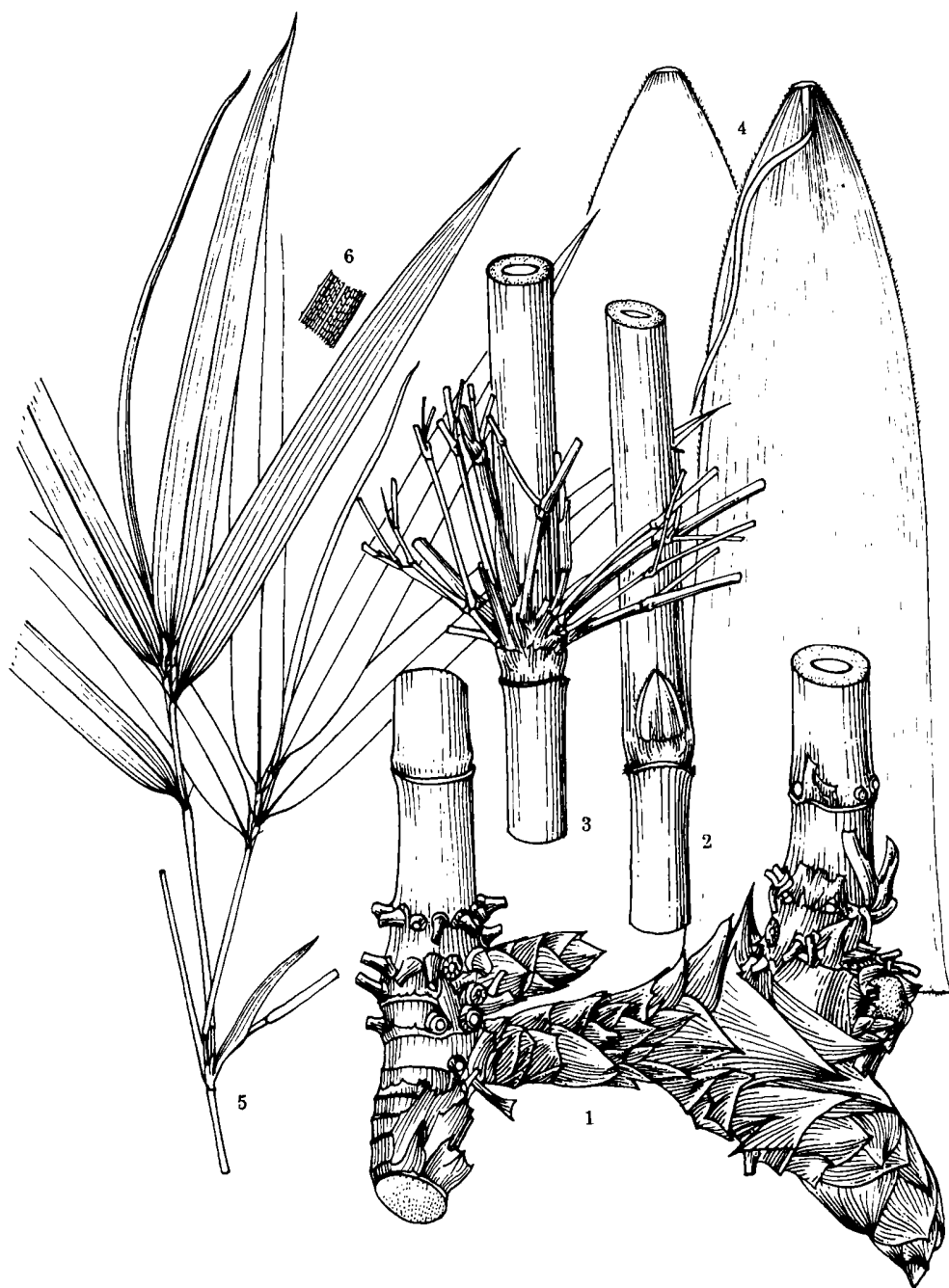


图 3 短鞭箭竹

1. 地下茎及秆的基部; 2. 秆的一节, 示秆芽; 3. 秆的一节, 示分枝; 4. 秆箨; 5. 具叶小枝; 6. 叶片的一部分 (放大)。

Fig. 3 *Fargesia brevistipoides* Yi 1. Rhizome with basal part of culm; 2. A node of culm showing its bud; 3. A node of culm showing its branching; 4. Culm-sheath; 5. Branchlet with leaves; 6. A part of blade (enlarged).

纵细线棱纹,秆壁厚 1.5~2(3) mm,髓呈锯屑状;箨环隆起,紫色或紫褐色,初时被黄褐短硬毛,后脱落;秆环平或在分枝节上稍肿起,节内高 2~6 mm,在分枝节上者向下稍变细。秆芽长卵形,贴生,初时有白粉,边缘被灰白色纤毛。秆的第 7~9 节开始分枝,枝条在秆的每节上(5) 7~10(12)枚,斜展,长 25~55(70) cm,直径 1~2.5 mm,具 6~13 节,节间长 0.4~11 cm,淡绿色或紫色,后期多少被黑垢,其节上可再分生次级枝。箨鞘迟落至宿存,紫色,软骨质,无毛,或被稀疏贴生黄褐色瘤基小刺毛,三角状长圆形,有白粉,约为节间长度的 2/3,长 14~22 cm,基部宽 4.5~7 cm,先端短三角形,顶端宽 6~8 mm,底部初时具黄褐色硬毛,背面纵脉纹显著,小横脉腋育,边缘密生暗黄色或黄褐色纤毛;箨耳及鞘口两肩繸毛缺失;箨舌截平形或微作圆弧形,紫褐色,高 1~1.5 mm,边缘无纤毛;箨片外翻,线形或秆下部者为线状三角形,淡绿色,无毛,长 1.4~16 cm,宽 2.5~5.5 mm,较箨鞘顶端为窄,边缘具微小锯齿或近于平滑。小枝具叶(3)5(6)枚;叶鞘长 2.5~4 cm,紫色或淡绿色,上部纵脊和纵脉纹明显,边缘无纤毛;叶耳缺失,鞘口两肩各具 4~8 枚长 5~6 mm 淡黄色繸毛;叶舌截平形,紫色,高约 0.5 mm;叶柄长 1~2 mm,淡绿色,初时被灰色短柔毛;叶片线形或线状披针形,纸质,长(5.5)6.5~11.5 cm,宽 5~8.5 mm,先端长渐尖,基部楔形,上面绿色,下面淡灰绿色,基部初时被灰色短柔毛,次脉 3~4 对,小横脉彼此组成长方形,边缘具小锯齿,略显粗糙。花果未见。笋期 5 月。

本种近似少花箭竹 *F. pauciflora* (Keng) Yi, 不同于后者在其幼秆被薄白粉,无纵细线棱纹;箨环初时被短硬毛;小枝具叶(3)5(6)枚;叶鞘口两肩各具 4~8 枚长 5~6 mm 直立繸毛;叶片较窄,宽 5~8.5 mm

大熊猫主食竹种

墨竹 (四川天全)新种(图 4)

Fargesia incrassata Yi, sp. nov. (Sect. Ampullares Yi) TYPE Si-chuan (四川), Tianquan(天全), Zishi(紫石), Dayuxi(大鱼溪), alt. 1450 m, on steep slope of gorge, 1998-08-02, T. P. Yi(易同培) 98656 (type, SIFS); about same locality, Dahe(大河), Wandanping(万担坪), alt. 1350~1600 m, 1998-07-21, T. T. Yi(易同培) 98599.

F. fractiflexa Yi affinis, sed a qua internodiis culmorum cavernosis; nodis culmorum chloroticis; vaginis culmorum internodio brevioribus, coriceis; vaginis foliorum erecto-fimbriatis, fimbriis 5~7 in numero differt.

Colla culmorum 9~15 cm longa, 7~11 mm diam., solida; squamis pubescentibus. Culmi caespitosi vel subsparsi, 3~4 m alti, 6~8(10) mm diam., apice erecti, internodiis (4)15~20 (25) cm longis, leviter fractiflexis, cylindricis, juventute leviter farinosis, grammatis, ligno 1.7~2 mm crasso, medullis obtritis; nodi vaginarum valde prominentes, crassis; nodi culmorum plani vel tumidi in nodo ramoso, chlorotici; intranodiis 1.5~2 mm altis. Gemmae multae, semiorbiculatae vel ovoideae. Rami 9~15 in quoque nodo, patentes vel horizontali-patentes, 18~35 cm longi, 1~1.5 mm crassi, subsolidi. Vaginae culmorum sero deciduae, coriaceae, triangulato-oblongae, longitudine c. 3/5. totius internodii, 7~15 cm longae, 1.9~3.7 cm latae, antice brevi-triangulatae, apice 2~4 mm latae, dorso sparse luteolo-tuberculato-

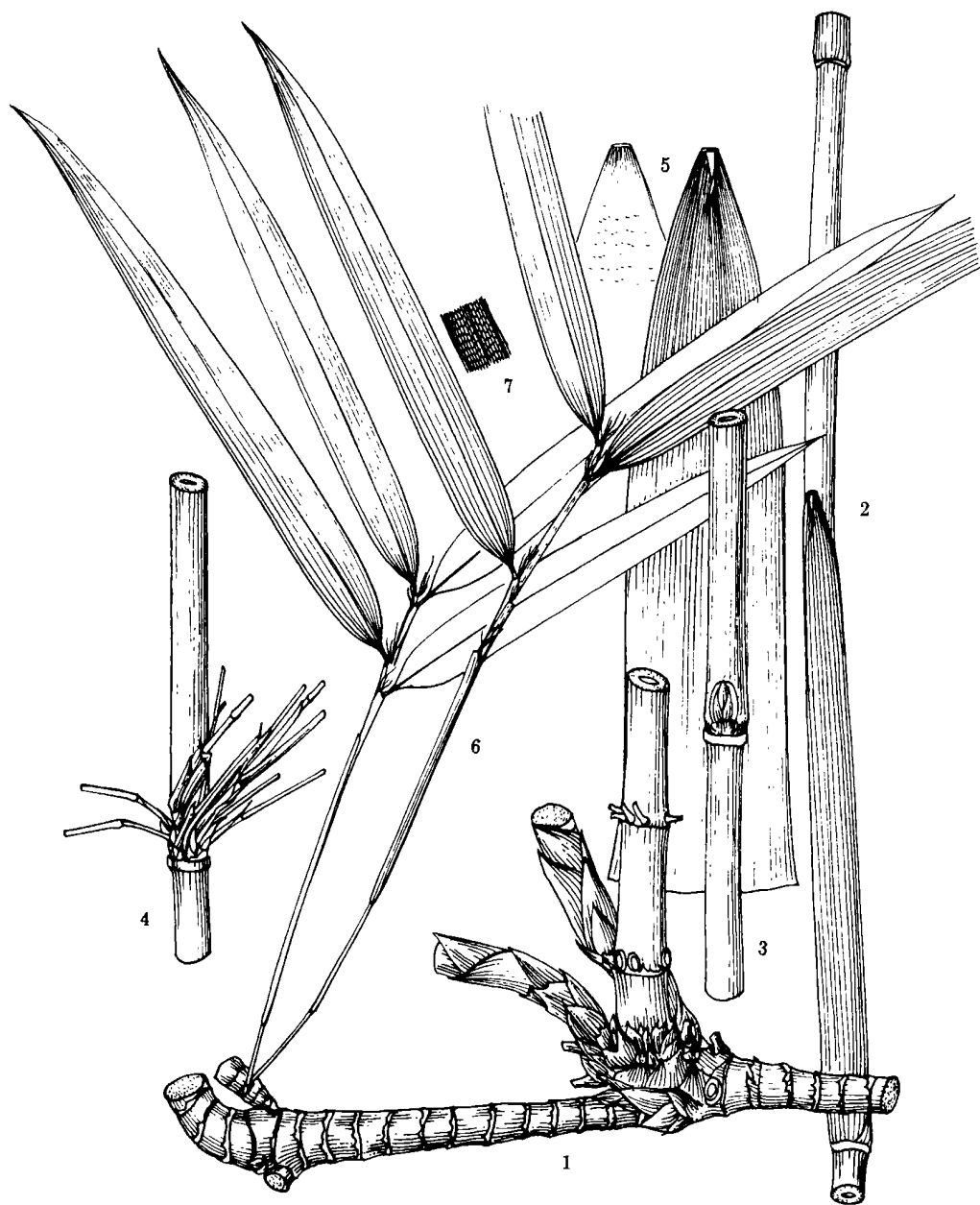


图 4 墨 竹

1.地下茎及秆的基部; 2 秆的一个节间, 示秆箨; 3.秆的一节, 节秆芽;
4.秆的一节, 示分枝; 5.秆箨; 6.具叶小枝; 7.叶片的一部分 (放大)

Fig. 4 *Fargesia incrassata* Yi l. Rhizome with basal part of culm; 2 A internode of culm showing culm-sheath; 3. A node of culm showing its bud; 4. A node of culm showing its branching; 5. Culm-sheath; 6. Branchlet with leaves; 7. A part of blade (enlarged).

setulosae, grammatae, haud ciliatae; auriculae et setae orales nullae; ligulae truncatae vel leviter curvatae, 0.5–1 mm altae; laminae reflexae, lineari–triangulatae vel lineares, 0.5–4.5 cm longae, 1–2 mm latae, margine serrulatae. Folia 3–5 in quoque ramulo; vaginae (2.5) 3.5–5 cm longae, saepe ciliatae; auriculae nullae, setae orales 5–7 in quoque latere, erectae; ligulae obliquo–truncatae vel subcurvatae, c. 0.5 mm altae; petioli 1.5–2.5 mm longi, primo pubescentes; laminae lineari–lanceolatae, 11–14 (16.5) cm longae, 1.2–1.5 cm latae, longe acuminatae, basi cuneatae, subtus glaucae, primo basi pubescentes, nervis secundariis 3–4–jugis, nervillis transversis in rectangula consocatis, margine serrulatae.

秆柄长 9–15 cm, 直径 7–11 mm, 具 19–28 节, 节间长 4–10 mm, 淡黄色, 光亮, 实心; 鳞片三角形, 交互作覆瓦状排列成 2 行, 革质, 被微毛, 边缘无纤毛。秆丛生或近散生, 高 3–4 m, 直径 6–8 (10) mm, 梢端直立; 全秆具 20–25 节, 节间长 (4) 15–20 (25) cm, 圆筒形, 无沟槽, 有时略作“之”字形曲折, 绿色, 无毛, 幼时微被白粉, 老时变为浅灰色, 纵细线棱纹明显, 秆壁厚 1.7–2 mm, 髓呈锯屑状; 箨环显著隆起, 宽而肥厚, 紫褐色或褐色, 无毛; 秆环平或在分枝节上者肿胀, 淡绿色; 节内高 1.5–2 mm, 常有白粉。秆芽数枚至多数枚, 组成半圆形、卵圆形或长卵形, 贴生, 边缘初时被灰白色纤毛。秆的第 7 节左右开始分枝, 枝条在秆的每节上 9–15 枚, 开展或近于水平开展, 长 18–35 cm, 直径 1–1.5 mm, 具 4–6 节, 节间长 0.3–1.1 cm, 常被白粉, 几实心。箨鞘迟落, 三角状长圆形, 革质, 紫绿色, 被稀疏灰黄色瘤基小刺毛, 约为节间长度的 3/5, 长 7–15 cm, 宽 1.9–3.7 cm, 先端短三角形, 顶端宽 2–4 mm, 纵脉纹明显, 小横脉不发育, 边缘通常无纤毛; 箨耳及鞘口两肩 缝毛缺失; 箨舌截平形或微作圆弧形, 紫色, 高 0.5–1 mm; 箨片外翻, 线状三角形或线形, 淡绿色, 常平坦, 长 0.5–4.5 cm, 宽 1–2 mm, 较箨鞘顶端稍窄, 边缘具小锯齿。小枝具叶 3–5 枚; 叶鞘长 (2.5) 3.5–5 cm, 淡绿色或紫绿色, 上部纵脊和纵脉纹明显, 边缘常无纤毛; 叶耳缺失, 鞘口两肩各具 5–7 枚灰色直立 缝毛; 叶舌斜截平形或近圆弧形, 紫色, 高约 0.5 mm; 叶柄长 1.5–2.5 mm, 初时被微毛; 叶片线状披针形, 纸质, 长 11–14 (16.5) cm, 宽 1.2–1.5 cm, 先端长渐尖, 基部楔形, 上面绿色, 下面灰绿色, 基部初时被灰黄色短柔毛, 次脉 3–4 对, 小横脉组成长方格子状, 边缘具小锯齿。花枝未见。笋期 5 月。

本种近似扫把竹 *F. fractiflexa* Yi, 但前者秆之节间中空; 秆环淡绿色; 秆箨短于节间长度, 革质; 叶鞘鞘口两肩各具 5–7 枚直立 缝毛可以区别。

秆用于制作毛笔杆。

泥巴山箨竹 新种 (图 5)

***Qiongzhuea multigemmia* Yi, sp. nov.** TYPE Sichuan (四川), Yingjing (荣经), Nibashan (泥巴山), alt. 1550–200 m, in shrub forest land on hill side or form bamboo pure forest, 1998–08–12, T. P. Yi (易同培) 98650 (type, SIFS).

Species *Q. verruculosae* Yi affinis, sed a qua internodiis culmorum primo gilvo–setulosis, scabris, ad latus ramosum (1) 2–4–porcatis et (2) 3–5–sulcatis; gemmis culmorum (2) 5–7; ramis (1) 3–13 in quoque nodo culmorum, gracilibus, 1–15 mm crassis; auriculis foliorum obscuris vel con–spicuis, fimbriatis; laminis subtus cinereis, nervis

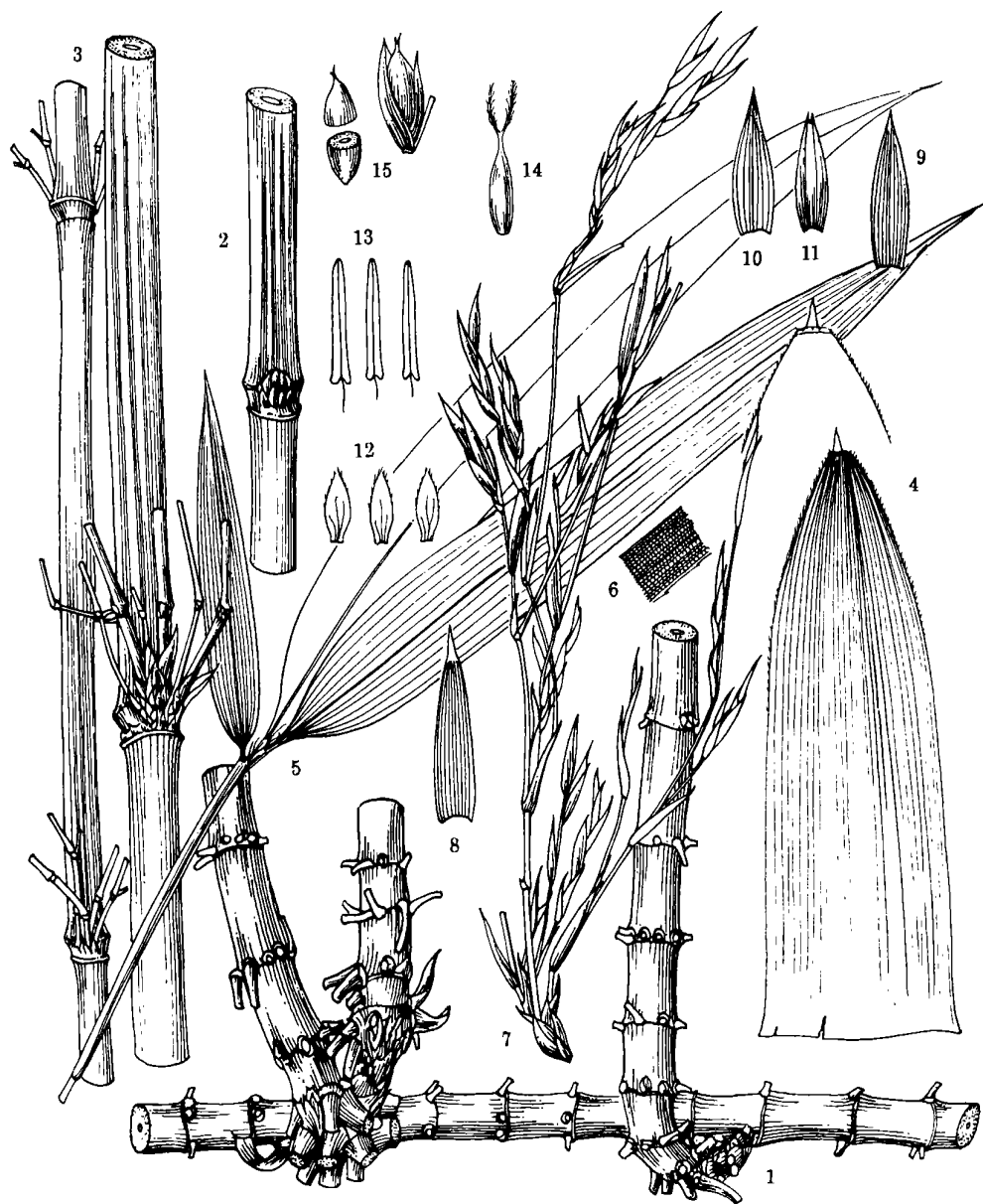


图 5 泥巴山箬竹

1. 地下茎及秆的基部; 2 秆的一节, 示秆芽; 3. 秆的一段, 示分枝; 4. 秆箨; 5. 具叶小枝;
6. 叶片的部分 (放大); 7. 花枝; 8. 苞片; 9. 颖; 10. 外稃; 11. 内稃; 12. 鳞被; 13. 雄蕊; 14. 雌蕊; 15. 果实。

Fig. 5 *Qiongzhusia multigemma* Yi 1. Rhizome with basal part of culm; 2 A node of culms showing its branching; 4. Culm sheath; 5. Branchlet with leaves; 6 A part of blade (enlarged); 7. Flowering branch; 8. Bract; 9. Glume; 10. Lemma; 11. Palea; 12. Lodicules; 13. Stamens; 14. Pistil; 15. Fruits.

secundariis 5(6) – jugis differt.

Rhizomata amphipodialia, internodiis 1~ 4 cm longis, 5~ 6 mm crassis. Culmi 1~ 3 m alti, 0.5~ 1(1.2) cm diam., apice erecti, internodiis (5) 16~ 18(22) cm longis, cylindricis, sed ad latus ramosum (1) 2~ 4 porcatis et (2) 3~ 5 – sulcatis, primo gilvo – setulosi et scabris, non grammatis, ligno 1~ 3 mm crasso, medullis membranaceis; nodi vaginarum angusti, primo dense cinereo – vel fulvo – setulosi; nodi culmorum leviter prominentes vel prominentes, sed ad nodos ramosum valde prominentes et annuliformi – articulati; intranodiis 1.5~ 5 mm altis. Gemmae (2) 5~ 7. Rami (1) 3~ 13 in quoque nodo, graciles, erecto – patentes, 10~ 25 cm longi, 1~ 1.5 mm crassi, subsolidi. Vaginae culmorum caducae, triangulato – oblongae, crasso – papyraceae, longitudine 1/2 totius internodii, 6~ 10 cm longae, 2.5~ 4.5 cm latae, apice 2~ 4 mm latae, dorso sparse adpresso – luteolo – tuberculato – strigosae, grammatae, margine superne ciliatae; auriculae et setae orales nullae; ligulae truncatae vel curvatae, c. 1 mm altae; laminae erectae, triangulatae, 2.5~ 8.5 mm longae, 2~ 4 mm latae, margine saepe involutae. Folia 2~ 3 in quoque ramulo; vaginae 3.5~ 5 cm longae, subcarinatae; auriculae obscurae vel conspicuae, fimbriis 3~ 5, erectis, 3~ 4 mm longis; ligulae subcurvatae, vel truncatae, 0.5~ 1 mm altae, breviter ciliatae, extra ligulae conspicuae; petioli 2~ 3(4) mm longi; laminae lineari – lanceolatae, papyraceae, 8.5~ 13 cm longae, 1.2~ 1.8 cm latae, apice longo – acuminatae, basi cuneatae raro late cuneatae, subtus glaucae, glabrae, nervis secundariis 5(6) – jugis, nervillis transversis in quadrata et rectangula consociatis, margine unilateri serrulatae. Rami florum caespitosi supra nodos culmi; bractea 1. inter axillam prophylo vel gemma. Inflorescentiae falsae, pseudospiculae purpureo – virides, leviter compressae, 1.5~ 3 cm longae, 3~ 5 mm latae; spiculae 4~ 5 – florum; rhachilla articuli 3~ 5 mm longi, c. 1 mm lati, glabri, prope superficies rhachillae complanati; gluma 1, tenuiter papyracea, glabra, lanceolata vel ovato – lanceolata, 8~ 18 mm longa, 2~ 4 mm lata, apice acuminata, 11 – nervis; lemma ovato – lanceolatum, apice acuminatum vel longe acuminatum, 1~ 1.4 cm longum, 3.5~ 4.5 mm latum, 7~ 9 – nervis; palea membranacea, 8~ 11 mm longa, dorso 2 – carinata, inter carinam c. 1 mm lata, 2~ 4 – nervis obscuris, apice bicuspidata; lodiculae 3, ovato – lanceolatae, membranaceae, 2.5~ 3 mm longae, nervillis conspicuis, margine superne ciliatae; stamina 3, antheris luteolis, 4.5~ 5 mm longis; ovarium ellipticum vel ovato – ellipticum, c. 2 mm longum, stylus 1, c. 1 mm longus, stigmata 2, plumosa, 1~ 3 mm longa. Caryopsis longe elliptica vel obovato – elliptica, purpureo – viridis, glabra, polita, 7~ 11 mm longa, 2.5~ 3.5 mm diam., pericarpium c. 1 mm crassum, apice stylis persistens, sulcis non ventralibus.

地下茎复轴型,竹鞭节间长 1~ 4 cm,直径 5~ 6 mm,淡黄色,无沟槽,有光泽,具小的中空,每节生根或瘤状突起 2~ 4 枚;鞭芽半圆形或卵圆形,贴生,近边缘初时被黄褐色硬毛。秆高 1~ 3 m,直径 0.5~ 1(1.2) cm,梢端径直;全秆具 18~ 25 节,节间长 (5) 16~ 18(22) cm,绿色,无白粉,圆筒形,但在分枝节间上部以下一侧具 2~ 4 纵脊及 3~ 5 纵沟槽或在秆下部具芽一侧仅有 1 纵脊和 2 纵沟槽,幼时从节间下部至上部具有由稀疏变密集的暗黄色短硬毛而粗糙,无纵

细线棱纹,中空,秆壁厚 1~3 mm,髓为膜质;箨环隆起,较窄而薄,初时密被灰色或黄褐色短硬毛,秆环微隆起,隆起或在分枝节上者显著隆起呈一圆脊,秆中上部者常有环形缝合线之关节;节内高 1.5~5 mm,常有黑垢,分枝节上者向下强烈变细。秆芽在秆之每节上(2)5~7枚,组成卵圆形的复合芽,贴生,芽鳞被黄褐色短硬毛。枝条在秆之每节上(1)3~13枚,细瘦,粗度大致近于相等,簇生,斜展,长 10~25 cm,直径 1~1.5 mm,具 4~7节,节间长 0.3~7 cm,节下初时有一圈厚白粉及微毛,并在以后变为黑垢,中空微小或实心。箨鞘早落,三角状长圆形,厚纸质,约为节间长度的 1/2,长 6~10 cm,宽 2.5~4.5 cm,先端短三角形,顶端宽 2~4 mm,背面具淡黄色稀疏贴生瘤基刺毛,纵脉纹明显,小横脉败育,边缘上部生有黄褐色纤毛;箨耳及鞘口两肩缝毛缺失;箨舌截平形或圆弧形,紫褐色或淡黄色,无毛,高约 1 mm,边缘具细缺刻;箨片直立,三角形,长 2.5~8.5 mm,宽 2~4 mm,边缘常内卷。小枝具叶 2~3枚;叶鞘长 3.5~5 cm,淡绿色,无毛,上部纵脊不明显或有时较明显,纵脉纹及上部两侧近边缘处小横脉明显,边缘无纤毛或有时外缘密生黄褐色纤毛;叶耳不明显或明显,上端具 3~5枚长 3~4 mm径直黄褐色缝毛;叶舌近圆弧形或截平形,紫褐色,高 0.5~1 mm,边缘初时具短纤毛,外叶舌显著;叶柄淡绿色,长 2~3(4) mm;叶片线状披针形,纸质,长 8.5~13 cm,宽 1.2~1.8 cm,先端长渐尖,基部楔形或少数阔楔形,上面深绿色,下面灰白色,两面俱无毛,次脉 5(6)对,小横脉组成正方形和长方形,边缘一侧具明显小锯齿,另一侧近于平滑。花枝无叶或有时混杂具叶小枝,簇生于主秆中上部各节上,其节下被微毛及厚白粉;苞片 1枚,纸质,无毛,宛如缩小的秆箨,或在花枝上部节上者类似颖片,生于花枝各节上,其腋间具前出叶或芽。假小穗紫绿色,稍作两侧压扁状,长 1.5~3 cm,宽 3~5 mm;小穗含 4~5朵小花;小穗轴节间长 3~5 mm,宽约 1 mm,无毛,淡绿色,近轴面扁平;颖 1枚,薄纸质,无毛,披针形或卵状披针形,长 8~18 mm,宽 2~4 mm,先端渐尖,具 11脉;外稃卵状披针形,薄纸质,无毛,先端渐尖或长渐尖,长 1~1.4 cm,宽 3.5~4.5 mm,具 7~9脉;内稃短于外稃,膜质,长 8~11 mm,背部具 2脊,脊间宽约 1 mm,具不明显的 2~4脉,先端具 2尖头,脊外两侧纵脉不明显;鳞被 3,卵状披针形,膜质,几等大,长 2.5~3 mm,纵脉纹明显,初时边缘上部生有小纤毛;雄蕊 3,花药黄色,长 4.5~5 mm,花丝白色;子房椭圆形或卵状椭圆形,长约 2 mm,无毛,花柱 1枚,长约 1 mm,柱头 2,羽毛状,长 1~3 mm。厚皮质颖果,长椭圆形或倒卵状椭圆形,新鲜时紫绿色,有光泽,无毛,长 7~11 mm,直径 2.5~3.5 mm,果皮厚约 1 mm,顶端具宿存花柱,无腹沟。笋期 4月下旬。花期 5月;果实成熟期 7~8月。

本种与瘤箨箬竹 *Q. verruculosa* Yi相近,但本种节间幼时自下而上具有由稀疏变密集的暗黄色短硬毛,粗糙,分枝一侧具(1)2~4纵脊及(2)3~5纵沟槽;秆芽(2)5~7枚组合为复合芽;枝条在秆每节上(1)3~13枚,细瘦,直径 1~1.5 mm;叶耳不明显或明显,具缝毛;叶片下面灰白色,次脉 5(6)对,易于区别。

屏山玉山竹 箭竹(四川屏山) 新种(图 6)

Yushania pingshanensis Yi, sp. nov. TYPE sichuan(四川), Pingshan(屏山), Laojunshan(老君山), under evergreen broad-leaf forest on mountain ridge, alt. 1500~2000 m, 1998-10-21, T. P. Yi(易同培) 98718(type, SIFS).

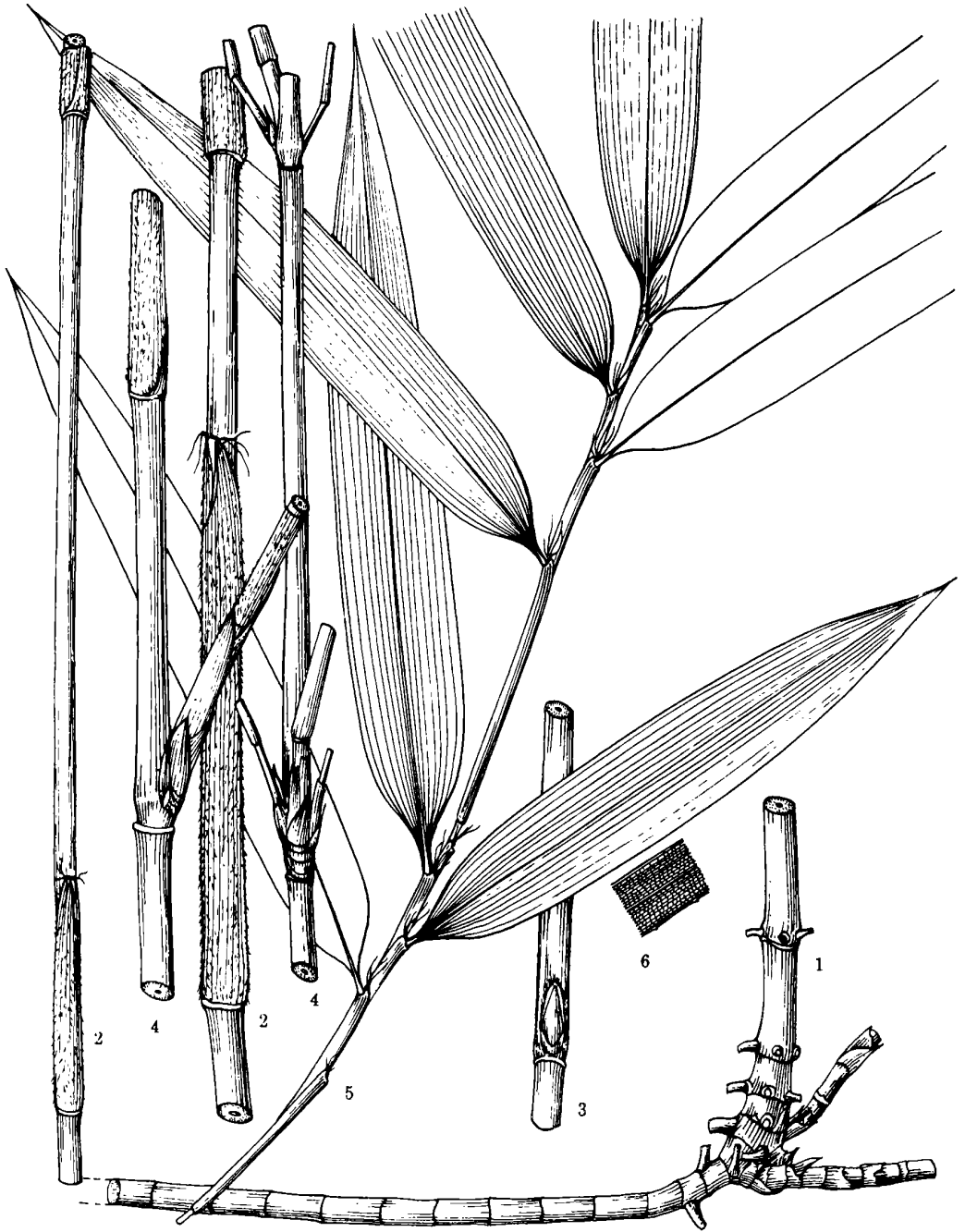


图 6 屏山玉山竹

1. 地下茎及秆的基部; 2. 秆的节间, 示秆箨; 3. 秆的一节, 示秆芽; 4. 秆的节间, 示分枝; 5. 具叶小枝; 6. 叶片的一部分 (放大).

Fig. 6 *Yushania pingshanensis* Yi l. Rhizome with basal part of culm; 2. Internodes of culm showing culm-sheath; 3. A node of culm showing its bud; 4. Internodes of culm showing its branching; 5. Branchlet with leaves; 6. A part of blade (enlarged).

Proxima Y. stramineae Yi, sed a qua culmis humilioribus, usque 2 m altis, 7.5 mm crassis, internodiis juventute tantum infra nodos crasso - farinosis; nodis vaginarum glabris; intranodiis farinosis; auriculis vaginarum parvis, setis oralibus brevibus, 3~ 6 mm longis; ligulis humilioribus, c. 0.6 mm altis; laminis reflexis; petiolis brevibus, 1~ 2.5 mm longis; laminis glabris recedit.

Colla culmorum (10) 17~ 45 cm longa, 3~ 5 mm crassa. Culmi 1.2~ 2 m alti, 5~ 7.5 mm diam., apice erecti, internodiis (6) 13~ 23 (35) cm longis, cylindricis, sed ad latus ramigenum vel gemmatum complanatis, primo infra nodos farinosis, leviter grammatis, cavis minimis, parietibus 1.5~ 2.5 mm crassis, medullis lamellosis; nodi vaginarum prominentes, glabri; nodi culmorum plani vel leviter tumidi in nodo ramoso; intranodiis 2.5~ 4 mm altis, primo farinosis. Ramus 1 in quoque nodo, diametro culmum subaequant. Vaginae culmorum persistentes, cartilagineae, dorso praeter superficies dense luteolo - tuberculato - hispidae, longitudine $1/4 \sim 3/4$ totius internodi, 7~ 10 cm longae, 1.7~ 2.6 cm latae, leviter grammatae, dense ciliatae; auriculae parvae, ellipticae vel falcatae, setae orales 3~ 5, 3~ 6 mm longae; ligulae truncatae vel subcurvatae, c. 0.6 mm altae; laminae reflexae, triangulato - lineares vel lineari - lanceolatae, (0.7) 1~ 3 cm longae, 2~ 3 mm latae. Folia 5~ 9 in quoque ramulo; vaginae 5.2~ 6.5 cm longae, haud ciliatae; auriculae minimae, setae orales 4~ 8, erectae, 3~ 8 mm longae; ligulae obliquo - truncatae, c. 0.3 mm altae; petioli 1~ 2.5 mm longi; laminae lineares vel lineari - lanceolatae, glabrae, 9~ 17 cm longae, 1.3~ 2.2 cm latae, antice longe acuminatae, basi cuneatae, subtus canae, nervis secundariis 6~ 7 (8) - jugis, nervillis transversis in rectangula et quadrata consociatis, margine serrulatae.

秆柄长 (10) 17~ 45 cm, 直径 3~ 5 mm, 具 12~ 35 节, 节间长 (0.5) 0.9~ 1.8 cm, 淡黄色, 无毛, 有光泽, 实心; 鳞片长三角形, 交互疏松排列, 纸质, 淡黄色, 无毛, 纵脉纹明显, 先端具小尖头, 边缘有短纤毛。秆散生, 高 1.2~ 2 m, 直径 5~ 7.5 mm, 梢端直立; 全秆约具 12 节, 节间长 (6) 13~ 23 (35) cm, 圆筒形, 但在具芽或分枝一侧微扁平, 绿色, 无毛, 初时节下有一圈厚白粉, 微显纵细线棱纹, 有小的中空, 秆壁厚 1.5~ 2.5 mm, 髓呈层片状; 箨环隆起, 紫褐色, 无毛; 秆环平, 但在分枝节上稍肿起或肿起; 节内高 2.5~ 4 mm, 幼时被白粉, 老时变为黑垢。秆的第 3~ 4 节开始分枝, 枝条 1 枚, 或因次生枝的发生而在秆上部节上可为 3 枚, 直立, 其直径与主秆近于相等, 节上可再分次级枝。箨鞘宿存, 紫色、淡黄色或暗褐色, 软骨质, 三角状长圆形, 除上部外密被淡黄色瘤基状刺毛, 约为节间长度的 $1/4 \sim 3/4$, 长 7~ 10 cm, 基部宽 1.7~ 2.6 cm, 顶端宽 4~ 5 mm, 纵脉纹稍明显, 小横脉不发育, 边缘密生紫褐色纤毛; 箨耳小, 椭圆形或镰形, 紫色, 边缘缝毛 3~ 5 枚, 长 3~ 6 mm; 箨舌截平形或近圆弧形, 紫褐色, 无毛, 高约 0.6 mm; 箨片外翻, 三角状线形或线状披针形, 无毛, 长 (0.7) 1~ 3 cm, 宽 2~ 3 mm, 较箨鞘顶端为窄, 边缘常内卷。小枝具叶 5~ 9 枚; 叶鞘长 5.2~ 6.5 cm, 淡绿色, 无毛, 上部纵脊及纵脉纹明显, 无缘毛; 叶耳微小, 紫色, 缝毛 4~ 8 枚, 淡黄色, 长 3~ 8 mm; 叶舌斜截平形, 深紫色, 无毛, 高约 0.3 mm; 叶柄长 1~ 2.5 mm, 紫色; 叶片线形或线状披针形, 纸质, 无毛, 长 9~ 17 cm, 宽 1.3~ 2.2 cm, 先端长渐尖, 基部楔形, 上面绿色, 下面灰绿色, 次脉 6~ 7 (8) 对, 小横脉组成长方形或正方形, 边缘具小锯齿。花枝未见。笋期 6 月。

本种近似黄壳竹 *Y. straminea* Yi, 但秆较矮小, 高仅达 2m, 直径达 7.5mm, 幼时节间仅节下具一圈厚白粉; 箨环无毛; 节内被白粉; 箨耳小, 缘毛短, 长 3~6mm; 箨舌低矮, 高约 0.6mm; 箨片外翻; 叶柄短, 长 1~2.5mm; 叶片无毛, 容易区别。

短毛玉山竹 新种 (图 7)

Yushania pubescens Yi, sp. nov. TYPE Sichuan (四川), Pingshan (屏山), Longhua (龙华), Baxianshan (八仙山), on steep slope of mountain area, alt. 750 m, 1998-10-20, T. P. Yi (易同培) 98707 (type, SIFS).

Species *Y. pingshanensis* affinis, sed differt culmis subsolidis, internodiis primo superne cano-setulosis; nodis vaginarum primo deorsum luteolo-hispidis; auriculis vaginarum nullis; fimbriis vaginarum foliatarum usque 2.5 cm longis, erectis; petiolis pilosis; laminis subtus pubescentibus et basi cinereo-albo-pilosis, usque 25(29) cm longis, 3.8 cm latis, nervis secundariis usque 10-jugis.

Colla culmorum (14) 24~45 cm longa, 2.5~4 mm crassa, solida. Culmi usque 2 malti, c. 0.5 cm diam., obliqui, internodiis (8) 28~33(40) cm longis, teretibus, primo superne cano-setulosis, infra nodos farinosis, leviter grammatis, subsolidis, medullis lamellosis; nodi vaginarum prominentes, primo deorsum luteolo-hispidi; nodi culmorum plani vel tumidi in nodo ramosi; intranodiis 3~4 mm altis, primo farinosis. Ramus 1 in quoque nodo, erectus vel erecto-patens, diametro quam culmo leviter gracilior. Vaginae culmorum persistentes, cartilagineae, glabrae vel glandaceo-adnato-tuberculato-hirsutae, longitudine c. 1/3~1/2 totius internodii, 7~10 cm longae, 12~17 mm latae, apice 3~4 mm latae, superne grammatae, dense ciliatae; auriculae nullae vel obscurae, setae orales 4~5 in quoque latere, glandaceae, erectae, 3~5 mm longae; ligulae truncatae, c. 1 mm altae; laminae reflexae, lineari-lanceolatae, dorso pubescentes, intus inferne cano-pilosae, 1~3 cm longae, 1.5~3 mm latae, margine saepe involutae. Folia (3) 7~12 in quoque ramulo; vaginae 6~10 cm longae, primo dense ciliatae; auriculae nullae vel obscurae, setae orales 3~7 in quoque latere, 0.5~2.5 cm longae, erectae; ligulae truncatae, c. 1 mm altae; petioli 3~5 mm longi, pubescentes; laminae lanceolatae, rigidiores, (12) 17~25(29) cm longae, 2.5~3.8 cm latae, subtus canae, pubescentes et basi cano-villosae, antice longe acuminatae, basi late cuneatae, nervis secundariis 7~10-jugis, nervillis transversis in rectangula consociatis, margine serrulatae.

秆柄长 (14) 24~45cm, 直径 2.5~4mm, 具 21~42 节, 节间长 0.3~1.8cm, 淡黄色, 实心; 鳞片长三角形, 疏松排列, 边缘初时有短纤毛。秆散生, 高达 2m, 直径 0.5cm, 斜倚; 全秆约具 13 节, 节间长 (8) 28~33(40) cm, 圆柱形, 初时节间上部被灰白色短硬毛而稍粗糙, 节下有一圈厚白粉, 纵细线棱纹稍明显, 近于实心, 髓为层片状; 箨环隆起, 淡黄褐色, 初时具下向淡黄色刺毛; 秆环平, 或在分枝节上稍肿起; 节内高 3~10mm, 初时被白粉。秆之第 2~3 节开始分枝, 每节分枝 1 枚, 直立或斜展, 直径稍小于主秆, 在其节上可分生次级枝。箨鞘宿存, 软骨质, 无毛或被黄褐色贴生瘤基刺毛, 约为节间长度的 1/3~1/2, 长 7~10cm, 基部宽 12~17mm, 顶端宽 3~4mm, 纵脉纹在中部以上清晰, 小横脉不发育, 边缘密生黄褐色或褐色纤毛; 箨耳缺失或不明显, 鞘口两肩各具 4~5 枚黄褐色长 3~5mm 直立纤毛; 箨舌截平形, 紫褐色, 高约 1mm; 箨

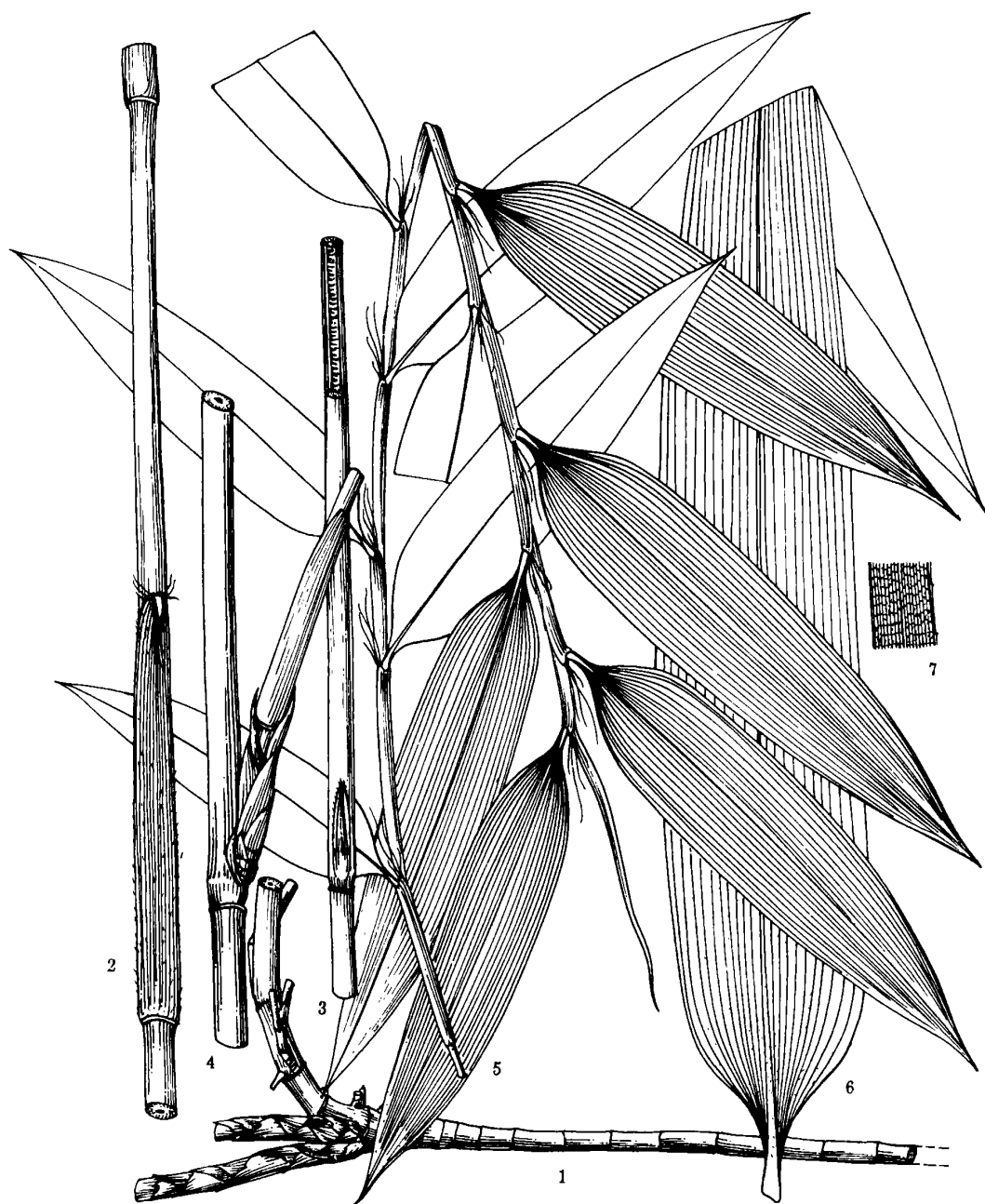


图 7 短毛玉山竹

1. 地下茎及秆的基部; 2. 秆的一个节间, 示宿存秆箨; 3. 秆的一节, 示秆芽及髓部;

4. 秆的一节, 示分枝; 5. 具叶小枝; 6. 叶片 (原大); 7. 叶片的一部分 (放大)。

Fig. 7 *Yushania pubescens* Yi 1. Rhizome and basal culm; 2. A node of culm showing persistent culm sheath; 3. A node of culm showing its bud and medulla; 4. A node of culm showing its branching; 5. Branchlet with leaves; 6. A blade (natural size); 7. A part of blade (enlarged).

片外翻,线状披针形,淡绿色,背面被微毛,腹面下部有灰白色柔毛,长 1~3cm,宽 1.5~3mm,边缘常内卷。小枝具叶(3)7~12枚;叶鞘长 6~10cm,无毛,背部纵脊及纵脉纹均显著,边缘密生棕色纤毛或后期脱落;叶耳缺失,或不明显,鞘口两肩各具 3~7枚淡黄褐色或紫褐色长 0.5~2.5cm 直立繸毛;叶舌截平形,紫黑色,高约 1mm;叶柄长 3~5mm,紫褐色,两面均被短柔毛;叶片披针形,质地较坚韧,长(12)17~25(29)cm,宽 2.5~3.8cm,上面绿色,无毛,下面灰绿色,被微毛,并在其基部被灰白色柔毛,先端细长渐尖,基部阔楔形,次脉 7~10对,小横脉组成长方形,边缘具小锯齿。花枝未见。笋期 7月。

本种相似屏山玉山竹 *Y. pingshanensis* Yi.不同在于前者之秆近实心,节间幼时上部被灰白色短硬毛;箨环初时被下向淡黄色刺毛;箨耳缺失;叶鞘口两肩具长达 2.5cm 直立繸毛;叶柄被毛;叶片背面被微毛,并在基部被灰白色柔毛,长达 25(29)cm,宽达 3.8cm,次脉多达 10对。

半耳箬竹 (植物分类学报)新组合

Indocalamus semifalcatus (H. R. Zhao et Y. L. Yang) Yi, comb. nov.

Indocalamus longiauritus Hand. – Mazz. var. *semifalcatus* H. R. Zhao et Y. L. Yang in Acta Phytotax. Sin. 23(6): 464. 1985 et Fl. Reip. Pop. Sin. 9(1): 697. pl. 213. 8~11. 1996; S. L. Zhu et al., A Comp. Chin. Bamb. 231. 1994; T. P. Yi in Bamb. Fl. Sichuan 329. 1997 et Fl. Sichuan. 303. 1998. TYPE Sichuan(四川), Guanxian(灌县), Erwangmiao(二王庙), H. R. Zhao(赵惠如) Sine numero (typus, N).

半耳箬竹 原变型

f. *semifalcatus*

半耳箬竹箨耳和叶耳均较小,为半镰形,叶片下面无毛,淡绿色,很容易与其他种区别,故于重新组合。

产四川、福建、广西等省区。

花叶半耳箬竹 新变型

f. *luteolivittatus* Yi, f. nov. TYPE Sichuan(四川), Pingshan(屏山), Longhua(龙华), Yukong(鱼孔), alt 750 m, 1998–10–21, T. P. Yi(易同培) 98706(type, SIFS).

A typo recedit laminis foliorum luteo- vittatis.

本变型与原变型的区别在于叶片具淡黄色纵条纹。可栽培作观赏。

Some New Taxa of *Bambusoideae* in Western Sichuan, China

Yi Tongpei

(Forestry School of Sichuan Province, Dujiangyan 611830)

Key words *Bambusoideae*; Sichuan; New taxa