

On an undescribed *Sinoboletus* from China

ZANG Mu¹ YANG Zhu-Liang¹ ZHANG Ying²

(¹Cryptogamic Herbarium, Kunming Institute of Botany, Academia Sinica, Kunming, 650204; ²Southwest Forestry College, Kunming, 650224)

ABSTRACT: A new taxon *Sinoboletus wangii* is proposed in the family Boletaceae. It is characterized by the tomentose pileus, stipes subclavate, and fine ridges striate, but not reticulated and the basidiospores are usually small, less than 6 μ m long, sometimes reaching about 16 μ m long. It is mycorrhizal fungus associated with family Fagaceae. This species is dedicated to a distinguished Chinese mycologist Prof. Dr. Yun - Chang (Wei - Qing) Wang on the occasion of his 100th birthday and his glorious 75th anniversary of following upon a mycological career.

KEY WORDS: *Sinoboletus wangii* sp. nov. Boletaceae, mycorrhiza.

牛肝菌类一新种——蔚青华牛肝菌

臧穆¹ 杨祝良¹ 张颖²

(¹中国科学院昆明植物研究所 隐花植物标本馆, 昆明 650204; ²西南林学院, 昆明 650224)

摘要: 蔚青华牛肝菌, 其盖表有绒毛, 柄等粗而细长, 具棱纹无网纹, 担孢子长短兼存, 6–16 μ m 兼之。本种庆祝著名真菌学家蔚青 王云章教授, 欣逢公百年华诞, 其对西南菌学研究和人才培养, 屡蒙厚赐, 感不胜言, 谨以此名, 敬寄慕念。

关键词: 蔚青华牛肝菌

中图分类号: Q939.5 文献标识码: A 文章编号: 1672-6472 (2006) 03-0366-0367

Sinoboletus wangii M. Zang, Zhu L. Yang et Y. Zhang, sp. nov. (Fig. I: 1 – 6)

蔚清华牛肝菌

Pileus 1.5 – 2.5 cm latus, primum convexus, tomentosus, rubineus vel roseolus. Contextus 0.5 – 1 cm crassus, flavus, usque flavidus, exposito caerulescens. Hymenium clare flavum vel aureum, decurrens. Tubis bistratis adnatis instructis, tubis superioribus 0.1 – 0.3 mm longis, 0.1 – 0.2 mm crassis, inferioribus 2 – 4 mm longis, 0.2 – 0.4 mm crassis, tramis striatis, poris angularibus vel irregularibus, 9 – 11 per cm praeditis. Stipes 3 – 5 \times 0.2 – 0.3 cm, clavatus, haud reticulatus, apice rubidus striatus, basim versus bulbosus, albidus. Basidiosporae variabiles, 6 – 16 \times 4 – 6 μ m, ellipsoideae, laeves, flavo – hyalinae. Basidia subclavata, late elliptica, 15 – 20 \times 9 – 12 μ m. Pleurocystidia clavata 20 – 40 \times 7 – 12 μ m, mamillata. Cheilocystidia fusiformia 20 – 45 \times 7 – 16 μ m. Tramae tubi parallelonevosae.

China, Prov. Yunnan (云南省), Lijiang Diqu (丽江地区), Laojun Shan (Mts.) (老君山) 2600m. alt. Shi Tou village (石头乡), under *Castanopsis delavayi* Franch, Y. Zhang (张颖) 4407, 28 VIII 2005. HKAS: 49906 (Holotypus).

Pileus 1.5 – 2.5 cm broad, convex when young, expanding to plane, tomentose. rubellous or pale roseous. Context 0.5 – 1 cm thick, yellow to pale yellow, changing blue on exposure. Hymenophore

bright yellow to golden - yellow, adnate to sinuate – adnate, decurrent. Tubes compound, produced in two definite layers, superior 0.1 – 0.3 mm long, 0.1 – 0.2 mm diam, inferior 2 – 4 mm long, 0.2 – 0.4 mm diam, angularis or irregularly angularis, 9 – 11 pores per cm. Stipes 3 – 5 × 0.2 – 0.3 cm, clavate to equal, ruby - red apically, not reticulate but striate, at the base bulbous, whitish. Basidiospores variable, 6 – 16 × 4 – 6 μm, ellipsoid, smooth, hyaline to pale yellow. Basidia obclavate or broadly-elliptic, 15 – 20 × 9 – 12 μm. Pleurocystidia clavate 7 – 12 × 20 – 40 μm, mamillate. Cheilocystidia fusiform 20 – 45 × 7 – 16 μm. Tube trama provided with parallel veins.

Commentary: *Sinoboletus wangii* is characterized by the reddish pileus and variable-sized basidiospores, and differs from *Sinoboletus tengii* M. Zang et Y. Liu (2002). The pleurocystidia often occurs mamillate elements on the surface. It is easily separated from the other relative taxa in the genus *Sinoboletus* (Zang, Li & Petersen, 2001).

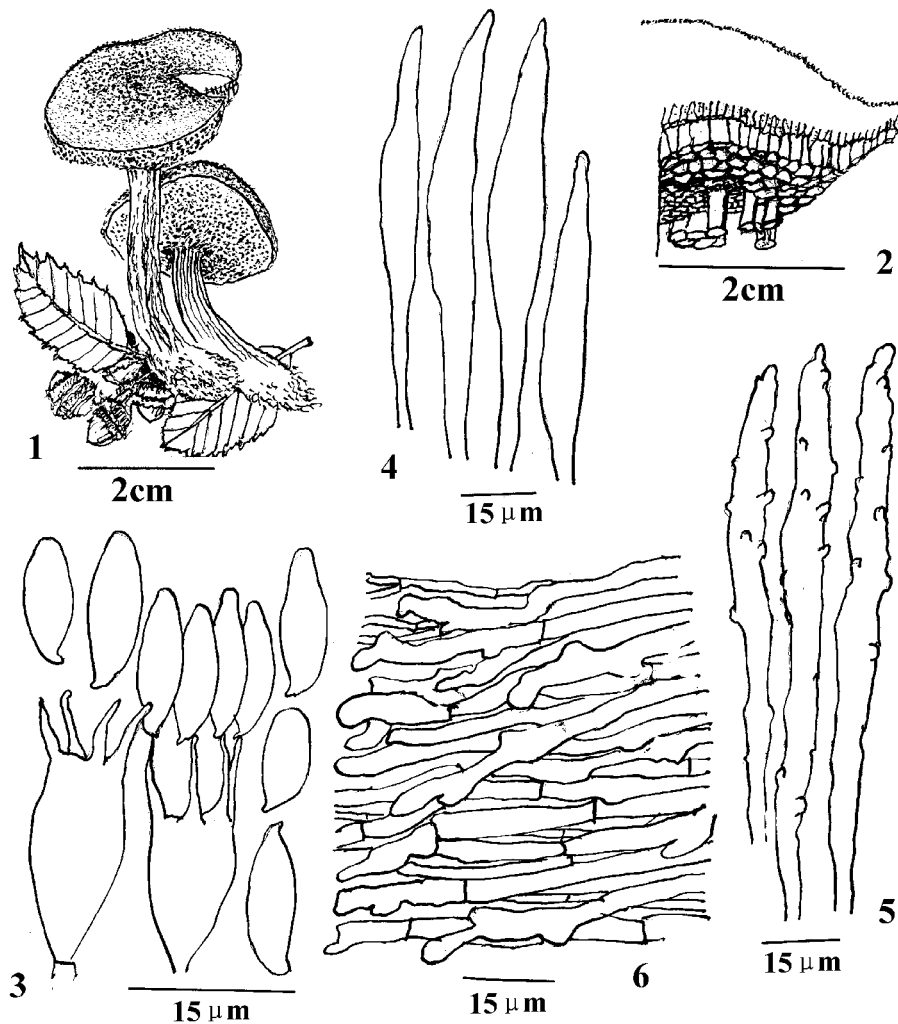


Fig 1: *Sinoboletus wangii* M. Zang, Zhu L. Yang et Y. Zhang, sp. nov. 蔚清华牛肝菌 (新种)

1. Basidiocarps; 2. Stratose hymenium; 3. Basidia and basidiospores; 4. Cheilocystidia; 5. Pleurocystidia; 6. Tubetrama

[REFERENCES]

- Zang M, Liu Y, 2002. A new Bolete, *Sinoboletus tengii* from China, *Acta Botanica Yunnanica*, **24** (2): 205 – 208
 Zang M, Li TH, Petersen RH, 2001. Five new species of Boletaceae from China. *Mycotaxon*, **80**: 481 – 487