

## On an undescribed *Sinoboletus* from China

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**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  $\mu\text{m}$  long, sometimes reaching about 16  $\mu\text{m}$  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 100<sup>th</sup> birthday and his glorious 75<sup>th</sup> 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

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**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  $\mu\text{m}$  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

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*Sinoboletus wangii* M. Zang, Zhu L. Yang et Y. Zhang, sp. nov. ( Fig. 1: 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  $\mu\text{m}$ , ellipsoideae, leaves, flavo - hyalinae. Basidia subclavata, late elliptica, 15 - 20  $\times$  9 - 12  $\mu\text{m}$ . Pleurocystidia clavata 20 - 40  $\times$  7 - 12  $\mu\text{m}$ , mamillata. Cheilocystidia fusiformia 20 - 45  $\times$  7 - 16  $\mu\text{m}$ . Tramae tubi parallelovesosae.

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).

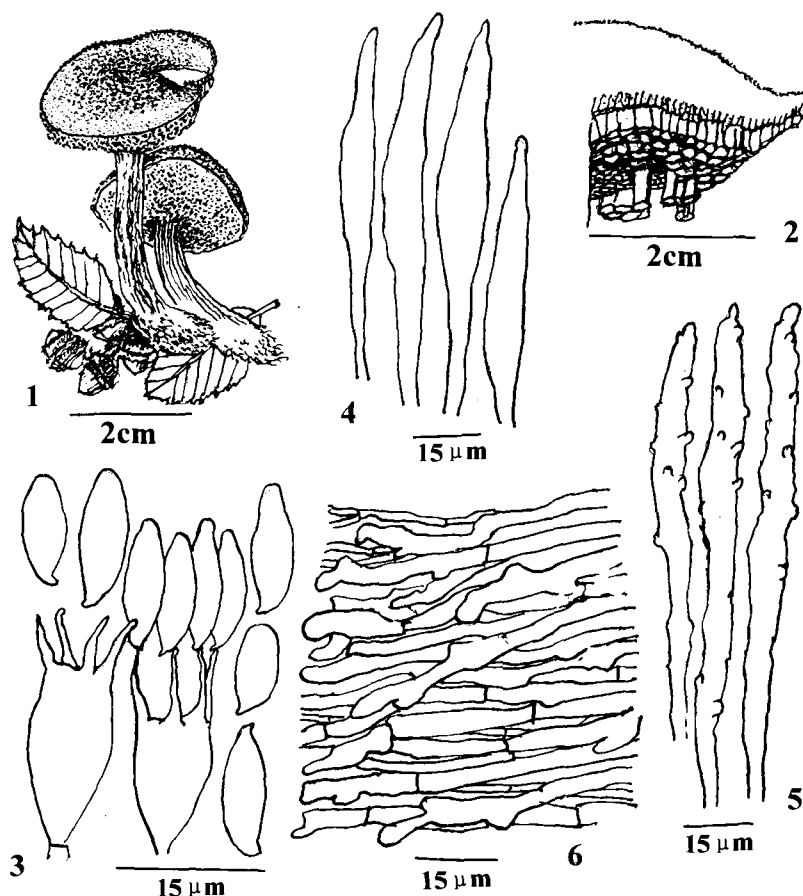


Fig 1: *Sinoboletus wangii* M. Zang, Zhu L. Yang et Y. Zhang, sp. nov. 蔚清华牛肝菌 (新种)

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

#### [REFERENCES]

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