

陕西鸟巢兰属一新种——太白山鸟巢兰

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Neottia taibaishanensis, a new species of Orchidaceae from Shaanxi, China

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Abstract *Neottia taibaishanensis* P. H. Yang & K. Y. Lang from Shaanxi, China, is described and illustrated. The new species is similar to *N. acuminata* Schltr. in habit, but differs by the plant being nearly grey-black, the inflorescence axis appressed silvery-grey villose, the sepals, petals and labellum grey-black yet margin grey-white, and the labellum broadly obovate or suborbicular, and apex mucronate.

Key word *Neottia*, *Neottia taibaishanensis* P. H. Yang & K. Y. Lang, Orchidaceae, new species, Shaanxi, China.

摘要 对中国陕西产的兰科新种太白山鸟巢兰*Neottia taibaishanensis* P. H. Yang & K. Y. Lang 作了描述和绘图。本新种与尖唇鸟巢兰*N. acuminata*相似,但整个植株为灰黑色,花序轴被贴伏银灰色长柔毛,萼片、花瓣和唇瓣灰黑色而边缘为灰白色,唇瓣宽倒卵形或近圆形,先端具短尖而不同。

关键词 鸟巢兰属; 太白山鸟巢兰; 兰科; 新种; 陕西; 中国

2003年8月,本文第一作者在陕西太白山北坡(眉县)太白山森林公园下板寺至七女峰途中的巴山冷杉*Abies fargesii* Franch.林和牛皮桦*Betula utilis* D. Don混交林下发现几株体态类似尖唇鸟巢兰*Neottia acuminata* Schltr.的兰科植物,但整个植株的颜色完全不同。这引起了作者的注意,详细观察了植株的花,发现其唇瓣与尖唇鸟巢兰的唇瓣形状差别甚大,初步确定是一个新种,拍摄了照片,采集了两份花期标本。经与本文第二作者共同研究,确定该植物为鸟巢兰属一新种。

太白山鸟巢兰 新种 图1

Neottia taibaishanensis P. H. Yang & K. Y. Lang, sp. nov. Fig. 1

Species affinis *N. acuminatae* Schltr., sed tota planta fere griseo-nigra, axe inflorescentiae adpresse argenteo-cinereo-villoso, sepalis, petalis et labello griseo-nigris sed margine griseo-albis, labello late obovato vel subrotundato, apice mucronato differt.

Herba saprophytica; tota planta fere griseo-nigra, 12–40 cm alta, rhizomate brevi radices fibrosas caespitosas carnosas emittente. Caulis erectus, subglaber, aphyllus, infra medium 3–4-vaginatus, vaginis membranaceis, cylindratis, amplexicaulibus. Inflorescentia racemosa,

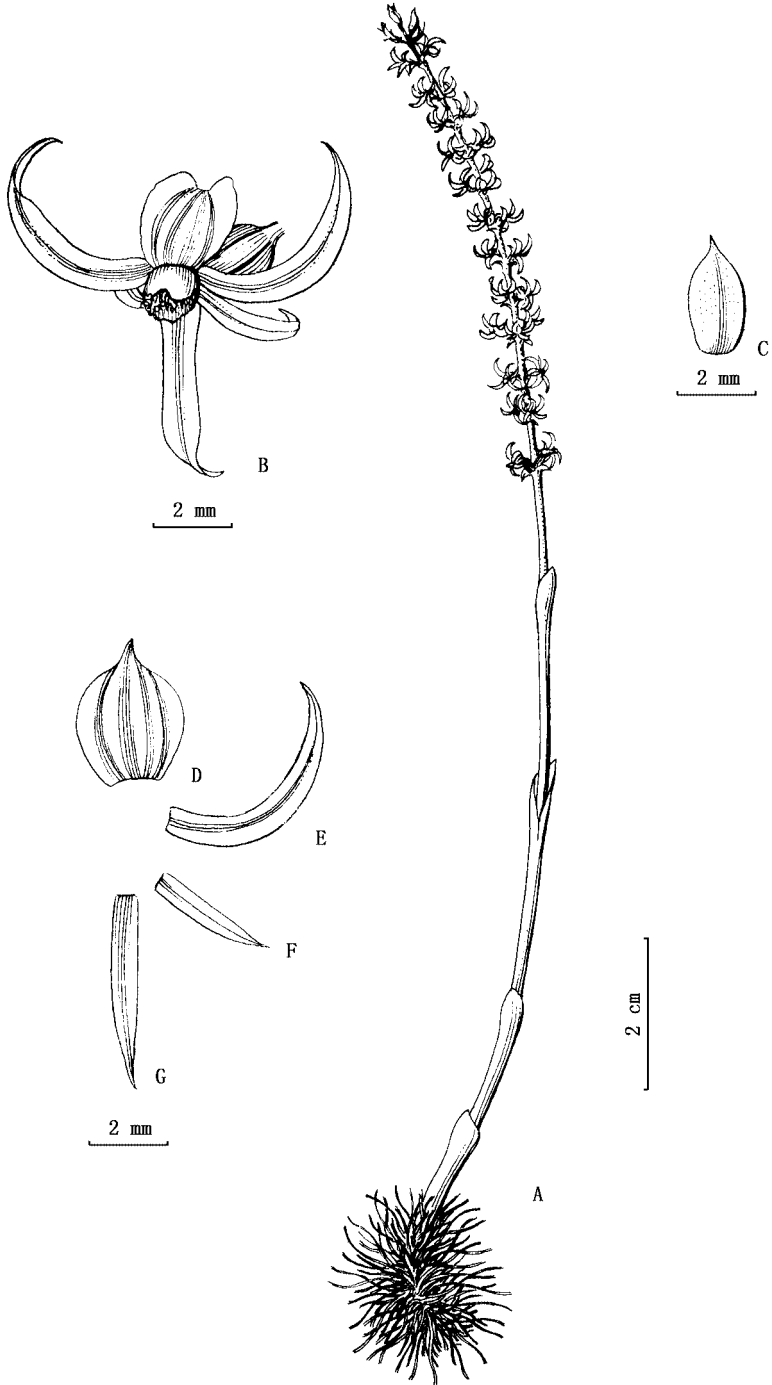


图1 太白山鸟巢兰 A, 体态; B, 花, 正面观; C, 苞片, 背面观; D, 唇瓣, 正面观; E, 侧萼, 正面观; F, 花瓣, 正面观; G, 中萼, 正面观。(李志民根据杨平厚4597号标本绘)

Fig. 1. *Neottia taibaishanensis* P. H. Yang & K. Y. Lang. A, habit; B, flower, front view; C, bract, back view; D, labellum, front view; E, lateral sepal, front view; F, petal, front view; G, dorsal sepal, front view. Drawn by Z. M. Li from the type gathering, P. H. Yang 4597, WUK.

terminalis, 4–12 cm longa, saepe 20–40-flora; axis inflorescentiae adpresse argenteo-cinereo-villosus; bractae oblongae 2.5–3.5 mm longae, 1–1.5 mm latae, apice mucronatae. Flores haud resupinati, minores, saepe 3–4-verticillati; sepala, petala et labellum griseo-nigra sed margine griseo-alba; sepalum intermedium lineari-lanceolatum, glabrum, circ. 5 mm longum, 0.5–0.6 mm latum, apice acuminatum, 1-nerviium; sepala lateralia eo intermedio similia, sed paulo latiora, obliqua, falciformia, glabra, apice acuminata, 1-nervia; petala anguste lanceolata, glabra, 3 mm longa, 0.5 mm lata, apice acuminata, 1-nervia; labellum adaxiale late obovatum vel subrotundatum, 3 mm longum, 2–2.2 mm latum, apice mucronatum, 3–4(–5)-nerviium; columna brevissima, manifeste brevior quam anthera vel rostellum; ovarium obovatum, haud contortum, circ. 3 mm longum, circ. 2 mm diam., subglabrum, stipitatum, stipite 3–4 mm longo glabro.

China (中国). **Shaanxi (陕西):** Taibaishan (太白山) Forestry Park, on the way from Xiabansi (下板寺) to Qinufeng (七女峰), under mixed forests of *Abies fargesii* Franch. and *Betula utilis* D. Don, alt. 2850 m, 2003-08-04, P. H. Yang (杨平厚) 4597 (holotype, in Herbarium, Northwestern Institute of Botany of Northwest Sci-Tech University of Agriculture and Forestry, WUK).

腐生草本, 整个植株几乎灰黑色, 高12–40 cm, 具短的根状茎和成簇的肉质纤维根。茎直立, 近无毛, 无绿叶, 中部之下具3–4枚鞘; 鞘膜质, 圆筒状, 抱茎。花序顶生, 总状, 长4–12 cm, 通常具20–40朵花; 花序轴被贴伏的银灰色长柔毛; 苞片距圆形, 长2.5–3.5 mm, 宽1–1.5 mm, 先端具短尖。花不倒置, 较小, 常3–4朵轮生; 萼片、花瓣和唇瓣灰黑色而边缘为灰白色; 中萼片条状披针形, 无毛, 长约5 mm, 宽0.5–0.6 mm, 先端渐尖, 具1脉; 侧萼片与中萼片相似, 但稍宽, 偏斜, 镰刀状, 无毛, 先端渐尖, 具有1脉; 花瓣狭披针形, 无毛, 长3 mm, 宽0.5 mm, 先端渐尖, 具1脉; 唇瓣位于上方, 宽倒卵形或近圆形, 长3 mm, 宽2–2.2 mm, 先端具短尖, 具3–4(–5)脉; 蕊柱极短, 明显短于花药或蕊喙; 子房倒卵形, 不扭转, 几乎无毛, 长约3 mm, 直径约2 mm, 具柄, 柄长3–4 mm, 无毛。

本种与尖唇鸟巢兰 *Neottia acuminata* Schltr. 相似, 但整个植株为灰黑色, 花序轴被贴伏银灰色长柔毛, 萼片、花瓣和唇瓣灰黑色而边缘为灰白色, 唇瓣宽倒卵形或近圆形, 先端具短尖而不同。在尖唇鸟巢兰, 植株黄色或黄褐色, 花序轴无毛, 花黄褐色, 唇瓣卵形、卵状披针形或披针形。

鸟巢兰属 *Neottia* Guett. 全世界共8种, 我国有7种(陈心启, 1999)。在发现本种以前, 陕西仅记载有尖唇鸟巢兰(陈心启, 1999)。

本种目前仅在陕西太白山北坡(眉县)发现, 生长于海拔2850 m的巴山冷杉 *Abies fargesii* Franch. 和牛皮桦 *Betula utilis* D. Don 混交林下。其生境的枯枝落叶和腐殖质层均很厚, 荫湿, 苔藓植物生长茂盛。所找到的个体数量不多, 因此该种可能需要保护, 以免灭绝。

参 考 文 献

Chen S-C (陈心启). 1999. *Neottia* Guett. In: Flora Reipublicae Popularis Sinicae (中国植物志). Beijing: Science Press. 17: 97–103.