

研究報告

## 臺灣新歸化樹種-陰香 (樟科)

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【摘要】陰香(樟科)原產亞洲東南部及東印度群島，先前曾被引進台灣作為觀賞樹木，最近在南投縣集集鎮附近被發現野外族群，為臺灣樟科一新歸化木本植物。本報告描述其形態特徵、地理分布及生育地環境並提供彩色圖片與繪圖，另外再作檢索表與其相似種台灣特有種土肉桂在外觀形態特徵之比較。

【關鍵詞】樟科、陰香、歸化植物、臺灣、植物分類學

Research paper

## *Cinnamomum burmannii* (Nees) Blume (Lauraceae), a Newly Naturalized Tree in Taiwan

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【Abstract】A newly naturalized tree, *Cinnamomum burmannii* (Nees) Blume, has been found in central Taiwan. The morphology of *C. burmannii* (Nees) Blume is very similar to *C. osmophloeum* Kanehira, and is distinguished from the latter by its dark green leaf abaxial surface, reddish branchlet, and truncate persistent tepals. This Lauraceae species, native to southeast Asia and Indonesia, is described and illustrated in this report.

【Key words】Lauraceae, *Cinnamomum burmannii* (Nees) Blume, Naturalized plant, Taiwan, Taxonomy.

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## INTRODUCTION

The genus *Cinnamomum* comprises over 250 species of trees and shrubs from east and southeast Asia to Australia (Bailey and Bailey, 1976; Li *et al.*, 2003; Riffle, 1998; Wagner *et al.*, 1999). *C. burmannii*, native to southeast Asia and Indonesia, is cultivated in the world for spice, ornamental, and general plantation purposes. In Hawaii, *C. burmannii* is cultivated and naturalized on Kauai, Oahu, Maui, and Hawaii (Wagner and Herbst, 1995; Meidell *et al.*, 1997; Wagner *et al.*, 1997; Wagner *et al.*, 1999). Puu Kukui Watershed Management Centre, which considered this species as a fairly widespread serious weed and tried to control its satellite populations (Meidell *et al.*, 1997).

In recent years, there are many alien species have been naturalized in Taiwan (Boufford & Peng, 1993; Peng *et al.*, 1998a; Peng *et al.*, 1998b; Peng & Yang, 1998; Tseng & Ou, 1999; Tseng & Ou, 2002; Tseng & Peng, 2004; Hsu *et al.*, 2006). In our recent investigation of central Taiwan, this aggressive species, *C. burmannii* (Nees) Blume, was discovered. In Chi-Chi, there are a few locations where *C. burmannii* is naturalized in moist to wet disturbed areas near its original plantation. However, these infestations are not dense and widespread as in Hawaii Islands. The morphology of this species is very similar to *C. osmophloeum*. The description and illustration of this species, together with a key to separate it from *C. osmophloeum* are provided as follow.

## Key to *C. burmannii* and *C. osmophloeum*

1. The abaxial surfaces of leaves dark green, branchlet usually reddish, persistent perianth truncate ----- *C. burmannii*
2. The abaxial surfaces of leaves gray, branchlet usually green, persistent perianth triangular ----- *C. osmophloeum*

## TAXONOMIC TREATMENT

*Cinnamomum burmannii* (Nees) Blume, Bijdr. 569. 1826. 陰香 Fig. 1. & 2.

Trees; young branches terete, glabrous. Leaves glossy green, alternate, often opposite at tips of young branches, narrowly ovate to ovate, ca. 10 cm long, 3-4 cm wide, tripliveined, glabrous, apex gradually acute. Flowers strigose, in short, paniculate inflorescences; tepals 6, equal, ca. 4 mm long, strigose; fertile stamens 9, outer 6 introrse, inner 3 extrorse, staminodia present, cordate. Fruit an ellipsoid berry, subtended by a small cupule that has the basal, truncate parts of tepals attached to the rim.

## Specimen Examined

Taiwan. Nantou County. Chichi (集集), elev. ca. 230 m, on the roadside. 1 Aug. 2007, Tseng 4059 (TCF).

## Distribution

*C. burmannii* (Nees) Blume is natives to southeast Asia and Indonesia (Li *et al.*, 2003), and has naturalized to the Hawaii Islands (Imada *et al.*, 2000; Starr *et al.*, 2003). In Taiwan it was found in the Nantou County occurs in open area at an 230 m. a. s. l.



Fig. 1. *Cinnamomum burmannii* (Nees) Blume 1. Habit, 2. Flower, 3. Fruits, 4. Perianth tube with truncate persistent tepals, 5. Seed.

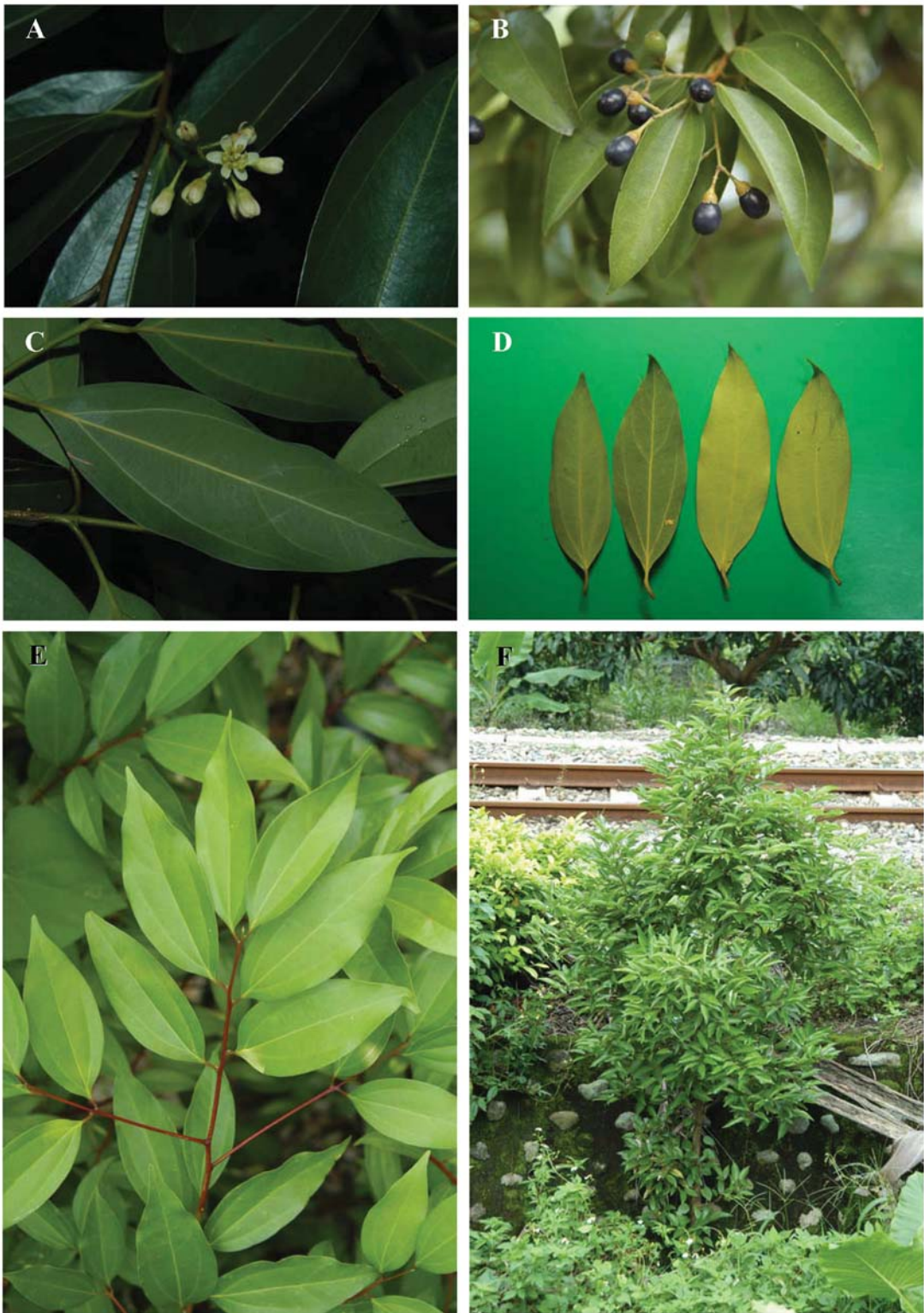


Fig. 2. *Cinnamomum burmannii* (Nees) Blume A. Flowers, B. Fruits, C. Leaves abaxial view, D. Leaves abaxial view: *C. burmannii* (left) & *C. osmophloeum* (right), E. Young branchlet, F. Habitat.

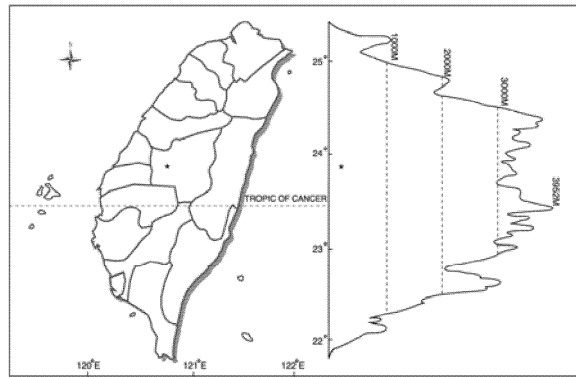


Fig. 3. Distribution of *Cinnamomum burmannii* (Nees) Blume in Taiwan.

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