

• 中文名稱：刺杜密

• 英文名稱：Prickly Bridelia

• 學名：
*Bridelia balansae*Tutch.
*Bridelia insulana*Hance (禾串樹-廣州)

• 科名：大戟科(Euphorbiaceae)土密樹屬(Bridelia)

刺杜密(臺灣)，刺土蜜、刺楠，禾串樹(廣州)，大葉逼迫子(廣東高要)，禾串土蜜樹(植物分類學報) **Species:** *Bridelia tomentosa* Blume (Tomentose Bridelia / Pop-gun Seed)

• Official and Common Names in Taiwan:

- **Ci-Du-Mi (刺杜密)** — The most recognized name in the Flora of Taiwan.
- **Ci-Tu-Mi (刺土蜜)** — A common variation meaning "Thorny Earth-Honey."
- **Ci-Nan (刺楠)** — Referring to its hardy, Phoebe-like (Nanmu) wood properties.

• 別名：

• Regional Names in Mainland China:

- **He-Chuan-Shu (禾串樹)** — Common name in Guangzhou.
- **Da-Ye-Bi-Po-Zi (大葉逼迫子)** — Local name in Gaoyao, Guangdong.
- **He-Chuan-Tu-Mi-Shu (禾串土蜜樹)** — Scientific name referenced in the *Acta Phytotaxonomica Sinica*.

• 原產地：印度、爪哇 Distributed across India and Java.

• 分佈：本島低海拔地區，尤以八卦山地區分布普遍。"Distributed throughout the low-altitude areas of the island, it is particularly prevalent in the **Baguashan (Bagua Mountain) region.**"

• 用途：1. 木材可用來製作農具及供作炭薪：散孔材，邊材淡黃棕色，心材黃棕色，紋理稍通直，結構細緻，材質稍硬，較輕，氣乾比重0.6，乾燥後不開裂，不變形，耐腐，加工容易，可供建築、家具、車輛、農具、器具等材料。2. 嫩芽是臺灣琉璃小灰蝶的幼蟲食餌，使長相平凡的它為我們帶來山林中偶遇的湛藍色驚喜。3. 樹皮含鞣質，可提取栲膠。 **Uses and Ecological Value:**

1. **Timber for Tools and Fuel:** The wood is a **diffuse-porous wood** with pale yellowish-brown sapwood and yellowish-brown heartwood. It features a relatively straight grain and a fine texture.

The material is **moderately hard yet lightweight**, with an air-dry density (specific gravity) of **0.6**. It is highly valued because it **does not crack or deform** after drying and is **resistant to decay**. Easy to process, it is used for construction, furniture, vehicles, agricultural implements, and various household utensils. It is also an excellent source of charcoal and firewood.

2. **Ecological Role (Host Plant):** The **tender shoots** serve as the primary **larval food source** for the **Common Hedge Blue butterfly** (*Acytolepis puspa myla*). This allows the otherwise plain-looking tree to bring us the "brilliant blue surprises" encountered by chance in the mountains.
3. **Industrial Use (Tannins):** The bark contains **tannins**, which can be extracted to produce **tannin extract (tanning liquor)** for leather processing or dyes.

• 莖 :

喬木，高可達17公尺，樹幹通直，胸徑達30公分，幹基有刺狀突起，莖則散生小刺，樹皮黃褐色，近平滑，內皮褐紅色；小枝具有凸起的皮孔，無毛。 **Trunk and Stems:** A **tree** reaching up to **17 meters** in height, featuring a **straight, erect trunk** with a diameter at breast height (DBH) of up to **30 cm**. The **base of the trunk is armed with thorn-like protrusions**, while the stems are scattered with smaller prickles. The **bark is yellowish-brown** and relatively smooth, with a **reddish-brown inner bark**. The branchlets are marked with **prominent lenticels (breathing pores)** and are glabrous (hairless).

• 葉 :

葉互生，葉片近革質，橢圓形或長橢圓形，長5~25公分，寬1.5~7.5公分，先端漸尖或尾狀漸尖，基部鈍，無毛或僅在背面被疏微柔毛，邊緣反卷；側脈每邊5~11條；葉柄長0.4~1.4公分；托葉線狀披針形，長約0.3公分，被黃色柔毛。 **Foliage (Leaves):** The leaves are **alternate** and sub-coriaceous (nearly leathery) in texture. The leaf blade is **elliptic or oblong**, measuring 5 - 25 cm in length and 1.5 - 7.5 cm in width. The apex is **acuminate or caudate-acuminate** (tapering to a long tail), while the base is obtuse. The surfaces are **glabrous (hairless)** or only sparsely puberulent (finely hairy) on the underside. The leaf **margins are revolute** (curled slightly downward). There are **5 - 11 pairs of lateral veins**. The petiole is 0.4 - 1.4 cm long. The **stipules are linear-lanceolate**, approximately 0.3 cm long, and covered with **yellowish soft hairs**.

• 花 :

花雌雄同序，密集成腋生的團繖花序；除萼片及花瓣被黃色柔毛外，其餘無毛；雄花：雄蕊5枚，直徑0.3~0.4公分，花梗極短；萼片三角形，長約0.2公分，寬0.1公分；花瓣6，匙形，長約為萼片的1/3；花絲基部合生，上部平展；花盤淺杯狀；退化雌蕊卵狀錐形；雌花：直徑0.4~0.5公分，花梗長約0.1公分；萼片與雄花的相同；花瓣菱狀圓形，長約為萼片之半；花盤壇狀，全包子房，後期由於子房膨大而撕裂；子房卵圓形，花柱2，分離，長約0.15公分，頂端2裂，裂片線形。花期3~8月。 **Inflorescence and Flowers:** The flowers are

monoecious (male and female on the same plant), arranged in dense, **axillary glomerules** (clustered head-like inflorescences). Aside from the sepals and petals, which are covered in **yellowish soft hairs (pubescence)**, the rest of the floral parts are glabrous. **Flowering occurs from March to August.**

- **Male Flowers:** Measuring 0.3 – 0.4 cm in diameter with extremely short pedicels. There are **5 stamens**; the **filaments are connate (fused) at the base** and spreading at the top. The **sepals are triangular**, approx. 0.2 cm long. The **6 petals are spatulate (spoon-shaped)**, about 1/3 the length of the sepals. A **shallow cup-shaped disc** is present, along with an ovate-conical **pistillode** (sterile, reduced ovary).
- **Female Flowers:** Slightly larger, 0.4 – 0.5 cm in diameter with pedicels approx. 0.1 cm long. The sepals are identical to the male flowers. The **petals are rhombic-circular**, about half the length of the sepals. The **disc is urceolate (urn-shaped)**, initially enclosing the entire ovary but eventually tearing as the ovary expands. The **ovary is ovoid**, featuring **2 separate styles**, each about 0.15 cm long and **bifid (2-lobed)** at the apex with linear lobes.

• 果實：


核果長卵形，直徑約1 公分，寬 0.7~0.8 公分，成熟時紫黑色，1 室。果期9~11 月。 **Fruit (Drupes):** The fruit is an **oblong drupe** (stone fruit), measuring approximately **1 cm in length** and 0.7 – 0.8 cm in width. It is **1-celled** (single-chambered). At maturity, the fruit turns a **deep purplish-black**. **Fruiting occurs from September to November.**

• 特性：

常綠小喬木。幹基有刺狀突起，莖則散生小刺。葉互生，橢圓或長橢圓狀披針形，長 8~13 公分，葉寬 4~6 公分，先端漸尖。花簇生，細小較不引人注目，淡綠色，花瓣 6，雄蕊 5。核果卵形，熟時呈暗紅色或紫黑色，長 0.9~1.1 公分，寬 0.7~0.8 公分。是亞熱帶闊葉林內常見的樹種，但是長相平淡無奇而鮮少有人注意它。分布於全島山麓，八卦山區分布普遍。后里鄉毘盧寺步道旁、泰安如光山、神秘洞常見樹種。花期 3~5 月。果期 5~6 月。

Characteristics Summary: Tomentose Bridelia (刺杜密)

- **Growth Habit & Trunk:** An **evergreen small tree**. The base of the trunk features **thorn-like protrusions**, and the stems are scattered with smaller prickles.
- **Foliage:** Leaves are **alternate**, elliptic or oblong-lanceolate, 8 – 13 cm long and 4 – 6 cm wide, with an **acuminate (tapering) apex**.
- **Flowers:** The flowers are clustered, **tiny and inconspicuous**, pale green in color. They consist of **6 petals and 5 stamens**. **Flowering occurs from March to May.**

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- **Fruit:** The **drupes are ovoid**, turning **dark red or purplish-black** when ripe. They measure 0.9 – 1.1 cm in length and 0.7 – 0.8 cm in width. **Fruiting occurs from May to June.**
 - **Habitat & Distribution:** A common species within **subtropical broad-leaved forests**, though often overlooked due to its plain appearance. It is distributed across the foothills of the entire island, with high prevalence in the **Baguashan (Bagua Mountain)** region. It is also frequently seen along the Pilu Temple Trail in Houli, the Ruguang Mountain in Taian, and near the Mysterious Caves (Shenmi Dong).