

• 中文名稱：血藤

• 英文名稱：Rusty-leaf Muuna , Large-fruit Mucuna

• 學名：*Mucuna macrocarpa*Wall.

• 科名：豆科(Fabaceae)血藤屬(Mucuna)

• 別名：血藤、青山龍(臺灣植物誌) **Flora of Taiwan:** *Mucuna macrocarpa* , 大血藤 Big Blood Vine、烏血藤 Black Blood Vine、串天癩 Chuan-Tian-Huang、人骨丹 Bone-Penetrating Elixir , 青山龍藤 Qing-Shan-Long Vine、大果禾雀花/大果油麻藤 *Mucuna birdwoodiana* , 長莢油麻藤 Long-podded *Mucuna* , 海涼蠶(傣族語hai liang long) ; Kanahoe(泰雅) ; Karidatu(排灣)

• 原產地：中國大陸南方、台灣、馬來西亞、琉球和印度。Distributed across Southern Mainland China, Taiwan, Malaysia, the Ryukyu Islands, and India.

• 分布：中低海拔山區溼生空曠處、林緣及溪邊。Found in moist, open areas, forest edges, and along stream banks in low-to-middle altitude mountains.

1. 1.綠化綠廊用：常綠、覆蓋面積廣，是優良綠廊爬藤植物。2.全草可作飼料，莖可入藥，其毛具刺激性。3.藥用：性味：藤莖：苦、澀、微溫。效用：藤莖：舒筋活絡，補血活血，清肺潤燥，調經。治風濕關節痛，小兒麻痺後遺症，月經不調，貧血，肺熱燥咳，咳血，腰膝酸痛，風濕痺痛，手足麻木，癱瘓。1.**Greening and Arbor Uses:** As an **evergreen** with a vast coverage area, it is an excellent climbing plant for **green corridors**, pergolas, and ecological restoration.

2. **Fodder and Industrial Use:** The entire plant can be used as **animal fodder**. The stems are used medicinally, though the **hairs (trichomes)** on the pods or young parts can be **irritating to the skin**.

• 用途：

3. **Medicinal Uses:**

○ **Properties and Flavor (Xingwei):**

▪ **Vine Stem:** Bitter, astringent, and slightly warm.

○ **Functions & Indications:**

▪ **Vine Stem:** Relaxes tendons and activates collaterals (**Shujin Huoluo**), tonifies and invigorates the blood, clears the lungs, and moistens dryness. It is used to regulate menstruation and treat **rheumatic joint pain**, sequelae of poliomyelitis, irregular

menstruation, anemia, lung-heat dry cough, hemoptysis (coughing up blood), and soreness of the lower back and knees. It also addresses **numbness of limbs and paralysis**.

• 莖：

莖具攀緣性，莖蔓延長達 20 公尺以上，木質，多分枝；莖具縱稜脊和褐色皮孔，被伏貼灰白色或紅褐色細毛，尤以節上為密，老莖常光禿無毛，小枝具鐵鏽色毛茸，莖汁紅色。

The stem is climbing and scandent, with vines extending over 20 meters in length. It is woody and highly branched. The stems feature longitudinal ridges and brown lenticels, covered with appressed grayish-white or reddish-brown fine hairs, which are particularly dense at the nodes. Older stems often become glabrous (smooth and hairless), while young branchlets are clad in ferruginous (rust-colored) pubescence. The sap of the stem is distinctively red.

• 葉：

羽狀複葉具 3 小葉，葉長 25~33 公分；托葉脫落；葉柄長 8~13(~15) 公分，互生；葉軸長 2~4.5 公分，小葉紙質或革質，頂生小葉橢圓形、卵狀橢圓形、卵形或稍倒卵形，長 10~19 公分，寬 5~10 公分，先端急尖或圓，具短尖頭，很少微缺，基部圓或稍微楔形；側生小葉極偏斜，長 10.5~17 公分；上面無毛或被灰白色或帶紅色伏貼短毛，在脈上和嫩葉上常較密；側脈每邊 5~6；小托葉長 0.5 公分。The leaves are pinnately 3-foliolate (trifoliate), measuring 25 – 33 cm in total length. Stipules are caducous (falling off early). The petioles are 8 – 13 (up to 15) cm long and arranged alternately. The rachis is 2 – 4.5 cm long. Leaflets are papery or coriaceous (leathery). The terminal leaflet is elliptic, ovate-elliptic, ovate, or slightly obovate, measuring 10 – 19 cm long and 5 – 10 cm wide, with an acute or rounded apex featuring a short mucro (sharp point), rarely emarginate; the base is rounded or slightly cuneate. The lateral leaflets are strongly oblique (asymmetrical), measuring 10.5 – 17 cm long. The upper surface is glabrous or covered with grayish-white or reddish appressed short hairs, which are denser on the veins and young leaves. There are 5 – 6 pairs of lateral veins. Stipels are approximately 0.5 cm long.

• 花：

總狀花序，花序通常生在老莖上，長 5~23 公分，有 5~12 節；花多聚生於頂部，每節有 2~3 花，常有惡臭；花梗長 0.8~1.0 公分，密被伏貼的淡褐色或深褐色短毛和稀疏深褐色或紅褐色細剛毛；苞片和小苞片脫落；花萼密被伏貼的深褐色或淡褐色短毛和灰白或紅褐色脫落的剛毛，花萼寬杯形，長 0.8~1.2 公分，寬 1.2~2.0 公分，2 側齒長 0.3~0.4 公分，最下齒長 0.5~0.6 公分；花冠暗紫色，但旗瓣帶綠白色，旗瓣長 3~3.5 公分，先端圓，基部的耳很小，長約 0.1 公分，翼瓣長 4~5.2 公分，寬 1.5~1.7 公分，瓣柄長 0.5~0.7 公分，耳長 0.3~0.5 公分，龍骨瓣長 5~6.3 公分，瓣柄長 0.8~1.0 公分，耳長 0.1~0.3 公分；雄蕊管長 4.5~5.5 公分。花期 4~5 月。**Inflorescence and Flowers:** The **racemes** are typically **cauliflorous**

(borne on old woody stems), measuring 5 – 23 cm long with 5 – 12 nodes. Flowers are mostly clustered at the apex, with 2 – 3 flowers per node, often emitting a **distinctive malodorous scent**. The pedicels are 0.8 – 1.0 cm long, densely covered with appressed light or dark brown short hairs and sparse, dark brown or reddish-brown fine bristles. Bracts and bracteoles are caducous.

The **calyx** is broadly cup-shaped, 0.8 – 1.2 cm long and 1.2 – 2.0 cm wide, densely covered with appressed brown hairs and deciduous grayish-white or reddish-brown bristles. The lateral teeth are 0.3 – 0.4 cm long, while the lowest tooth is 0.5 – 0.6 cm long.

The **corolla is dark purple**, though the **standard petal (vexillum)** is tinged with **greenish-white**. The standard is 3 – 3.5 cm long with a rounded apex and minute basal auricles (approx. 0.1 cm). **Wings** are 4 – 5.2 cm long and 1.5 – 1.7 cm wide, with a 0.5 – 0.7 cm claw and 0.3 – 0.5 cm auricles. The **keel** is 5 – 6.3 cm long, with a 0.8 – 1.0 cm claw and 0.1 – 0.3 cm auricles. The **staminal tube** measures 4.5 – 5.5 cm in length. **Flowering Season:** April to May.

莢果劍形，扁平，果木質，長 26~45 公分，寬 3~5 公分，厚 0.7~1.0 公分，近念珠狀，直或稍微彎曲，密被直立紅褐色細短毛，部分近於毛，具不規則的脊和皺紋，具 6~2 顆種子，內部隔膜木質，厚 0.1~0.5 公分，邊緣加厚，無溝槽，與邊緣相平行處常具不規則木質脊，但沿背腹縫線邊緣無圓形的堅硬凸起；種子黑色，盤狀，但稍不對稱，兩面平，長 2.2~3 公分，寬 1.8~2.8 公分，厚 0.5~1.0 公分，種臍圍繞種子周圍的 3/4 或更多，暗褐色或黑色。果期 6~7 月。 **Legumes and Seeds:** The **legume is ensiform (sword-shaped)** and flattened, with a **woody texture**, measuring 26 – 45 cm in length, 3 – 5 cm in width, and 0.7 – 1.0 cm in thickness. It is **sub-moniliform (bead-like)**, either straight or slightly curved, and densely covered with erect, reddish-brown short hairs, though some parts may be nearly glabrous. The pod surface features irregular ridges and wrinkles.

• 果：

Each pod contains **6 to 12 seeds**, separated by woody internal septa (partitions) 0.1 – 0.5 cm thick. The margins are thickened and lack grooves; irregular woody ridges often run parallel to the edges, but there are no rounded hard protrusions along the dorsal or ventral sutures.

The **seeds are black and discoid (plate-like)**, though slightly asymmetrical and flat on both sides. They measure 2.2 – 3.0 cm in length, 1.8 – 2.8 cm in width, and 0.5 – 1.0 cm in thickness. The **hilum (seed scar)** is dark brown or black and **encircles 3/4 or more of the seed's circumference**. **Fruiting Season:** June to July.

• 特徵：

血藤為豆科血藤屬常綠蔓性木質大藤本植物。莖具攀緣性，莖蔓延長達 20 公尺以上，木

質，多分枝，小枝具鐵鏽色毛茸，莖汁紅色。葉為三出複葉，頂小葉長橢圓形，長 12~15 公分，寬 6~7 公分，葉背被褐色絨毛，葉尖鈍形，尾狀突尖或微凹，葉基楔形或鈍形，全緣，葉柄被褐色柔毛，互生，側生小葉卵形或卵狀長橢圓形，較小。深紫色蝶形花萌發於葉腋，花大形，花軸被銹色柔毛，花萼寬鐘形，5 齒裂，外被銹色柔毛，旗瓣近圓形，總狀花序。莢果劍形，扁平，長 40 公分左右，寬 3 公分，種子間呈緊縮狀，密被褐色刺毛。

Botanical Summary: Large-fruited Mucuna (Blood Vine)

Growth Habit and Stems: An evergreen, scandent, woody giant vine belonging to the Fabaceae (Legume) family. The stems are climbing and can extend **over 20 meters** in length. They are woody and highly branched; young branchlets are covered in **ferruginous (rust-colored) pubescence**. A signature characteristic is the **blood-red sap** that exudes when the stem is cut.

Foliage (Leaves): Leaves are **pinnately trifoliolate (3-leaflets)** and arranged alternately. The **terminal leaflet** is oblong, 12 – 15 cm long and 6 – 7 cm wide, with a brown-tomentose underside. The apex is obtuse, caudate-mucronate (tail-like point), or slightly emarginate, with a cuneate or obtuse base and entire margins. The **lateral leaflets** are smaller and ovate or ovate-oblong. Petioles are covered in brown soft hairs.

Inflorescence and Flowers: The **dark purple papilionaceous (butterfly-shaped) flowers** emerge from leaf axils in **racemes**. The flowers are large, with a flower axis covered in rust-colored pubescence. The **calyx is broadly bell-shaped (campanulate)** with 5 lobes and a rust-colored hairy exterior. The **standard petal** is nearly circular.

Fruit (Legumes): The legumes are **ensiform (sword-shaped)** and flattened, measuring approximately **40 cm in length** and 3 cm in width. The pod is **constricted between seeds** (sub-moniliform) and densely covered with **brown irritating bristles (stinging hairs)**.