

• 中文名稱：鞭葉耳蕨

• 英文名稱：Scale-stem Cyrtomidictyum

• 學名：
Polystichumlepidocaulon(Hook.) J. Sm.
*Aspidiumlepidocaulon*Hook.
Cyrtomidictyumlepidocaulon(Hook.) Ching 鞭葉蕨（中國主要植物圖說）
*Polystichumlepidocaulon*var. *appendiculatum*Nakai

• 科名：鱗毛蕨科(Dryopteridaceae)耳蕨屬(Polystichum)

• 別名：鞭葉耳蕨，鞭葉蕨 Walking Fern

• 原產地：中國江蘇南部、安徽南部、浙江、江西、福建、湖南和廣西，韓國，日本及台灣。Native Origin (原產地):

- East Asia (東亞廣泛分佈): * China: Southern Jiangsu, Southern Anhui, Zhejiang, Jiangxi, Fujian, Hunan, and Guangxi.
 - Korea & Japan: Commonly found in temperate to subtropical forests.
 - Taiwan: A native species.

• 分佈：在台灣產於中海拔地區。Distribution in Taiwan (在台灣的分佈):

- Altitude: Specifically found in mid-altitude regions (typically between 1,000 to 2,500 meters).
- Habitat: Prefers the shaded, humid understory of broadleaf forests or coniferous-broadleaf mixed forests.

• 用途：中海拔地區地被植物。Primary Use (主要用途):

- Groundcover Plant for Mid-altitude Regions (中海拔地區地被植物):
 - It serves as a natural groundcover, effectively carpeting the forest floor in temperate to montane environments.

• 莖：根莖短，直立或斜生，密被鱗片，鱗片闊卵形，叢生。Rhizome & Stems (莖部)

- Form: Rhizomes are short, either erect or ascending (growing diagonally).
- Scales: Densely covered in broad-ovate scales, appearing in clusters at the base.

一回羽狀複葉；葉柄長 15~25 公分，柄及葉軸密被闊卵形鱗片；葉片長 20~30 公分，寬 5~10 公分，長橢圓形，皮紙質，羽片長 3.6~6 公分，寬 0.7~1 公分，鑷狀長披針形，下表面被小鱗片；營養葉中軸延長成鞭狀，先端發芽，可行無性繁殖，被兩型褐色薄膜質鱗片，大鱗片分布較廣，小鱗片著生在中軸上，三角形或披針形，邊緣具纖毛；孢子葉與營養葉同大小或較小，橢圓形或披針形，頂端漸尖，羽片鑷狀披針形。**Foliage (葉)**

• 葉：

- **Type:** 1-pinnate (once-pinnate) compound leaves.
- **Petiole (Stipe):** 15 – 25 cm long; both the stipe and the **rachis (leaf axis)** are densely covered in broad-ovate scales.
- **Blade:** Oblong in shape, 20 – 30 cm long and 5 – 10 cm wide; texture is **chartaceous** (papery/leathery).
- **Pinnae (Leaflets):** 3.6 – 6 cm long, 0.7 – 1 cm wide; **falcate-lanceolate** (sickle-shaped) with small scales on the underside.
- **Reproductive Strategy (The "Walking" Mechanism):**
 - **Sterile Fronds (營養葉):** The rachis extends into a long, **whip-like (flagelliform)** tail. The tip of this "whip" can sprout a **viviparous bud**, allowing for **asexual reproduction** upon contact with the ground.
 - **Scales on Rachis:** Covered in two types of brown, membranous scales. Large scales are widely distributed, while smaller, ciliate (fringed) scales are concentrated on the axis.
- **Fertile Fronds (孢子葉):** Similar in size or slightly smaller than sterile fronds; elliptic or lanceolate with an acuminate tip.

• 花：

孢子囊堆圓形著生在葉脈上，沿中肋有 1~3 行；孢膜很小，早落。**Sori & Sporangia (孢子與果實)**

• 果實：

- **Sori (孢子囊堆):** Circular, borne on the veins. Arranged in **1 to 3 rows** along the midrib of the pinnae.
- **Indusium (孢膜):** Very small and **deciduous** (falls off early).

• 特性：

地上生，莖短直立或斜昇，密被寬卵形鱗片。葉叢生；葉柄長 15~25 公分，被寬卵形鱗

片；葉片披針形，一回羽狀複葉，長 $20\text{--}30$ 公分，寬 $5\text{--}7$ 公分，軟革質；羽片長 $10\text{--}15$ 公分，寬 $2\text{--}3$ 公分，鑷形，背面具鱗片；部分葉片之葉軸延長成鞭狀，末端具不定芽，可長出新株；葉脈游離。孢膜圓形，盾狀著生在葉脈上，早凋。**Key Characteristics: Walking Fern (鞭葉耳蕨的特性)**

1. Growth Habit & Rhizome (生長形態與根莖)

- **Habit:** Terrestrial (地上生).
- **Rhizome:** Short, erect, or ascending (斜昇); densely covered with **broad-ovate scales**.

2. Foliage & The "Walking" Strategy (葉部與步行機制)

- **Fronds:** Clustered (叢生); stipe (petiole) is 12 – 25 cm long, also covered in scales.
- **Blade:** Lanceolate, **once-pinnate** (一回羽狀複葉); 20 – 30 cm long and 5 – 7 cm wide.
- **Texture:** Soft-coriaceous (軟革質), giving the leaves a flexible yet durable feel.
- **Pinnae:** Falcate (鑷形/鑷刀狀), 3 – 7 cm long; the underside is scaly.
- **Asexual Reproduction:** Some fronds have an extended, **whip-like rachis (leaf axis)**. The tip features an **adventitious bud (不定芽)**, which can root and grow into a new plant upon contact with the soil.
- **Venation:** Free veins (游離脈); the veins do not interconnect to form a net.

3. Sori & Spores (孢子囊群)

- **Indusium (孢膜):** Circular and **peltate (盾狀著生)**, attached to the veins.
- **Persistence:** Caducous / Fugacious (早凋); the protective membrane falls off early as the spores mature.