

 科屬及分布
Family and Distribution

Dianthus chinensis, commonly known as Dianthus, Rainbow Pink, China Pink, Chinese Pink or Indian Pink, is a herbaceous perennial, though it is usually grown as an annual herb. The plant belongs to the genus *Dianthus* in the family Caryophyllaceae. Native to China, *Dianthus* is now available in a diverse range of cultivars with flowers in different colours, and also in varieties with multiple layers of petals. It is widely grown as ornamentals around the world.



形態及特徵

Form and Characteristics



Dianthus stands 10 to 20 cm in height with upright, slender, smooth and branched stem. The leaves are opposite, linear-lanceolate, glabrous with entire margins, connate at base and stem-clasping. The fragrant flowers with five petals are either terminal or in clusters of paniculate cymes or inflorescences. Having single or double petals with irregularly lobed margins, the single or bi-coloured flowers are in a wide variety of striking hues including red, pink, magenta and white. The flowering period lasts from October to April of the following year. Small black seeds can be found in the cylindrical capsule.

繁殖 Propagation

石竹可用播種、扦插和分株等方式繁殖。播種須在秋季進行，播種溫度為18℃至22℃。把種子撒播在鬆黑濕潤的土壤上，播種後要以薄土覆蓋。發芽溫度為21℃至22℃。播種後需保持濕潤，一般種子會發芽，有初期開花避免過度澆水，以幼苗的供水。幼苗於播前，須先除雜草。待幼苗長至約5厘米長或出4至6片葉片後，可移植到盆中。定植後應保持充足日照。在植株生長期間，每月施加含小量氮、磷、鉀之平衡肥料一次。於定植後植株可每隔4~7天，以增加施肥量至數日。於移植後1個月內每週澆水11次，定植後45天應澆水，觀察植株生長。

石竹可用播種、扦插和分株等方式繁殖。播種須在秋季進行，播種溫度為18℃至22℃。把種子撒播在疏鬆濕潤的土壤上，播種後要以薄土覆蓋。發芽溫度21℃至22℃。播種後應保持濕潤，約一週後種子就會發芽。育苗期間應避免過度澆水，以免幼苗倒伏。如幼苗過於稠密，須及時疏苗。待幼苗長到約5厘米或長出2至6片真葉時，可移種到定植穴。定植應確保充足日照。在植株生長期間，每月應配合含氮、磷、鉀三種元素的肥料一次。幼苗定植成株後可摘心一次，以增加分枝及花數目。從播種到成苗約需9至11周，定植約45天後開花。開花期間每月應用養葉肥澆料一次，可使花開得更茂盛。

Seedlings can be propagated by air-layers, such as seedling, cutting and plant division. For seed propagation, seeds should be sown for cultivation in autumn at an optimum temperature of 18°C to 22°C. Seeds can be scattered onto moist mist and soil, and they should be covered with a thin layer of soil. The optimum temperature for germination is between 21°C and 22°C. After sowing, keep the soil moist with watering. Germination takes place in about 1 week, during which overwatering should be avoided to prevent the seedlings from drowning. If the seedlings are too crowded, remove the weaker ones. The seedlings are ready for planting as soon as they grow to about 5 cm tall or when 4 to 6 pieces of leaves have developed. After establishment, sufficient sunlight should be maintained. Fertiliser containing any amount of the essential elements of nitrogen, phosphorus and potassium should be applied every month during the growth period. During the growing up period, the seedlings should be established in growing beds. The seedlings are established in growing beds after 1 to 2 weeks for seeds to be sown directly. Dandelion generally flowers approximately 45 days after sowing. During the flowering period, apply fertiliser containing the above three essential elements every month for more vigorous blooming.

Apert from seed sowing, cutting and plant division can also be employed to propagate Dianthus. Cutting can be carried out from late autumn to the spring of the following year. The rooting medium should preferably be well-aerated, properly drained and clean sandy soil. Select healthy and mainly branches at the middle of the mother stem as cuttings, each of which should be 5 to 8 cm long with at least 3 to 4 nodes and ideally short internodes. Strip all the leaves 2 to 4 cmers and insert the bottom one-third to half of the cuttings into the medium. Water the cuttings thoroughly. Then leave the cuttings in a partially shaded place at a temperature above 18°C for several days. When the branches are under shelter, they can be moved to a bright place with a temperature of 18 to 20°C and develop in about 2 weeks. Cutting with vigorous root development can be transplanted for establishment. For plant division, usually old plants that have blossomed are used. First of all, detach the parent plant from its pot and remove the soil. Then find the filers (also known as suckers) and cut the suckers with roots from the parent plant and separate the new divisions into pots promptly.

Dianthus is susceptible to many pests and diseases, particularly the latter, including damping off, leaf spot and rust, etc. For the prevention of diseases, healthy shoots should be selected for propagation by cutting. Infected seedlings must be removed once found and sprayed with disinfectant for soil sterilization. The pests affecting the plant are mainly red spider mites, aphids and armyworms, etc. The best prevention is to place the plant in an environment with abundant sunlight, good ventilation and proper drainage. Water and fertilise moderately to encourage healthy plant growth.

Horticultural Application

石竹花色艷麗多變，形態優美，耐寒及花期長，深受惜花者喜愛。經常用於園林造景和花壇布置等，亦適合以盆栽種在陽台或窗邊觀賞。

Dianthus is well cherished by flower lovers for its variety of bright colours, elegant form, tolerance against cold weather and long flowering period. It is often used in landscape and floral bedding displays, etc. It is also suitable to be planted in container pots on the balcony or window side for appreciation.

	春 Spring	夏 Summer	秋 Autumn	冬 Winter
日				

圖例 Key

中等 Medium

種子 Seeds

幼苗 Seedlings

定植 Potting Up

結蕾 Bud Formation

開花 Blooming

matter or slow-release chemical fertilisers may be added to the potting mix as a base fertiliser to support plant growth.

Remove the seedlings from the germination tray with a small shovel. Do not damage the roots of the seedlings.

步驟三 Step three:

用小錫子在花盆中央挖一個洞，其闊度和深度應與幼苗根部泥鰕大小相若。把幼苗置於洞中，蓋上培養土，並輕輕壓平，讓培養土與泥鰕接觸。切勿壓斷幼苗根部。移盆後切記馬上澆水，同時亦可摘心，促使幼苗萌發側芽，多長花蕾。

potting mix gently until it comes into contact with the root ball. Do not crush the roots of the seedling. Remember to water the plant immediately after transplanting. Pinch the growing tips as necessary to promote the development of lateral buds and flowers.

步驟四 Step four :

把移植後的幼苗置於半陰處，避免陽光直射。其後幼苗必須每天接受6至8小時日照，以促進生長和開花。花盆表土乾時便應澆水。

Place the transplanted seedlings in a semi-shaded area and avoid direct sunlight. Thereafter, the seedlings should be exposed to sunlight for 6 to 8 hours a day to encourage growth and flowering. Water them when the soil surface begins to dry out.