



Process of plant propagation and their types

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Received: 27-Mar-2023, Manuscript No. AAPBH-23-93045; **Editor assigned:** 29-Mar-2023, PreQC No. AAPBH-23-93045 (PQ); **Reviewed:** 12-Apr-2023, QC No. AAPBH-23-93045; **Revised:** 29-May-2023, Manuscript No. AAPBH-23-93045 (R); **Published:** 05-Jun-2023, DOI: 10.51268/2736-1802.23.11.100.

COMMENTARY

Plant propagation is the process of growing new plants from older ones. It is a vital part of gardening and agriculture, as it allows growers to produce more plants without having to purchase them from outside sources. Propagation also ensures that genetic diversity is preserved and that rare or hard to find plant varieties are preserved for future generations. In this article, we will explore the various techniques of plant propagation and their benefits. Asexual and sexual reproduction is two main types of plant propagation. Sexual propagation involves the use of seeds, while asexual propagation uses vegetative parts of the plant, such as stems, leaves, and roots.

Sexual propagation

Sexual propagation involves the use of seeds to grow new plants. Seeds can be collected from mature plants or purchased from a seed supplier. They can be sown directly into the soil or started indoors and transplanted outside once they have sprouted. Some of the most common types of plants propagated by seed include annuals, perennials, vegetables, and trees. One of the benefits of sexual propagation is that it allows for genetic variation, which can lead to stronger, more adaptable plants. However, it can also be a slower process, as plants grown from seed may take several years to mature and produce flowers or fruit.

Asexual propagation

Asexual propagation involves the use of vegetative parts of the plant to create new plants. This method is faster than sexual propagation, as it does not require the time needed for seeds to germinate and grow. Additionally, it allows growers to create new plants that are identical to the parent plant,

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preserving desirable traits such as flower colour, fruit size, and disease resistance.

Stem cuttings: This involves taking a section of stem from a mature plant and rooting it in soil or water. Once roots have formed, the cutting can be transplanted to a larger container or outside.

Leaf cuttings: This method is similar to stem cuttings, but instead of using a section of stem, a leaf is taken from the parent plant and rooted in soil or water.

Division: This involves separating a mature plant into smaller sections, each with its own root system. This method works well for plants such as hosts and ornamental grasses.

Layering: This involves bending a low lying branch of a plant to the ground and covering it with soil. Over time, the branch will produce roots, and a new plant will form. This method works well for plants such as raspberries and strawberries.

Grafting: This involves joining a stem or branch from one plant to the root system of another. This method is often used for fruit trees, as it allows growers to combine desirable traits from two different varieties.

CONCLUSION

In conclusion, plant propagation is an essential skill for gardeners and agriculturalists. Whether using sexual or asexual propagation methods, growers can produce more plants, preserve desirable traits, and maintain genetic diversity. With a basic understanding of the various techniques of plant propagation, anyone can grow their own plants and contribute to the health and beauty of the environment.