

Chose the pea plant to begin the experiment to test how the variety occurs in the plant

Obtain batches of pea plants that have been self-pollinating for many generations

These batches are called P (parental) generation and are said to be true-breeding

Take two contrasting varieties of pea plants from the P generation

Cross-pollinate the two contrasting pea plants by taking the stamen from one plant and placing it on the carpel of the other plant

Allow the cross-pollinated pea plants to produce seeds and plant them

Plants grown from the first cross are called the F1 (filial) generation

Results were 100% of only one of the contrasting traits

Allow the F1 generation plants to self-pollinate

The next generation is called the F2 (filial) generation

Results were 75% one trait and 25% of the other contrasting trait