

The application of cell and tissue culture techniques in horticulture

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Application of plant cell and tissue culture methods in the disinfected liquid or solid nutritional environments are very vast and are used for study many biological processes.

Production of haploid plants and changing them into diploid plants, provides possibilities of obtaining hundred percent pure lines in a very short time and reduce the time and cost of plant breeding projects. In this way new crop cultivars will be produced faster. By using the tissue culture method, the selection of resistant plants to salinity and other unfavourable environmental factors such as cold and etc in the short period will be possible. This method also can be used for producing healthy plants and establishing plant gene banks.