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(incompatibility). Moreover, since most of the adapted cultivars lack only one or a few characters, transferring the gene of interest can enhance the efficiency of the cultivar and preserve its original identity.

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Plant Transformation Techniques. Genetic transformation is a change in a cell through which the insertion then integration of the introduced DNA into the host genome happens and the DNA becomes a permanent addition to the genome. Numerous physical or

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biological plant transformation techniques for the production of transgenic plants with different efficiencies, applications, and limitations have been developed.

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Molecular genetic studies with *Arabidopsis* have already identified many gene functions in plants.

Molecular genetics relies on sexual crosses mutagenesis and genetic transformation to identify genes.

*Arabidopsis* transformation relies on *Agrobacterium*

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-mediated gene insertion of plant except that there is no tissue culture step.

## **Genetic Selection, Genetic Transformation**

This type of plant transformation is used for the longer-term research of genes, and for long-term production of a trait/compound in large scale. Plant transformation involves 2 stages: Delivery of the DNA into a single cell, and regeneration into full fertile plants.

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plants using a number of different methods.

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Spontaneous regeneration of transformed cells can produce natural transformants carrying cellular T-DNA (cT-DNA) sequences of bacterial origin. This particular type of horizontal gene transfer (HGT) could play a role in plant evolution.

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Genetic Transformation – Biolistics. Fredy Altpeter.



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In molecular biology and genetics, transformation is the genetic alteration of a cell resulting from the direct uptake and incorporation of exogenous genetic material from its surroundings through the cell membrane. For transformation to take

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place, the recipient bacterium must be in a state of competence, which might occur in nature as a time-limited response to environmental conditions such as starvation and cell density, and may also be induced in a laboratory. Transformation is one of three

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