

<b>Transformation method</b>	<b>Properties</b>	<b>References</b>
<i>Agrobacterium</i> -mediated gene transfer	Ti-plasmid containing T-DNA is used in the transfer of the DNA segment	Slater <i>et al.</i> , 2009
Non- <i>Agrobacterium</i> mediated gene transfer	Microbes containing plasmid of order <i>Rhizobiales</i> are used	Mullins, 2018
Viral method of gene transfer	Integration of gene into the viral genome	Fiandaca and Federoff, 2014, Patel and Misra, 2011
Gene gun	Microcarrier coated with DNA is directly delivered into target under high pressure	Rajasekaran, 2013
Electroporation	Electrical charges are used to make pores in the membrane that helps in the entry of DNA	Young and Dean, 2015
Microinjection	Micropipette loaded with aqueous DNA deliver the target genes to nucleus or cytoplasm	Saito, 2005
Sonoporation	Ultrasound waves play a role in gene delivery	Akowuah <i>et al.</i> , 2005; Cochran and Wheatley, 2013
Hydro-dynamic gene transfer	Gene delivery is by the hydrostatic pressure	Jinturkar, Rathi and Misra, 2011; Weiwei Wang, 2013
Polyethylene glycol (PEG)-induced DNA uptake	Polyether compound PEG adhere to DNA and transport it into a target	Sahab, Hayden, Mason and Spangenberg, 2019
Liposome-mediated gene delivery	Cationic liposome deliver DNA into the host cell	Kulkarni, Greiser, O'Brien and Pandit, 2010
Fibre mediated gene delivery	Silicon carbide fiber facilitated the transfer	Simon and Foroughi-Wehr, 2000

# Chapter 3 Gene Transfer Methods Rd Springer

**Tobias Bleicker**



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