2.16.6 Applications of cell and tissue culture

Clonal propagation

In nature, the methods of plant propagation may be either asexual (by multiplication of vegetative parts) or sexual reproduction of genetically identical copies of a cultivar by asexual reproduction. In nature, the methods of plant propagation may be either asexual (2).

(through generation of seeds). Multiplication of genetically identical copies of a cultivar by asexual reproduction derived from a single individual by asexual reproduction constitutes as (through generation of seeds). Multiplication or generically identification of seeds in the seeds of the see called *clonal propagation*. A population derived from a single Clonal propagation. It involves in vitro propagation through tissue culture is popularly known as micropropagation. It involves in vitro propagation the field or a green house. Use of tissue Clonal propagation through tissue culture is popularly with the field or a green house. Use of tissue culture of selected genotype and the ultimate establishment of the plant in the field or a green house. Use of tissue culture is popularly with the field or a green house. Use of tissue culture to the plant in the field or a green house. Use of tissue culture to the plant in the field or a green house. Use of tissue culture to the plant in the field or a green house. Use of tissue culture to the plant in the field or a green house. Use of tissue culture to the plant in the field or a green house. Use of tissue culture to the plant in the field or a green house. Use of tissue culture to the plant in the field or a green house. Use of tissue culture to the plant in the field or a green house. Use of tissue culture to the plant in the field or a green house. Use of tissue culture to the plant in the field or a green house. Use of tissue culture to the plant in the field or a green house. Use of tissue culture to the plant in the field or a green house. Use of tissue culture to the plant in the field or a green house. Use of tissue culture to the plant in the field or a green house in the plant in the field or a green house. Use of tissue culture to the plant in the field or a green house in the plant in the field or a green house. Use of tissue culture to the plant in the field or a green house in the plant in the field or a green house in the plant in the field or a green house in the plant in the field or a green house in the plant in the field or a green house in the plant in the field or a green house in the plant in the field or a green house in the plant in the field or a green house in the plant in the field or a green house in the plant in the field or a green house in the plant in the field or a green house in the plant in the field or a green house in the plant in the field or a green house in the plant in the field or a green house in the plant in the field or a green house in the plant in the field or of selected genotype and the ultimate establishment of the form micropropagation was initiated by G. Morel (1960), who found this as the only commercially viable approach to obtained from tissue culture are called *microplants*. Microplants can be considered to the constant of the cons in three different ways:

- From pre-existing shoot buds or primordial buds (meristems) which are encouraged to grow and proliferate. Following shoot morphogenesis when new shoots are induced to form in unorganized tissues or directly upon
- Through the formation of somatic embryos (called somatic embryogenesis).

There are five stages in micropropagation:

- Preparation of explant 1.
- 2. Formation of callus
- Shoot development 3.
- Root formation
- Transfer to a glasshouse

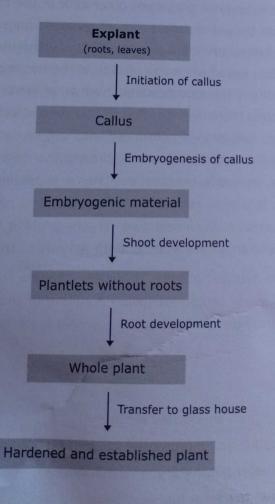


Figure 2.39 Process of micropropagation.