

CHAPTER - 11

BIOTECHNOLOGY

- PRINCIPLES AND PROCESS

Competent host:

DNA is Hydrophilic,

Divalent Cation

Microinjection

Biolistic/Gene gun method

Disarmed pathogen

Divalent cation:

Cells are incubated with rDNA in ice and transfer into 42°C (Heat shock) then place back to ice.

Microinjection:

r-DNA is directly injected into nucleus of animals.

Biolistic method:

Biolistic method is used for plants cells are bombarded with high velocity micro particles of gold or Tungsten coated with r-DNA.

Disarmed pathogen:

Infect the host and deliver gene.