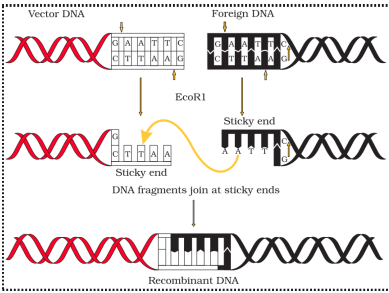
Class : 12th Biology
Chapter- 11 : Biotechnology Principles and Processes

Biotechnology Principles and Processes

Tools of rDNA Technology

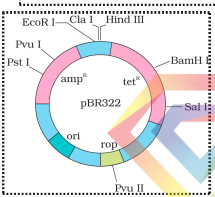


Restriction Enzymes

Competent host

Host is made competent by:

- **Biolistics** — Cell are bombarded with high velocity micro particles of gold or tungsten coated with DNA
- **Micro injection** — rDNA is directly injected into the nucleus of an animal cell
- **Disarmed pathogen vector** — Vectors like Agrobacterium when infects the cell transfer the recombinant DNA into the host

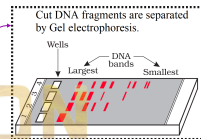


Cloning vector

Features of vector

- Has Ori
- Has Selectable Markers
- Has fewer cloning sites

It is the integration of natural science and organisms, cells, parts thereof, and molecular analogues for product and services



Cutting of DNA at specific locations by restriction enzymes

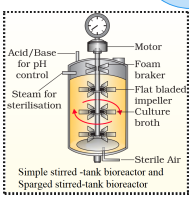
Transfer of rDNA into the Host cell

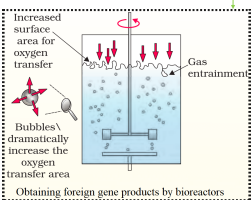
Obtaining foreign gene product by bioreactors

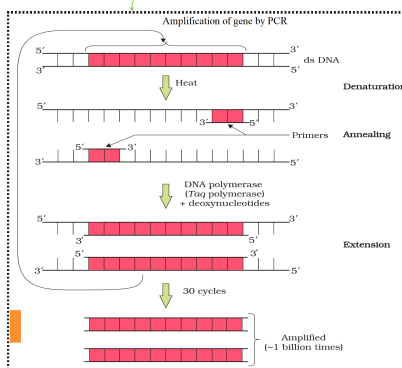
Principles of Genetic engineering

- rDNA
- Gene cloning
- Gene transfer

Processes of rDNA Technology







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