

Three Types of Cloning and the Necessity to Regulate

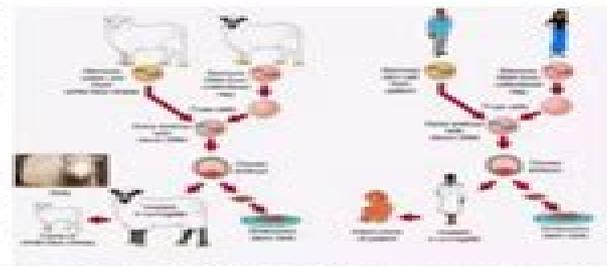
REPORTED BY: KATE JHON GIL L. MORA

DNA Cloning and Its Benefits

DNA cloning has a variety of names: molecular cloning, gene cloning, recombinant DNA technology. For the majority of this paper I will refer to it as DNA cloning. This type of cloning is mainly used to produce replicas of the same gene, in turn, allowing scientists to thoroughly study the genome.

The process goes as follows:

The gene of interest is isolated from the chromosomal DNA using restriction enzymes and then united with a plasmid that has been cut with the same restriction enzymes. When the fragmented chromosomal DNA is joined with it cloning vector in the lab, it's called a "recombinant DNA molecule." Following introduction into suitable host cells, the recombinant DNA can then be reproduced along with the host cell DNA.



By reproducing DNA replicas scientists are able to study the human genome and figure out which genes contribute to what diseases. DNA cloning has been used mostly by scientists researching genetic modification and gene therapy. This process allows scientists to identify the bad gene and replace it with a good one. It does not seem to be the case that human beings are harmed by the process of DNA cloning. Quite opposite, DNA cloning suggests a future in which society can take pre-emptive measures to ward off future maladies. However, the California Advisory Committee on Human Cloning raises the concern regarding how this developmental technology will be used. I too share this concern.

Reproductive Cloning: A Dismal Future

Reproductive cloning is the basis of most controversial debates regarding the Genetic Revolution.

Reproductive cloning goes as follows:

- a cell is removed from an organism that'll be vreplicated which is extracted by an incision in the skin,
- a female reproductive organ [cell?] is taken from the female organism,
- an entire deoxyribonucleic acid (DNA) is also removed from the donor cell,
- donor DNA is then forced into the second cell nucleus and a process known as fusion combines the two cells,
- finally a woman must be found to carry the cloned child. It all sounds so simple, yet, lurking are many unforeseen consequences.



In 1996, the first mammal ever to be cloned from adult DNA was a sheep, named Dolly. This was made possible by a Scottish Scientist named Professor Ian Wilmut. Dolly was a Dorset sheep, the life-span of that breed ranges from 11 to 12 years. Sadly, Dolly suffered from lung cancer and arthritis which lead to her early death at age 6.

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