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18/MHS07/039
Pharmacology
PHA210

Medical biotechnology is the use of living cells and cell materials to research and produce pharmaceutical and diagnostic products that help treat and prevent human diseases.
The field of medical biotechnology is experiencing rapid growth ading to the development of several innovative techniques for preventing, diagnosing, and treating diseases. Novel methodologies, including polymerase chain reaction, gene sequencing, fluorescence in situ hybridation, microarrays, cell culture, gene silencing using interference RNA, and genome editing, have significantly contributed towards improving health science, such as the sequencing of the human genome, use of stem cells for regenerative medicine, tissue engineering, development of antibiotics, and the generation of monoclonal antibodies for therapy.
Some other examples may include
In vitro fertilization
This is used in cases where a woman isn't able to give birth. So the egg and

sperm is extracted from the parents and put into the machine and the baby will develop there.

DNA fingerprinting

This is used in criminal identification,forensics or paternity test

Cancer