

# Introduction

In the last 50 years or so, there has been an blast in technological development. For example, the developments in microprocessors and materials technology has allowed the world has witnessed a greater rate of scientific development during this time than at any other time in history. on the other hand, with new abilities used to enhance the quality of life or search for answers to difficult questions, there are many moral and ethical questions which have risen and to this day are still debated. Moral means what is observed to be right and wrong in human behaviour. Ethical means the philosophy of questioning right or wrong issues.



# Cloning

Cloning is a process which produces organisms, cells or tissues that are exactly identical to each other. This process can happen naturally for example identical twins or they can be made in a lab.

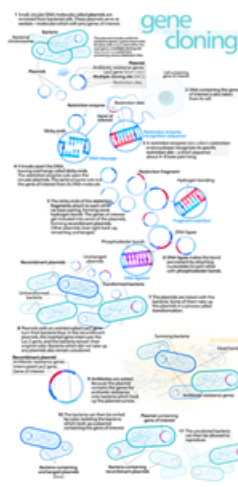
Benefits of cloning:

- Cloning helps infertile couples to have children. This is done by using a donated egg and sperm to get embryonic stem cells and then they change the genetic imprint. This is beneficial to the couple because now they would be able to have children and if cloning wasn't discovered, then infertile couples would have no children and for some couples this is the only opportunity for them to have children.
- Cloning allows there to be organ replacement. This is done by taking cells from an organ and harvesting a new functioning one. This is beneficial because there are people who need organ replacements and now with cloning discovered, this is now possible.
- Cloning is done to animals for research purposes. This is done by using genetic alteration in animals so that researches can replicate the animals needed for specific research. This is beneficial because people won't be worrying because the animals are cloned only for the purpose of research.



# Moral and Ethical Issues

- A moral and ethical issue would be that it would be difficult to identify a cloned human through its DNA. Nowadays, when a crime is committed, forensic scientists look at the DNA structure to identify who committed the crime. The cloned person's DNA will decrease the reliability of this evidence because the DNA is no longer a unique feature of that person.
- A moral and ethical issue is that Christians believe that every life is sacred and special to god. For a clone to be successful, scientists fertilise several embryos so the best one is taken and the rest are discarded. This is wrong to do because the embryos could develop into a human but they are discarded by the scientist. The scientists are playing god which is why Christians refute cloning.
- A moral and ethical issue is that even scientists and physicians believe that it would be unethical to attempt to clone humans. Mammals which have been attempted to be cloned, mostly fail and 30% of those successful are affected with large-offspring syndrome and die prematurely from illnesses. This is expected to happen in human cloning. This is wrong to do because scientists are wasting embryos on cloning when they could be used for other useful experiment such as stem cell research.



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