

Genetics

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What is Genetic Engineering?

Genetic engineering is the use of various methods to manipulate DNA of cells to produce biological products or to change hereditary traits. Genetic engineering techniques have also been used in the alteration of livestock and laboratory animals. The first animal to be cloned was a sheep named dolly. All genetically engineered products must be approved by at least one government agency such as the EPA (Environmental Protection Agency) or the FDA (Food and Drug Administration)

Since this is still a new science, there is no true way to predict potential consequences to the health and safety of humans. Though we are still early into this process we hope to learn more about genetic engineering.

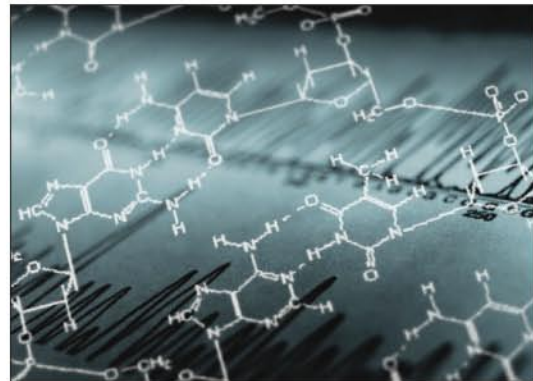
Greg Cason

Controversy of Genetic Engineering: Is It Right?

The ethical status of cloning humans has been a hotly debated issue,

touched off by the controversy over Dolly, the first cloned mammal. A large majority of people argue that cloning humans is both unnatural and unethical. Some people argue that people's individuality being impaired or ruined due to cloning technologies; aggressor nations creating armies of cloned soldiers to assault other nations; overpopulation due to sudden ease of reproduction; depletion of the human gene pool; and a number of concerns about the moral status of clones. Some people fear it will create groups of "clones" and "non-clones. Many religions also object to cloning, again by claiming that it is "playing God".

Dixie Saunders



DNA strands

Support and Opposition of Genetic Engineering

- Support

There are many pros and cons of genetic engineering. For animals, it can

mean more wool produced on sheep, better quality milk, and leaner, healthier meat. Some people even think that though it may be un-ethical to do experiments on people or animals, it seems ok to do them on clones.

- **Opposition**

Though some people support genetic engineering, many oppose. People also believe that we should enjoy an inherent, natural right to be free of genetic manipulation in any form.

Dixie Saunders

Genetics & Society

Our public looks at genetics at many different views. We have people who approve of genetic testing. This is two thirds of our society. These people want their children to be free of a serious genetic disease. Yet some people in our society can not afford the testing of genetics. There is another point to genetics also, the people who are against genetics. 70% of the public disagree with the genetic testing. This causes controversy between our government and the scientist studying genetics.

Nealy Smith



Responses to Genetic Engineering

Engineering means altering the genes in a living organism to produce a Genetically Modified Organism (GMO) with a new genotype. Various kinds of genetic modification are possible: inserting a foreign gene from one species into another, forming a transgenic organism; altering an existing gene so that its product is changed; or changing gene expression so that it is translated more often or not at all. Some people believe in this process while others disagree.

Genetic engineering is very controversial. Some say that it could greatly benefit mankind or could, eventually destroy it. Most people either have 2 opinions: Playing God or Researching Medical information to improve the future.

Some people believe that when you find out if your child has a certain disease by genetically testing it, you are doing God's job. They believe that you would be deciding the future for you child, instead of letting him/her decide their own destiny. For instance, if someone finds out if their child will be mentally retarded, they may have an abortion or sign up for adoption.

Alex Ellis

Genetics Puzzler



d w c e f a c g t c q p c s q
f z n c p i f s n w e o f e j
t e o g t z i v t i n l o n d
g o x e r t u e j t n o l e n
o b n m n b a l r h j o u g a
e e o e q z o o u i c d l u i
g i i w j s v m h z j s g c j
s c k d e e z b a r s j a l i
s u z n r u t e a l r d k r c
n p o s t u l m b j i f z o f
i l i e n g i n e r i n g k v
c a y g o l o n h c e t o i b
l w l h v f k o y j v v t n a
w e g t v a j t c l k c e n x
x y p r q x n k z j w m r t p

biotechnology
cell
clones
cloning
controversial
dna
engineering
gene
genes
genetic
lab
scientist

Alex Ellis

Imagine What We Can Do For YOU



Nealy & Co. Labs

CARTOON CORNER



Hey onion, you stink and make my eyes water so go away.



What are you talking about, the only thing you're good for is being a nose on a snowman.



Why do we fight like this?



It comes with being a genetically altered vegetable. Didn't you read the contract?



No. I didn't have eyes, I was just a normal carrot.



This was a bad idea.