



## GENETIC ENGINEERING

### Glossary

genetic engineering	to extract	to enable
to develop	to suit	to work out
to turn into	to treat	to open the way
to support	to allow	to produce
to repair	to tinker	to mold
to draw	South Korean team	human embryos
stem cells	a milestone	medical research
scientists	plants	their means
treasure trove	the deepest mysteries	researchers
human replacement tissue	diseases	treatment
diabetes	geneticists	therapeutic cloning
for replacement parts	damaged organs	heart muscle
enemies	all sorts of abuse	a risk
crackpots	a line	successfully
indeed	no matter how small	wide open
to their liking		

And now a dialogue between Wentworth and Sarah...

- Sarah: I heard on the radio today that a South Korean team has cloned human embryos and successfully extracted stem cells from one of them.
- Wentworth: Yes I heard it too. What the South Koreans did is a milestone in genetic medical research. Genetic engineers enable scientists to develop animals and plants to suit their needs. Stem cells are a treasure trove of information on the deepest mysteries of human development.
- Sarah: Researchers must still work on how to turn stem cells into human replacement tissue needed to treat diseases. Stem cell research opens the way for treatment for diseases such as diabetes, Parkinson's and Alzheimer's.
- Wentworth: Indeed. Many geneticists support therapeutic cloning, which could allow them to produce replacement part for damaged organs, like repair damaged heart muscle.
- Sarah: For the enemies of therapeutic cloning, an embryo, no matter how smart, is a life that must be respected. For some, tinkering with human embryos leaves the door wide open to all sorts of abuses.
- Wentworth: Of course, there is always a risk that crackpots of all kinds may use genetic engineering to mold human beings to their liking. We must definitely draw a line somewhere.