



Affordable Dog Cloning

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\$50,000

That's the current market price to clone your beloved dog

Cloning Process

- Take cells from pet tissue
- Extract the DNA from the cell
- Retrieve donor unfertilized egg
- Enucleate the egg (remove the donor DNA-containing nucleus)
- Transfer DNA-containing nucleus from somatic cell into the egg
- Allow egg to develop into an embryo in a test tube
- Implant embryo into the uterus of surrogate dog-mother

Costs

- Veterinary process
- Lab process
- Finding egg donors
- Finding surrogates
- Average success rate of 20%



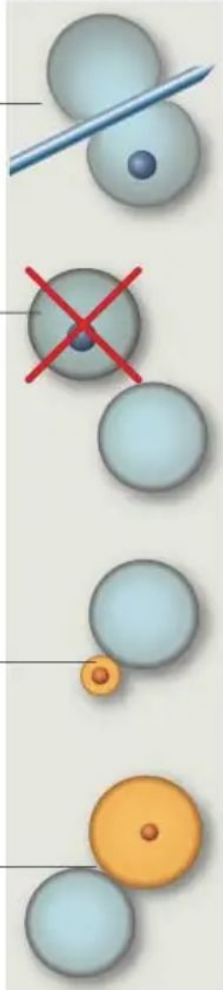
Fusing half-eggs with a cell creates an embryo

Eggs are cut in half

Halves with nucleus
are discarded

Empty half is fused
with cell from
animal to be cloned

Adding another half
yields a complete
embryo



Improved Costs

- Fusing half eggs method
 - Decrease lab costs
- Use stem cells from fat tissue
 - 11x better success ratio
 - Decrease vet costs
- Increasing success rate with less eggs, less surrogates

A Word on Ethics

- No medical benefit to a cloned dog
 - Most cloned animals live shorter lives
- Solely for the emotional and mental soothing
 - But can that same affection really be resurrected?
- Clones are identical, but not in quirks or personalities
- In the US, there are >3 million dogs waiting to get adopted
 - Are female dogs willing egg donors / surrogates?
 - Just as bad as dog breeders
- Where does cheap mammal cloning lead?