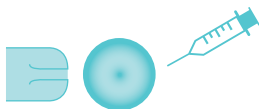


# MAKING A MAMMOTH

Reviving the woolly mammoth will be difficult, but here are two possible ways. The first requires incredible luck to find a mammoth cell with a viable nucleus. The second modifies the existing Asian elephant's genome to resemble the mammoth's.

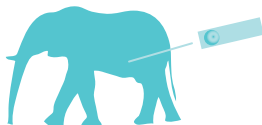
## CLOWNING WITH A VIABLE NUCLEUS



1. Extract egg from Asian elephant donor and swap in nucleus from mammoth cell.



2. Electrically shock the egg to stimulate cell division and create an embryo.

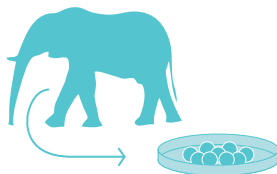


3. Implant embryo into surrogate mother elephant's uterus.



4. Asian elephant eventually gives birth to cloned baby mammoth.

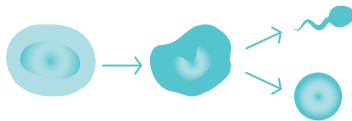
## BUILDING A HYBRID WITH GENOME ENGINEERING



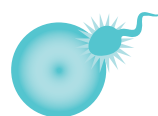
1. Cultivate Asian elephant stem cells, since the elephant is the woolly mammoth's closest living relative.



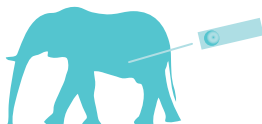
2. Modify the Asian elephant genome to substitute mammoth genes using genome-engineering tools.



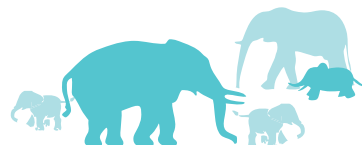
3. Convert modified stem cells into germ cells, which form the modified elephant sperm and egg.



4. Fertilise the egg with the sperm, creating an embryo of a mammoth-elephant hybrid.



5. Implant embryo into surrogate mother elephant's uterus.



6. After hybrid baby is born, see if it has mammoth traits like cold-resistance. Make additional changes if needed to create herd of mammoth-elephant hybrids.

