

A better understanding of how to help two men have children without women

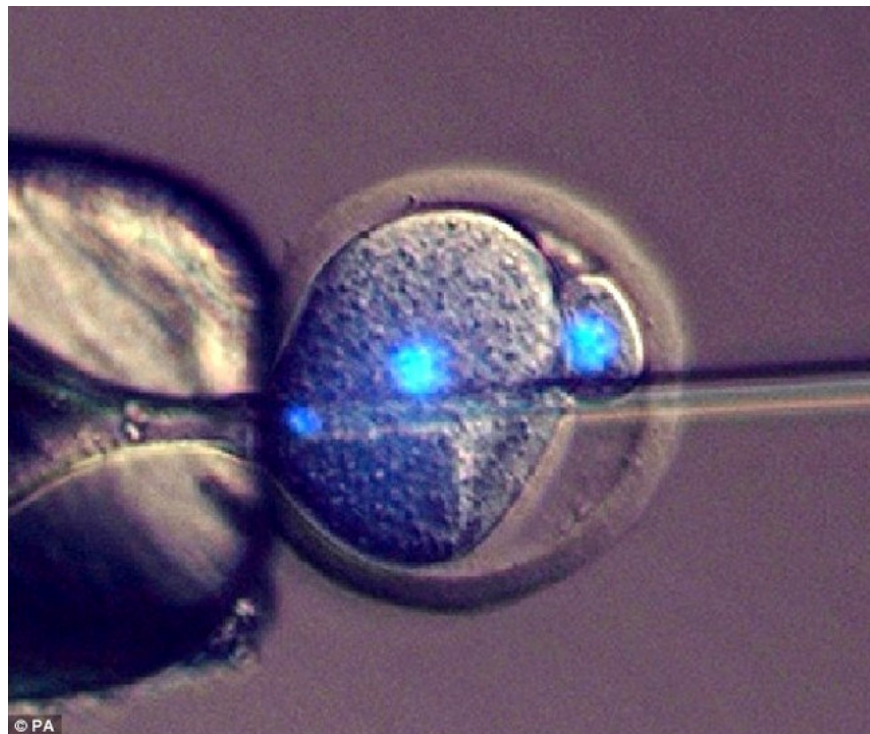
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Recently, scientists have successfully published healthy mice using **sperm and special form cells that are not eggs** . This shocked the medical world and the network community. However, can this approach do research on people in the future, and can births from two biological parents be possible?

How does the experiment of creating baby mice without regular eggs take place?

The first thing to say in this experiment is that sperm is combined with special cell types created by treating eggs with certain chemicals.

Normally, eggs divide only when fertilized. Therefore, the researchers conducted chemical treatment so that the eggs could divide to create **daughter cells** . This daughter cell is completely different from the original egg cell. They can divide to form new cell types, like other cells in the body.



Inject sperm into straight embryos

Researchers have used this newly created daughter cell to fertilize sperm to produce 140 "embryos" that contain both chromosomes of both parents like normal embryos. 30 multicellular embryos have developed into completely healthy and fertile baby mice.

Can this technique be applied to other cells?

The special cells they produce from eggs are chemically treated unlike normal body cells. These cells are much larger and may not be able to reprogram the genetic traits of genes to become embryos.

Another problem is that a man's cell has two **sets of chromosomes** , but gamete cells (such as sperm or eggs) are only allowed to contain one set of chromosomes if they want to create a healthy embryo. " *There is a bunch of unknown unknowns* , " Perry said.



It's too early to think about dream kids

What is interesting about the research results?

The success of the research opens up hope for babies born with **fertilization without eggs** . Ie using a man's sperm and another type of cell derived from a second man.

Dr. Tony Perry, of the Department of Molecular Embryology at Bath University, said the study was only a theory. The use of human cells in this way is far away: " *All of this is just a guess and nothing in it can be done right away, it can never be done.* "

But from this success we can affirm that there is more than one way to have a healthy embryo. Further research on this process may be able to provide new **infertility** insights and **treatments** .

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