

# Cambridge Breakthrough for stem cell science.

*Cambridge Company Cell Guidance Systems announced today that it has licensed ETS-embryo technology, developed by researchers at Cambridge University,*

CAMBRIDGE, UNITED KINGDOM, March 2, 2017 /EINPresswire.com/ -- Cambridge Company Cell Guidance Systems announced today that it has licensed a new technology, developed by researchers at Cambridge University, which for the first time makes it possible to simulate major events in mouse embryo development without the use of eggs and sperm.

In ground breaking research that was published in the 2nd March issue of Science, Prof Magdalena Zernicka-Goetz and her colleagues studied trophoblast and embryonic stem cells (ESCs), two of the earliest cell types to develop from the fertilized egg. They found that simply growing these two cells together leads to the development of structures termed ETS-Embryos, which strongly resemble mouse embryos in the days immediately following their implantation into the womb. Key to this success was development of "ETS-Embryo Medium" to culture the two stem cell types.

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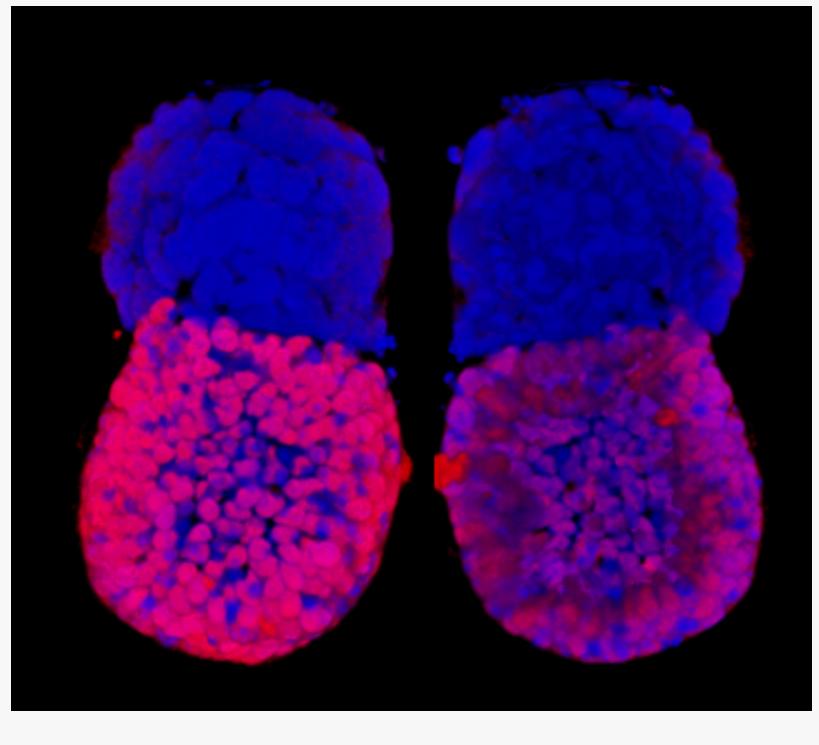
*Michael Jones*

Since in ETS-embryos all of the genetic identity of the embryonic tissues is derived from the ESC, any embryo produced is a clone of that cell. How far ETS-embryos can develop remains still to be determined. ETS-Embryos are set to transform the fields of embryology and stem cell science. Potential future applications include improving the efficiency of generation of transgenic animals for research and novel ways to make tissues and organs for stem cell research.

Cell Guidance Systems has agreed an exclusive license to the technology. Dr Michael Jones, CEO of Cell Guidance Systems, commented “We are very happy to be working with Prof Zernicka Goetz’s lab and to be involved in this ground-breaking research. This is arguably the most significant breakthrough in stem cell science for a decade and these discoveries provide key insights into mammalian development. The potential benefits of the technology for basic research and the development of new medical therapies is very exciting.”

## About Cell Guidance Systems

Cell Guidance Systems is a biotechnology company based in Cambridge, UK that is leading the way in the development of technologies for cell based research and regenerative medicine. The company



collaborates in the development of new technologies with academics and clinicians at universities and hospitals in the UK and internationally.

Michael Jones  
Cell Guidance Systems  
01223967316  
[email us here](#)

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