

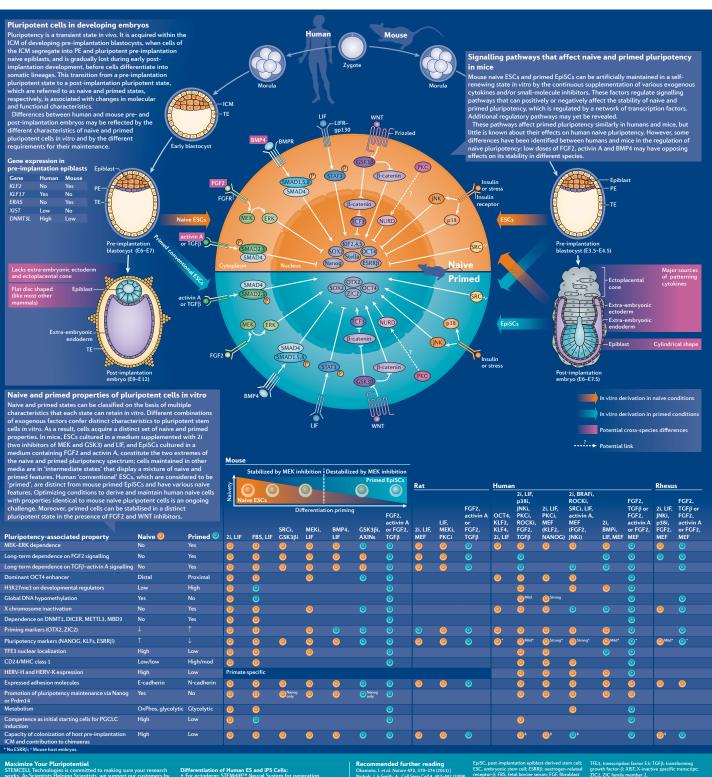
## Stem cell states: naive to primed pluripotency

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Pluripotency refers to the ability of cells to differentiate into all cell types of the three embryonic germ layers. Deriving and maintaining pluripotent stem cells thus offers the possibility of generating valuable sources of cells for tissue replacement therapies and for developmental

studies. Pluripotent cells are found during a short window of time in developing embryos. They progress from a naive ('ground') state to a primed state before lineage commitment. Different culture conditions are being developed to maintain or induce these states in vitro.





cell (hPSC)

nt Stem (iPS) Cells d Pluri e of Human Embryonic Stem (ES) and iPS Cells

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