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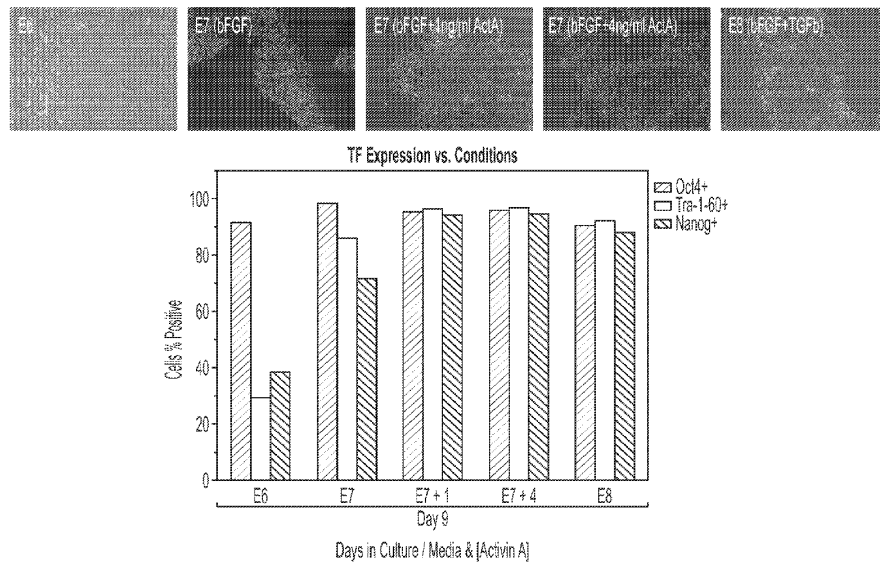


FIG. 1

(57) Abstract: Methods of culturing embryonic stem cells, induced pluripotent stem cells and/or differentiated cells in culture medium comprising activin are described. In one aspect, the disclosure features a pluripotent human stem cell, wherein the stem cell comprises: (i) a genomic edit that results in loss of function of Cytokine Inducible SH2 Containing Protein (CISH) and (ii) a genomic edit that results in a loss of function of an agonist of the TGF beta signaling pathway, or a genomic edit that results in a loss of function of adenosine A2a receptor.

[Continued on next page]

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