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(54) Title: REPROGRAMMING A CELL BY INDUCING A PLURIPOTENT GENE THROUGH USE OF A SMALL MOLECULE MODULATOR

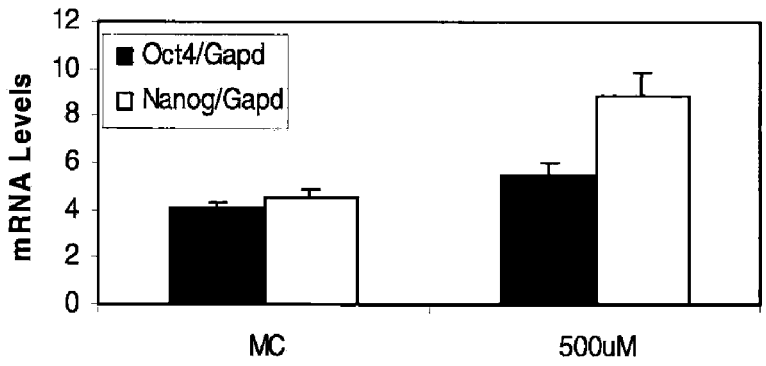


FIG. 1

(57) Abstract: The invention relate to methods, compositions, and kits for reprogramming a cell. In one embodiment, the invention relates to a method comprising inducing the expression of at least one gene that contributes to a cell being pluripotent or multipotent. In yet another embodiment, the method comprises exposing a cell to a small molecule modulator that induces the expression of at least one gene that contributes to a cell being pluripotent or multipotent. In yet another embodiment, the invention relates to a reprogrammed cell and an enriched population of reprogrammed cells that can have characteristics of an ES-like cell can be re- or trans-differentiated into various differentiated cell types.

WO 2009/126655 A3