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(54) Title: METHODS FOR REPROGRAMMING CELLS AND USES THEREOF

(57) Abstract: Described herein are methods for cell dedifferentiation, transformation and eukaryotic cell reprogramming Also descried are cells, cell lines, and tissues that can be transplanted in a patient after steps of *in vitro* dedifferentiation and *in vitro* reprogramming In particular embodiments the cells are Stem-Like Cells (SLCs), including Neural Stem-Like Cells (NSLCs) Also described are methods for generating these cells from human somatic cells and other types of cells Also provided are compositions and methods of using of the cells so generated in human therapy and in other areas.