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(54) Title: USE OF NUCLEAR MATERIAL TO THERAPEUTICALLY REPROGRAM DIFFERENTIATED CELLS

(57) Abstract: Methods are provided for therapeutically reprogramming differentiated cells with nuclear extracts from pluripotent stem cells to generate a pluripotent epigenetic state in the differentiated cells. Additionally, therapeutically programmed cells for therapeutic use in patients are provided. Therapeutically programmed cells are stem cells which have been matured such that they represent either a more differentiated state or a less differentiated state after contact with stimulatory factors.

WO 2006/084229 A3