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(54) Title: COMPOSITIONS COMPRISING HUMAN EMBRYONIC STEM CELLS AND THEIR DERIVATIVES, METHODS OF USE, AND METHODS OF PREPARATION

(57) Abstract: The present invention relates to a pharmaceutical composition comprising of preparations of human embryonic stem (hES) cells and their derivatives and methods for their transplantation into the human body, wherein transplantation results in the clinical reversal of symptoms, cure, stabilization or arrest of degeneration of a wide variety of presently incurable and terminal medical conditions, diseases and disorders. The invention further relates to novel processes of preparing novel stem cell lines which are free of animal products, feeder cells, growth factors, leukaemia inhibitory factor, supplementary mineral combinations, amino acid supplements, vitamin supplements, fibroblast growth factor, membrane associated steel factor, soluble steel factor and conditioned media. This invention further relates to the isolation, culture, maintenance, expansion, differentiation, storage, and preservation of such stem cells.



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