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(54) **Title:** CULTURE SYSTEM AND METHOD FOR PROPAGATION OF HUMAN BLASTOCYST-DERIVED STEM CELLS

(57) **Abstract:** The present invention relates to a culture system for and a method for propagation of human blastocyst-derived stem cells (hBS cells) upon enzymatic dissociation into a single cell suspension. The culture system for propagation of human blastocyst-derived stem (hBS) cells comprises i) human feeder cells at a density of at least 50,000 cells/cm^2, ii) one or more dissociation agents for dissociation of hBS cell colonies into a single cell suspension, and iii) a supportive culture medium, which culture system makes it possible to propagate hBS cells by dissociation of hBS cell colonies into a single cell suspension at each consecutive passage for an extended time period, while maintaining the significant characteristics of hBS cells.

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