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(54) Title: METHODS OF DERIVATION AND PROPAGATION OF UNDIFFERENTIATED HUMAN EMBRYONIC STEM (HES) CELLS ON FEEDER-FREE MATRICES AND HUMAN FEEDER LAYERS

(57) Abstract: The present invention relates to the field of stem cell culture, in particular undifferentiated stem cell culture and to methods for derivation and propagation of such cells. More particularly, the invention relates to derivation and propagation of undifferentiated HES cells on human feeder layers and/or in the absence of a feeder layer.The human feeder layers may be selected from the group including human fetal muscle (HFM), human fetal skin (HFS), human adult fallopian tubal (HAFT) fibroblasts and human adult skin cells. They may be cultured in the presence of a suitable medium selected from the group including Human Embyonic Stem Cell (HES), Knockout (KO), or Human Feeder (HF) medium supplemented with or without human serum.