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(54) Title: METHODS FOR PREPARING HUMAN MELANOCYTES FROM HUMAN PLURIPOTENT STEM CELLS

(57) Abstract: The invention relates to an ex vivo method for obtaining a population of human melanocytes derived from human pluripotent stem cells comprising the step consisting of co-culturing human pluripotent stem cells with cells that support ectodermal differentiation in the presence of an agent that stimulates epidermal induction and an agent that stimulates terminal differentiation of keratinocytes. The invention also relates to human melanocytes obtainable by said method and to uses thereof in cell therapy and in screening assays.