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(54) **Title**: METHODS AND COMPOSITIONS FOR IN VITRO AND IN VIVO CHONDROGENESIS

(57) **Abstract**: Aspects of the present invention include methods and compositions related to the production, identification and use of embryonic progenitor cell lines that are capable of undergoing chondrogenesis. A number of exemplary chondrogenic cell lines derived from primordial stem cells are disclosed. The chondrogenic cell lines described herein are robust, can expand for >40 passages, and have site-specific purity, thus providing for compositions and methods of producing diverse cartilage types with unique molecular compositions for use in research and therapy.