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(54) Title: ENGINEERING THREE-DIMENSIONAL TISSUE STRUCTURES USING DIFFERENTIATING EMBRYONIC STEM CELLS



FIG. 1A



FIG. 1B

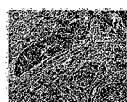


FIG. 1C



FIG. 1D



FIG. 1E

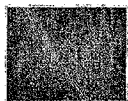


FIG. 1F

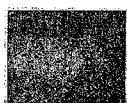


FIG. 1G

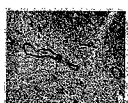


FIG. 1H

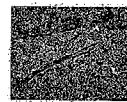


FIG. 1I



FIG. 1J



FIG. 1K



FIG. 1L



FIG. 1M

(57) Abstract: A method of producing a tissue engineering construct. The method includes providing a population of embryonic stem cells, seeding the embryonic stem cells on a cell support matrix, and exposing the embryonic stem cells to at least one agent selected to promote differentiation of the stem cells along a predetermined cell lineage or into a specific cell type. The step of exposing may be performed before or after the step of seeding.



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