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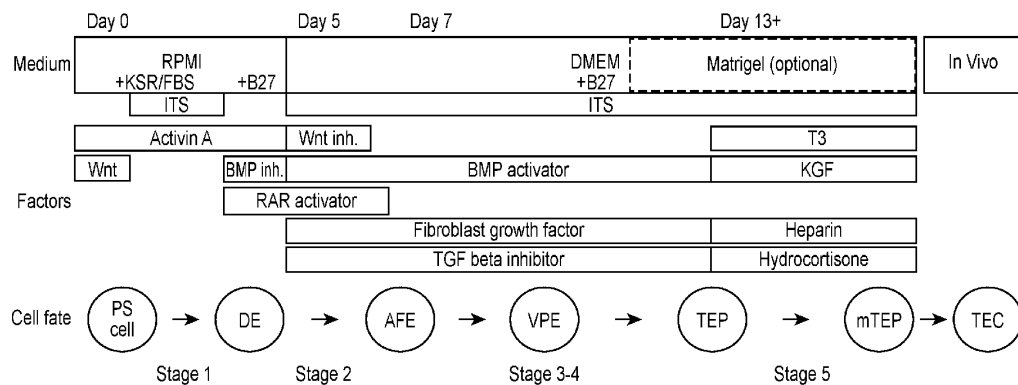


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(54) **Title:** METHODS FOR GENERATING THYMIC CELLS IN VITRO

FIG. 8



(57) **Abstract:** The present description provides improved methods for generating thymic epithelial progenitor (TEP) cells from pluripotent stem (PS) cells *in vitro*. Also provided are isolated *in vitro* cell populations, compositions, and systems comprising TEP cells produced *in vitro*. Compositions and systems of cell populations of thymic epithelial cells and subpopulations thereof, as well as cells formed during different stages of differentiation of PS cells into thymic epithelial cells and subpopulations thereof are provided.

[Continued on next page]

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