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(54) Title: METHODS FOR GENERATING HEMATOPOIETIC STEM CELLS

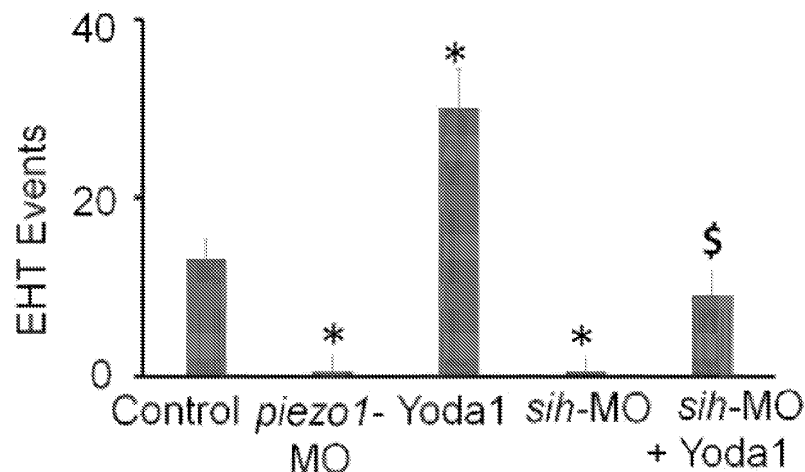


FIG. 1A

(57) Abstract: In the various aspects and embodiments, this disclosure provides genetic, pharmacological, and mechanical stimuli for transitioning endothelial cells to hemogenic endothelial (HE) cells, and for transitioning HE cells to HSCs, including HSCs that comprise a significant level of LT-HSCs. The disclosure further provides methods for expanding HSCs using the genetic, pharmacological, and mechanical stimuli.



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