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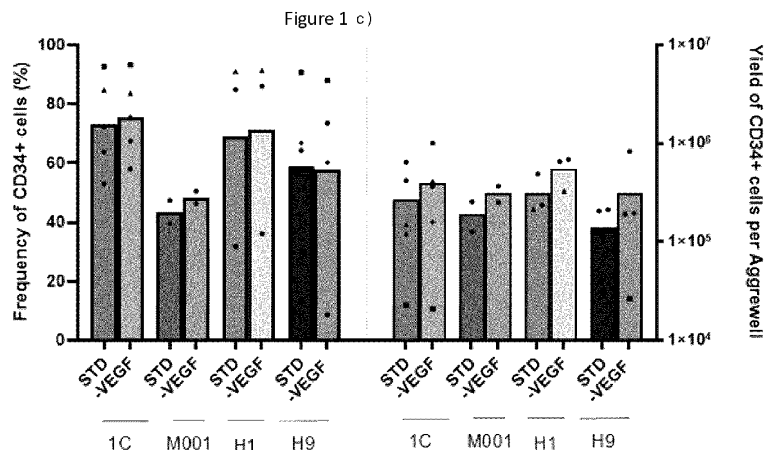
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(54) **Title:** SYSTEMS AND METHODS FOR DIFFERENTIATING HEMATOPOIETIC CELLS



(57) **Abstract:** Disclosed are media, methods, systems and kits for differentiating hematopoietic progenitor cells from a population of early mesoderm cells under conditions that exclude any combination of certain exogenously added agonists of growth factor signaling. The population of early mesoderm cells may be derived from pluripotent stem cells, and the hematopoietic progenitor cells differentiated under the disclosed conditions are multipotent. The culture conditions disclosure herein may form serum-free workflows and/or workflows free of stroma and/or feeder cells.



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